

_DRIVING THE FUTURE OF METAL CUTTING.

Product Innovations catalogue



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A compendium of expertise in machining

The Walter General Catalogue 2017 contains the entire standard range of our competence brands Walter, Walter Titex and Walter Prototyp. It is supplemented regularly with the latest Product Innovations catalogue.

New: Product Innovations catalogue 18-1



General Catalogue 2017

+



Product Innovations catalogue 18-1

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A – Turning

ISO turning – A1

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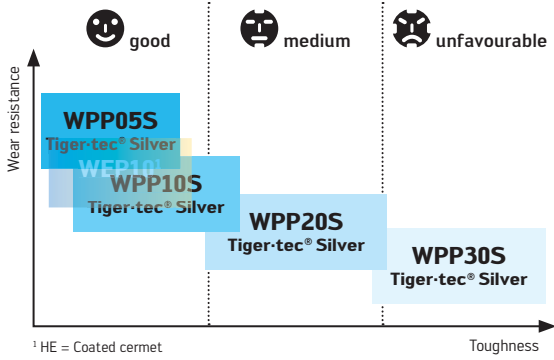
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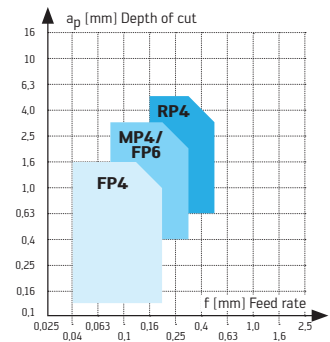
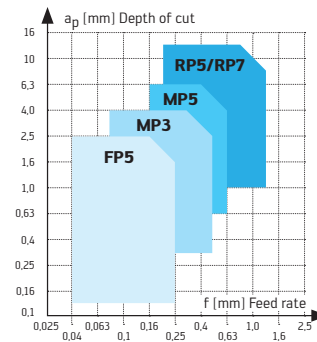
Product range overview of indexable inserts for ISO turning: Tiger-tec® Silver grades and geometries

Machining steel ISO P



Negative basic shape

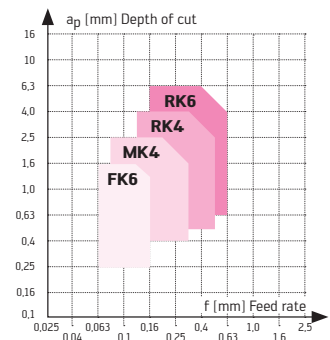
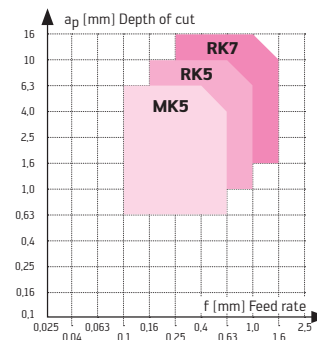
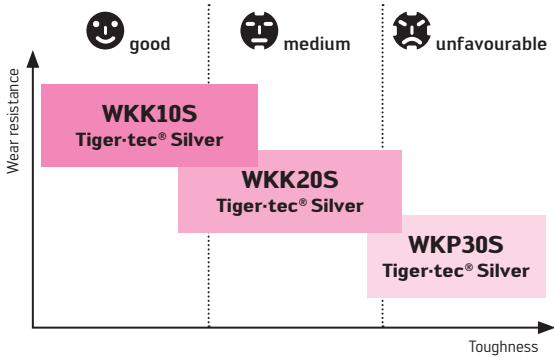
Positive basic shape



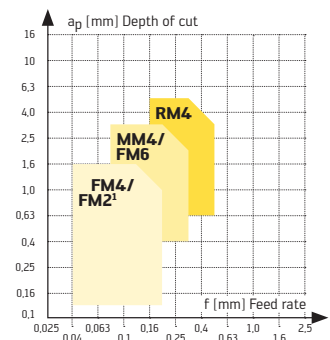
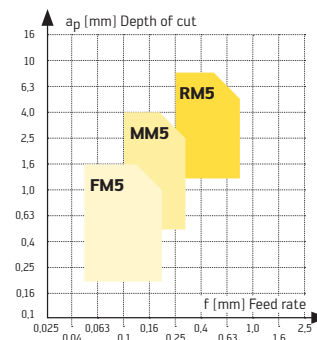
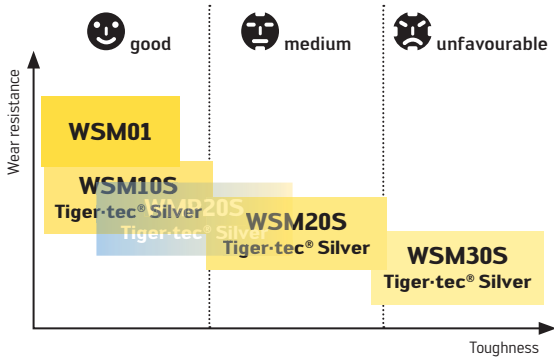
RP5: For universal machining
RP7: For interrupted cuts,
cast skin/forged skin

MP4: For universal machining, copy turning
FP6: For semi-finishing operations

Cast iron machining ISO K

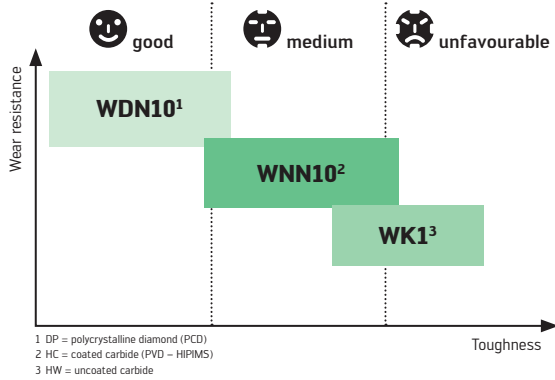


Stainless steel ISO M



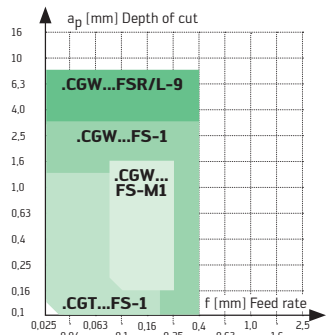
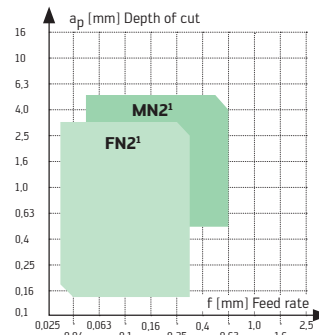
MM4: For universal machining, copy turning
FM6: For semi-finishing operations
¹ Circumference fully ground

NF metals ISO N



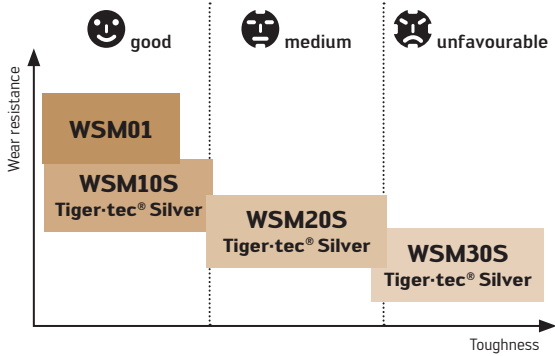
Positive basic shape Carbide

Positive basic shape PCD



¹ Circumference fully ground

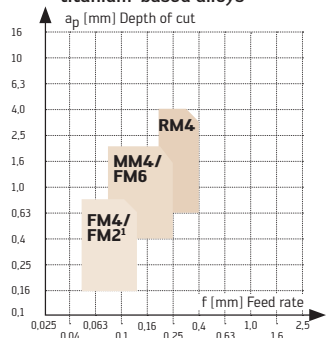
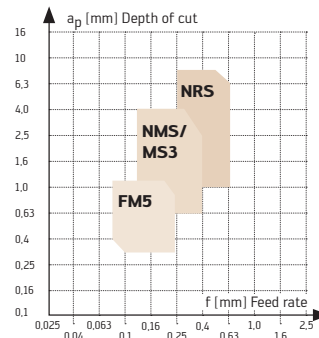
High-temperature alloys and titanium alloys ISO S



Negative basic shape

Positive basic shape

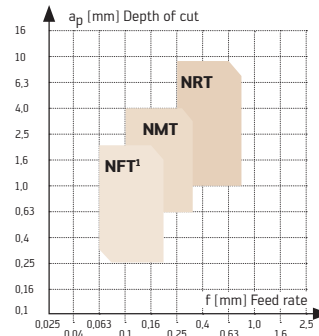
Ni, Co and Fe-based alloys



NMS: For universal machining
 MS3: For low cutting pressure

MM4: For universal machining, copy turning
 FM6: For semi-finishing operations
 ¹ Circumference fully ground

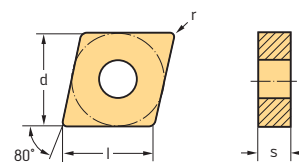
Titanium-based alloys



¹ Circumference fully ground

Negative rhombic 80° CNMG / CNGG / CNMA

Tiger-tec® Silver



Indexable inserts

	Designation	r mm	f mm	a _p mm	P						M				K			S					
					HC						HC				HC			HC					
					WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S	WSM30S	WS10
	CNMG120404-NF	0,4	0,10–0,40	0,4–2,0	☉		☉	☉							☉							☉	
	CNMG120408-NF	0,8	0,15–0,55	0,5–3,0	☉		☉	☉							☉							☉	
	CNMG120404-NFT	0,4	0,08–0,17	0,4–1,5																		☉	☉
	CNMG120408-NFT	0,8	0,10–0,20	0,5–2,0																		☉	☉
	CNMG120402-FM5	0,2	0,03–0,10	0,1–1,0																		☉	☉
	CNMG120404-FM5	0,4	0,05–0,15	0,2–1,5																		☉	☉
	CNMG120408-FM5	0,8	0,07–0,20	0,4–1,5																		☉	☉
	CNMG120412-FM5	1,2	0,10–0,25	0,5–2,0																		☉	☉
	CNMG120408-NM	0,8	0,20–0,55	0,8–3,0			☉	☉								☉	☉					☉	
	CNMG120412-NM	1,2	0,25–0,70	1,5–4,0			☉	☉								☉	☉					☉	
	CNMG120404-MS3	0,4	0,12–0,25	0,6–3,0									☉	☉	☉	☉					☉	☉	☉
	CNMG120408-MS3	0,8	0,15–0,30	0,8–3,0			☉	☉					☉	☉	☉	☉					☉	☉	☉
	CNGG120401-MS3	0,1	0,02–0,06	0,2–2,5									☉								☉		
	CNGG120402-MS3	0,2	0,05–0,12	0,4–2,5									☉								☉		
	CNGG120404-MS3	0,4	0,10–0,25	0,6–3,0									☉								☉		
	CNGG120408-MS3	0,8	0,12–0,30	0,8–3,0									☉								☉		
	CNMG120408-NMT	0,8	0,12–0,30	0,8–4,0																		☉	☉
	CNMG120412-NMT	1,2	0,15–0,32	1,0–4,0																		☉	☉
	CNMG120404-NMS	0,4	0,10–0,24	0,6–2,5									☉	☉	☉	☉					☉	☉	☉
	CNMG120408-NMS	0,8	0,13–0,32	0,8–3,5									☉	☉	☉	☉					☉	☉	☉
	CNMG120412-NMS	1,2	0,16–0,36	1,0–3,5									☉	☉							☉	☉	
	CNMG090304-MP3	0,4	0,06–0,20	0,3–2,2			☉	☉															
	CNMG090308-MP3	0,8	0,10–0,28	0,6–3,0			☉	☉	☉														
	CNMG120404-MP3	0,4	0,08–0,22	0,3–2,5			☉	☉	☉														
	CNMG120408-MP3	0,8	0,12–0,32	0,6–3,2			☉	☉	☉	☉													
	CNMG120412-MP3	1,2	0,16–0,40	0,8–3,5			☉	☉	☉	☉													

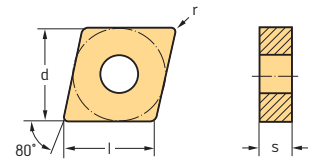
See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

☉ ☉ ☉ / ★ New addition to the product range

Negative rhombic 80° CNMG / CNGG / CNMA

Tiger-tec® Silver

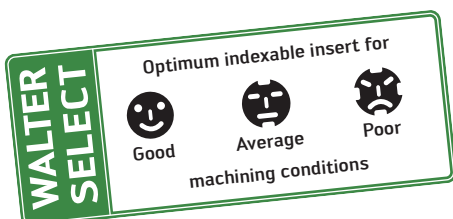


Indexable inserts

Designation	r mm	f mm	a _p mm	P							M				K			S					
				HC							HC				HC			HC					
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S	WSM30S	WS10	
CNMG120404-MM5	0,4	0,10-0,20	0,5-3,0																				
CNMG120408-MM5	0,8	0,15-0,32	0,8-3,0																				
CNMG120412-MM5	1,2	0,15-0,35	0,8-3,5																				
CNMG120416-MM5	1,6	0,15-0,40	1,0-4,0																				
CNMG160608-MM5	0,8	0,15-0,35	0,8-4,5																				
CNMG160612-MM5	1,2	0,18-0,40	0,8-4,5																				
CNMG160616-MM5	1,6	0,20-0,45	1,0-4,5																				
CNMG090308-MK5	0,8	0,10-0,20	0,2-3,0																				
CNMG120404-MK5	0,4	0,16-0,25	0,6-5,0																				
CNMG120408-MK5	0,8	0,25-0,50	0,8-5,0																				
CNMG120412-MK5	1,2	0,30-0,50	1,2-5,0																				
CNMG120416-MK5	1,6	0,35-0,50	1,5-5,0																				
CNMG160608-MK5	0,8	0,25-0,50	0,8-7,0																				
CNMG160612-MK5	1,2	0,30-0,60	1,2-7,0																				
CNMG160616-MK5	1,6	0,35-0,60	1,5-7,0																				
CNMG190612-MK5	1,2	0,30-0,65	1,2-8,0																				
CNMG190616-MK5	1,6	0,35-0,80	1,5-8,0																				
CNMG120408-NRT	0,8	0,18-0,35	1,0-6,0																				
CNMG120412-NRT	1,2	0,20-0,40	1,2-6,0																				
CNMG160612-NRT	1,2	0,28-0,55	1,5-7,5																				
CNMG190616-NRT	1,6	0,35-0,70	2,0-9,0																				
CNMG120408-NRS	0,8	0,16-0,35	1,0-4,0																				
CNMG120412-NRS	1,2	0,18-0,40	1,2-4,0																				
CNMG160612-NRS	1,2	0,21-0,45	1,2-6,5																				
CNMG160616-NRS	1,6	0,23-0,50	1,5-6,5																				
CNMG190608-NRS	0,8	0,20-0,45	1,0-8,0																				
CNMG190612-NRS	1,2	0,23-0,50	1,2-8,5																				
CNMG120408-RM5	0,8	0,20-0,40	1,2-5,0																				
CNMG120412-RM5	1,2	0,25-0,50	1,5-5,0																				
CNMG120416-RM5	1,6	0,30-0,55	2,0-5,0																				
CNMG160608-RM5	0,8	0,22-0,45	1,2-7,0																				
CNMG160612-RM5	1,2	0,25-0,60	1,5-7,0																				
CNMG160616-RM5	1,6	0,30-0,65	2,0-7,0																				
CNMG190612-RM5	1,2	0,25-0,60	1,5-8,0																				
CNMG190616-RM5	1,6	0,30-0,80	2,0-8,0																				

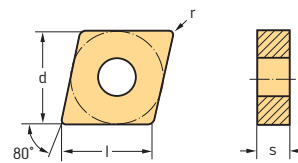
See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide



Negative rhombic 80° CNMG / CNGG / CNMA

Tiger-tec® Silver



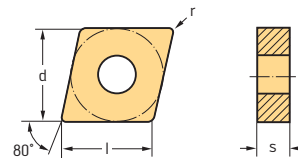
Indexable inserts

Designation	r mm	f mm	a _p mm	P HC						M HC				K HC			S HC			HW										
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CNMA120404-RK5	0,4	0,16-0,25	0,6-5,0												☞	☞														
CNMA120408-RK5	0,8	0,25-0,50	0,8-5,0							☞					☞	☞			☞											
CNMA120412-RK5	1,2	0,30-0,50	1,2-5,0												☞	☞			☞											
CNMA120416-RK5	1,6	0,35-0,70	1,5-5,0												☞	☞			☞											
CNMA160612-RK5	1,2	0,35-0,70	1,2-7,0												☞	☞			☞											
CNMA160616-RK5	1,6	0,35-0,80	1,5-7,0												☞	☞			☞											
CNMA190612-RK5	1,2	0,30-0,65	1,2-8,0												☞	☞			☞											
CNMA190616-RK5	1,6	0,35-0,80	1,5-8,0												☞	☞			☞											
CNMA190624-RK5	2,4	0,40-0,90	2,5-8,0												☞	☞			☞											

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

Negative rhombic 80° CNMG Perform



Indexable inserts

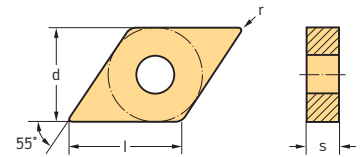
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CNMG120404-FV5	0,4	0,05-0,20	0,2-1,5							☞	☞																			
CNMG120408-FV5	0,8	0,08-0,25	0,4-2,0							☞	☞																			
CNMG120404-MV5	0,4	0,10-0,20	0,5-3,5							☞	☞																			
CNMG120408-MV5	0,8	0,15-0,32	0,8-4,0							☞	☞																			
CNMG120412-MV5	1,2	0,18-0,40	0,8-4,0							☞	☞																			
CNMG160612-MV5	1,2	0,20-0,45	0,8-5,0							☞	☞																			
CNMG120408-RV5	0,8	0,20-0,40	1,0-5,0							☞	☞																			
CNMG120412-RV5	1,2	0,25-0,55	1,0-5,0							☞	☞																			
CNMG160612-RV5	1,2	0,25-0,55	2,0-6,0							☞	☞																			
CNMG160616-RV5	1,6	0,35-0,60	2,0-6,0							☞	☞																			

See the ISO 1832 designation key for dimensions

HC = Coated carbide

★ New addition to the product range

Negative rhombic 55° DNMG / DNGG Tiger-tec® Silver



Indexable inserts

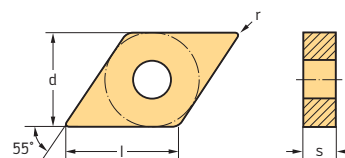
Designation	r mm	f mm	a _p mm	P						M				K			S				HW		
				HC						HC				HC			HC						
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S		WSM30S	
Wiper DNMG110408-NF DNMG150408-NF DNMG150608-NF	0,8	0,15-0,50	0,5-2,0	☺	☺							☺											
	0,8	0,15-0,50	0,5-3,0	☺	☺							☺											
	0,8	0,15-0,50	0,5-3,0	☺	☺							☺											
	DNMG150404-NFT	0,4	0,06-0,16	0,4-1,5								☺										☺	
	DNMG150604-NFT	0,4	0,06-0,16	0,4-1,5								☺										☺	
	DNMG150608-NFT	0,8	0,08-0,19	0,5-2,0								☺										☺	
	DNMG110404-FM5	0,4	0,05-0,15	0,2-1,0								☺	☺					☺	☺				
	DNMG110408-FM5	0,8	0,07-0,20	0,4-1,5								☺	☺					☺	☺				
	DNMG150404-FM5	0,4	0,05-0,15	0,2-1,5								☺	☺					☺	☺				
	DNMG150408-FM5	0,8	0,07-0,20	0,4-1,5								☺	☺					☺	☺				
	DNMG150602-FM5	0,2	0,03-0,10	0,1-1,0								☺	☺					☺	☺				
	DNMG150604-FM5	0,4	0,05-0,15	0,2-1,5								☺	☺					☺	☺				
	DNMG150608-FM5	0,8	0,07-0,20	0,4-1,5								☺	☺					☺	☺				
	DNMG110408-MS3	0,8	0,12-0,30	0,8-2,5								☺	☺	☺				☺	☺			☺	
	DNMG150404-MS3	0,4	0,12-0,25	0,6-2,5								☺	☺					☺	☺				
	DNMG150408-MS3	0,8	0,15-0,30	0,8-2,5			☺					☺	☺	☺				☺	☺			☺	
	DNMG150604-MS3	0,4	0,12-0,25	0,6-2,5								☺	☺					☺	☺				
	DNMG150608-MS3	0,8	0,15-0,30	0,8-2,5				☺				☺	☺	☺				☺	☺			☺	
	DNGG150402-MS3	0,2	0,05-0,12	0,4-2,0								☺							☺				
	DNGG150404-MS3	0,4	0,10-0,25	0,6-2,5								☺							☺				
	DNGG150408-MS3	0,8	0,12-0,30	0,8-2,5								☺							☺				
	DNMG110404-NMT	0,4	0,08-0,22	0,4-2,5									☺									☺	
	DNMG110408-NMT	0,8	0,12-0,28	0,6-3,2									☺									☺	
	DNMG150408-NMT	0,8	0,12-0,28	0,6-4,0									☺									☺	
	DNMG150608-NMT	0,8	0,12-0,28	0,6-4,0								☺						☺				☺	
	DNMG150612-NMT	1,2	0,15-0,30	0,8-4,0									☺									☺	
	DNMG150404-NMS	0,4	0,09-0,22	0,6-2,5									☺	☺					☺	☺			
	DNMG150408-NMS	0,8	0,11-0,30	0,8-3,5									☺	☺					☺	☺			
	DNMG150604-NMS	0,4	0,09-0,22	0,6-2,5								☺	☺					☺	☺				
	DNMG150608-NMS	0,8	0,11-0,30	0,8-3,5								☺	☺	☺				☺	☺			☺	
	DNMG110404-MM5	0,4	0,10-0,18	0,5-2,0									☺	☺					☺	☺		☺	
	DNMG110408-MM5	0,8	0,15-0,25	0,8-3,0									☺	☺					☺	☺		☺	
	DNMG150404-MM5	0,4	0,10-0,18	0,5-2,5									☺	☺					☺	☺		☺	
	DNMG150408-MM5	0,8	0,15-0,25	0,8-3,0									☺	☺					☺	☺		☺	
	DNMG150412-MM5	1,2	0,18-0,30	0,8-3,0										☺								☺	
	DNMG150604-MM5	0,4	0,10-0,18	0,5-2,5									☺	☺					☺	☺		☺	
DNMG150608-MM5	0,8	0,15-0,25	0,8-3,0									☺	☺					☺	☺		☺		
DNMG150612-MM5	1,2	0,18-0,30	0,8-3,0									☺	☺					☺	☺		☺		

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

☺ ☺ ☺ / ★ New addition to the product range

Negative rhombic 55° DNMG / DNGG Tiger-tec® Silver



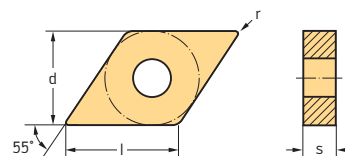
Indexable inserts

Designation	r mm	f mm	a _p mm	P						M				K			S							
				HC						HC				HC			HC							
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S	WSM30S	WS10		
	DNMG150408-NRS	0,8	0,13–0,32	1,0–4,0																				
	DNMG150608-NRS	0,8	0,13–0,32	1,0–4,0																				
	DNMG150612-NRS	1,2	0,15–0,35	1,2–4,0																				
	DNMG110408-RM5	0,8	0,20–0,40	1,2–3,5																				
	DNMG110412-RM5	1,2	0,25–0,50	1,5–3,5																				
	DNMG150408-RM5	0,8	0,20–0,40	1,2–4,0																				
	DNMG150608-RM5	0,8	0,20–0,40	1,2–4,0																				
	DNMG150612-RM5	1,2	0,25–0,50	1,5–4,0																				

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

Negative rhombic 55° DNMG Perform



Indexable inserts

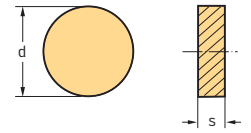
Designation	r mm	f mm	a _p mm	P						M			K			S							
				HC						HC			HC										
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WPV10	WPV20	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM10S	WSM20S	WSM30S			
	DNMG110404-FV5	0,4	0,05–0,20																				
	DNMG110408-FV5	0,8	0,08–0,25	0,4–2,0																			
	DNMG150408-FV5	0,8	0,08–0,25	0,4–2,0																			
	DNMG150604-FV5	0,4	0,05–0,20	0,2–1,5																			
	DNMG150608-FV5	0,8	0,08–0,25	0,4–2,0																			
	DNMG110408-MV5	0,8	0,15–0,32	0,8–3,0																			
	DNMG150408-MV5	0,8	0,15–0,32	0,8–3,5																			
	DNMG150608-MV5	0,8	0,15–0,32	0,8–3,5																			
	DNMG150608-RV5	0,8	0,15–0,40	1,0–4,5																			
	DNMG150612-RV5	1,2	0,20–0,50	1,0–4,5																			

See the ISO 1832 designation key for dimensions



HC = Coated carbide

Negative round
RNMG / RNMA

Tiger-tec® Silver



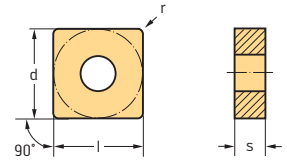
Indexable inserts

Designation	d mm	f mm	a _p mm	P				M				K			S		
				HC				HC				HC			HC	HW	
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM10S	WSM20S	WSM30S
 RNMG120400-RP5	12,7	0,20-0,60	1,2-5,0														
 RNMA120400-RK5	12,7	0,15-0,60	1,2-4,0														









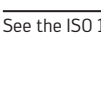



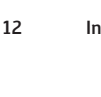
HC = Coated carbide
HW = Uncoated carbide

Negative square SNMG

Tiger-tec® Silver



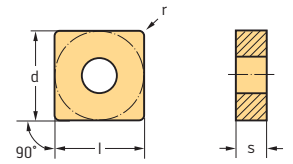
Indexable inserts

Designation	r mm	f mm	a _p mm	P					M			K			S			HW	
				HC					HC			HC			HC				
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM10S	WSM20S		WSM30S
 SNMG120408-FM5	0,8	0,07–0,20	0,4–1,5							☉	☉					☉	☉		
 SNMG120412-FM5	1,2	0,10–0,25	0,5–2,0					☉	☉							☉	☉		
 SNMG120404-MM5	0,4	0,10–0,18	0,5–2,0							☉	☉					☉	☉		
 SNMG120408-MM5	0,8	0,15–0,25	0,8–3,0					☉	☉	☉	☉					☉	☉		☉
 SNMG120412-MM5	1,2	0,18–0,30	0,8–3,5					☉	☉	☉	☉					☉	☉		☉
 SNMG090308-MK5	0,8	0,10–0,20	0,2–3,0									☉	☉						
 SNMG120408-MK5	0,8	0,25–0,50	0,8–5,0									☉	☉						
 SNMG120412-MK5	1,2	0,30–0,50	1,2–5,0									☉	☉	☉					
 SNMG120416-MK5	1,6	0,35–0,50	1,5–5,0									☉	☉						
 SNMG150612-MK5	1,2	0,30–0,60	1,2–7,0									☉	☉						
 SNMG150616-MK5	1,6	0,35–0,60	1,5–7,0									☉	☉						
 SNMG190612-MK5	1,2	0,30–0,65	1,2–8,0									☉	☉						
 SNMG190616-MK5	1,6	0,35–0,80	1,5–8,0									☉	☉						
SNMG120412-NRT	1,2	0,25–0,50	0,8–6,0							☉						☉			☉
SNMG150612-NRT	1,2	0,30–0,60	1,0–7,5							☉						☉			☉
SNMG150616-NRT	1,6	0,35–0,70	1,2–7,5							☉						☉			☉
SNMG190616-NRT	1,6	0,40–0,80	1,5–9,0							☉						☉			☉
SNMG120408-NRS	0,8	0,20–0,40	0,8–5,0							☉	☉	☉				☉	☉	☉	
SNMG120412-NRS	1,2	0,22–0,45	1,0–5,0							☉	☉	☉				☉	☉	☉	
SNMG150616-NRS	1,6	0,24–0,55	1,2–7,0							☉	☉					☉	☉		
SNMG190612-NRS	1,2	0,24–0,55	1,0–9,0							☉	☉					☉	☉		
SNMG190616-NRS	1,6	0,27–0,60	1,2–9,0							☉	☉					☉	☉		
SNMG120408-RM5	0,8	0,20–0,40	1,2–5,0					☉	☉		☉	☉				☉	☉		
SNMG120412-RM5	1,2	0,25–0,50	1,5–5,0					☉	☉		☉	☉				☉	☉		
SNMG120416-RM5	1,6	0,30–0,55	2,0–5,0					☉	☉		☉	☉				☉	☉		
SNMG150612-RM5	1,2	0,25–0,60	1,5–7,0					☉	☉		☉	☉				☉	☉		
SNMG150616-RM5	1,6	0,30–0,55	2,0–7,0					☉	☉		☉	☉				☉	☉		
SNMG190612-RM5	1,2	0,25–0,60	1,5–8,0					☉	☉		☉	☉				☉	☉		
SNMG190616-RM5	1,6	0,30–0,80	2,0–8,0					☉	☉		☉	☉				☉	☉		

See the ISO 1832 designation key for dimensions

 HC = Coated carbide
 HW = Uncoated carbide

Negative square SNMG Perform



Indexable inserts

Designation	r mm	f mm	a _p mm	P						M			K			S		
				HC						HC			HC			HC		
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WPV10	WPV20	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM10S
SNMG120408-MV5	0,8	0,15-0,32	0,8-4,0															



See the ISO 1832 designation key for dimensions

HC = Coated carbide

WALTER SELECT

Optimum indexable insert for

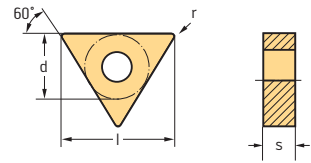
Good

Average








Poor

machining conditions

Negative triangular 60°
TNMG
Tiger-tec® Silver



Indexable inserts

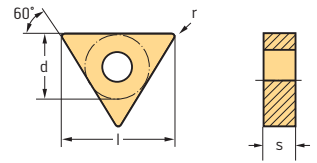
Designation	r mm	f mm	a _p mm	P					M			K			S			HW	
				HC					HC			HC			HC				
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01		WSM10S
 TNMG160404-FM5	0,4	0,05-0,15	0,2-1,0																
TNMG160408-FM5	0,8	0,07-0,20	0,4-1,5																
TNMG160412-FM5	1,2	0,25-0,50	1,5-4,5																
 TNMG160304-MS3	0,4	0,12-0,25	0,6-3,0																
TNMG160308-MS3	0,8	0,15-0,30	0,8-3,0																
TNMG160404-MS3	0,4	0,12-0,25	0,6-3,0																
TNMG160408-MS3	0,8	0,15-0,30	0,8-3,0																
TNMG220404-MS3	0,4	0,12-0,25	0,6-3,0																
TNMG220408-MS3	0,8	0,15-0,30	0,8-3,0																
 TNMG160404-NMT	0,4	0,08-0,20	0,6-3,0																
TNMG160408-NMT	0,8	0,12-0,30	1,0-4,0																
 TNMG160404-NMS	0,4	0,09-0,22	0,6-2,5																
TNMG160408-NMS	0,8	0,11-0,30	0,8-3,5																
 TNMG160404-MM5	0,4	0,10-0,18	0,5-2,0																
TNMG160408-MM5	0,8	0,15-0,25	0,8-3,0																
TNMG160412-MM5	1,2	0,18-0,30	0,8-3,5																
TNMG160416-MM5	1,6	0,20-0,35	1,0-4,0																
 TNMG160412-NRS	1,2	0,25-0,50	1,5-4,5																
 TNMG160408-RM5	0,8	0,20-0,40	1,2-4,0																
TNMG160412-RM5	1,2	0,25-0,50	1,5-4,0																
TNMG220408-RM5	0,8	0,20-0,40	1,2-4,0																
TNMG220412-RM5	1,2	0,25-0,55	1,5-5,0																

See the ISO 1832 designation key for dimensions




HC = Coated carbide
HW = Uncoated carbide

 / ★ New addition to the product range

Negative triangular 60° TNMG Perform



Indexable inserts

Designation	r mm	f mm	a _p mm	P						M			K			S					
				HC						HC			HC			HC					
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WPV10	WPV20	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM10S	WSM20S	WSM30S	
 TNMG160404-FV5 TNMG160408-FV5	0,4	0,05-0,20	0,2-1,5						☺	☹											
	0,8	0,08-0,25	0,4-2,0							☺	☹										
 TNMG160404-MV5 TNMG160408-MV5	0,4	0,10-0,20	0,5-3,5						☺	☹											
	0,8	0,15-0,32	0,8-3,5							☺	☹										
 TNMG160408-RV5	0,8	0,15-0,40	1,0-4,5						☺	☹											

See the ISO 1832 designation key for dimensions

HC = Coated carbide

WALTER SELECT

Optimum indexable insert for

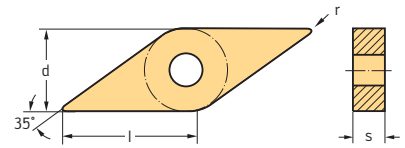
☺
Good

☹
Average

☹
Poor

machining conditions

Negative rhombic 35° VNMG / VNGG Tiger-tec® Silver



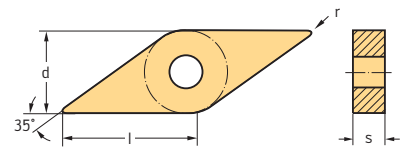
Indexable inserts

Designation	r mm	f mm	a _p mm	P					M				K			S			HW			
				HC					HC				HC			HC						
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S	WSM30S	WS10	
VNMG160404-NFT	0,4	0,05–0,15	0,2–1,5										☉									☉
VNMG160408-NFT	0,8	0,07–0,18	0,3–2,0										☉									☉
VNMG160402-FM5	0,2	0,03–0,10	0,1–1,0									☉	☉						☉	☉		
VNMG160404-FM5	0,4	0,05–0,15	0,2–1,0									☉	☉						☉	☉		
VNMG160408-FM5	0,8	0,07–0,20	0,4–1,5									☉	☉						☉	☉		
VNMG160404-FP5	0,4	0,04–0,22	0,1–1,5	☉	☉																	
VNMG160408-FP5	0,8	0,08–0,25	0,2–2,0	☉	☉																	
VNMG160412-FP5	1,2	0,12–0,28	0,3–2,5	☉	☉																	
VNMG160404-MS3	0,4	0,10–0,20	0,6–2,5				☉			☉	☉								☉	☉		
VNMG160408-MS3	0,8	0,12–0,25	0,8–2,5				☉			☉	☉								☉	☉		
VNGG160401-MS3	0,1	0,02–0,06	0,2–2,0								☉								☉			
VNGG160402-MS3	0,2	0,05–0,12	0,4–2,0								☉								☉			
VNGG160404-MS3	0,4	0,10–0,20	0,6–2,0								☉								☉			
VNMG160404-NMS	0,4	0,08–0,16	0,5–1,5								☉	☉							☉	☉		
VNMG160408-NMS	0,8	0,10–0,22	0,8–2,2								☉	☉							☉	☉		
VNMG160404-MM5	0,4	0,10–0,18	0,5–2,0					☉	☉		☉	☉	☉						☉	☉	☉	
VNMG160408-MM5	0,8	0,15–0,25	0,8–3,0					☉	☉		☉	☉	☉						☉	☉	☉	

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

Negative rhombic 35° VNMG Perform



Indexable inserts

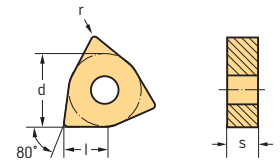
Designation	r mm	f mm	a _p mm	P					M			K			S							
				HC					HC			HC			HC							
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP10	WMP20	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM10S	WSM20S	WSM30S		
VNMG160404-FV5	0,4	0,05–0,20	0,2–1,5						☉	☉												
VNMG160408-FV5	0,8	0,08–0,25	0,4–2,0						☉	☉												

See the ISO 1832 designation key for dimensions

HC = Coated carbide

☉ ☉ ☉ / ★ New addition to the product range

Negative Trigon 80° WNMG Tiger-tec® Silver



Indexable inserts

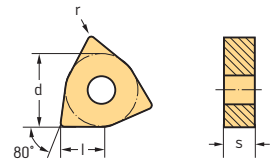
Designation	r mm	f mm	a _p mm	P						M				K			S				HW
				HC						HC				HC			HC				
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S	
 Wiper 	WNMG060404-NF	0,4	0,10-0,40	0,4-2,0	☺	☺					☺							☺			
	WNMG060408-NF	0,8	0,15-0,50	0,5-3,0	☺	☺					☺							☺			
	WNMG080404-NF	0,4	0,20-0,40	0,4-2,0	☺	☺					☺							☺			
	WNMG080408-NF	0,8	0,25-0,55	0,5-3,0	☺	☺					☺							☺			
	WNMG080412-NF	1,2	0,25-0,70	0,8-3,0		☺													☺		
 Wiper 	WNMG060404-FM5	0,4	0,05-0,15	0,2-1,0						☺	☺							☺	☺		
	WNMG060408-FM5	0,8	0,07-0,20	0,4-1,5						☺	☺							☺	☺		
	WNMG080404-FM5	0,4	0,05-0,15	0,2-1,5						☺	☺							☺	☺		
	WNMG080408-FM5	0,8	0,07-0,20	0,4-1,5						☺	☺							☺	☺		
	WNMG080412-FM5	1,2	0,10-0,25	0,5-2,0						☺	☺							☺	☺		
 Wiper 	WNMG060408-NM	0,8	0,20-0,55	0,8-3,0			☺						☺								
	WNMG060412-NM	1,2	0,25-0,55	1,5-4,0			☺						☺								
	WNMG080408-NM	0,8	0,20-0,55	0,8-3,0			☺	☺					☺	☺				☺			
	WNMG080412-NM	1,2	0,25-0,70	1,5-4,0			☺	☺					☺	☺				☺			
 Wiper 	WNMG080404-MS3	0,4	0,12-0,25	0,6-3,0						☺	☺	☺					☺	☺	☺		
	WNMG080408-MS3	0,8	0,15-0,30	0,8-3,0						☺	☺	☺					☺	☺	☺		
 Wiper 	WNMG080408-NMT	0,8	0,12-0,30	0,8-4,0							☺							☺	☺		
	WNMG080412-NMT	1,2	0,15-0,32	1,0-4,0															☺	☺	
 Wiper 	WNMG060408-NMS	0,8	0,10-0,30	0,8-3,0						☺	☺						☺	☺	☺		
	WNMG080404-NMS	0,4	0,10-0,24	0,6-2,5						☺	☺	☺	☺				☺	☺	☺		
	WNMG080408-NMS	0,8	0,13-0,32	0,8-3,5						☺	☺	☺	☺				☺	☺	☺		
 Wiper 	WNMG060404-MM5	0,4	0,10-0,18	0,5-2,0							☺	☺					☺	☺	☺		
	WNMG060408-MM5	0,8	0,15-0,25	0,8-2,5							☺	☺	☺				☺	☺	☺		
	WNMG060412-MM5	1,2	0,18-0,30	0,8-3,0							☺	☺	☺				☺	☺	☺		
	WNMG080404-MM5	0,4	0,10-0,20	0,5-3,0							☺	☺	☺				☺	☺	☺		
	WNMG080408-MM5	0,8	0,15-0,32	0,8-3,0							☺	☺	☺				☺	☺	☺		
	WNMG080412-MM5	1,2	0,15-0,35	0,8-3,5							☺	☺	☺				☺	☺	☺		
	WNMG080416-MM5	1,6	0,15-0,40	1,0-4,0								☺	☺				☺	☺	☺		
	WNMG100608-MM5	0,8	0,18-0,40	0,8-4,5								☺	☺				☺	☺	☺		
WNMG100612-MM5	1,2	0,20-0,45	0,8-4,5								☺	☺				☺	☺	☺			

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

☺ ☺ ☺ / ★ New addition to the product range

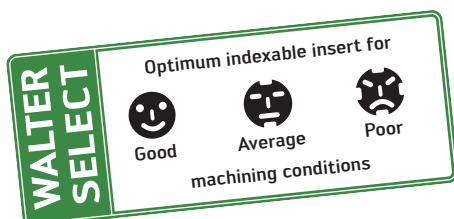
Negative Trigon 80° WNMG Tiger-tec® Silver



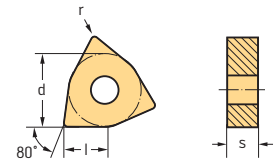
Indexable inserts

Designation	r mm	f mm	a _p mm	P						M				K			S							
				HC						HC				HC			HC							
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S	WSM30S	WS10		
	WNMG060404-MK5	0,4	0,16-0,25	0,6-4,0											☺	☺								
	WNMG060408-MK5	0,8	0,20-0,40	0,8-4,0											☺	☺								
	WNMG060412-MK5	1,2	0,16-0,45	0,6-4,0											☺	☺								
	WNMG080404-MK5	0,4	0,16-0,25	0,6-5,0											☺	☺								
	WNMG080408-MK5	0,8	0,20-0,45	1,2-5,0											☺	☺	☺							
	WNMG080412-MK5	1,2	0,22-0,50	1,5-5,0											☺	☺	☺							
	WNMG080416-MK5	1,6	0,25-0,55	2,0-5,0											☺	☺								
	WNMG100608-MK5	0,8	0,25-0,50	0,8-7,0											☺	☺								
	WNMG100612-MK5	1,2	0,30-0,60	1,2-7,0											☺	☺								
WNMG100616-MK5	1,6	0,35-0,60	1,5-7,0											☺	☺									
	WNMG080408-NRS	0,8	0,16-0,35	1,0-4,0					☹	☹	☹	☹	☹					☹	☹	☹	☹			
	WNMG080412-NRS	1,2	0,18-0,40	1,2-4,0					☹	☹	☹	☹	☹					☹	☹	☹	☹			
	WNMG060408-RM5	0,8	0,20-0,40	1,2-3,5					☹	☹			☹	☹						☹	☹			
	WNMG080408-RM5	0,8	0,20-0,40	1,2-4,5			☹	☹	☹	☹			☹	☹						☹	☹	☹		
	WNMG080412-RM5	1,2	0,25-0,50	1,5-4,5			☹	☹	☹	☹			☹	☹						☹	☹	☹		
	WNMG080408-RP7	0,8	0,16-0,45	1,0-5,0			☹	☹	☹								☹							
	WNMG080412-RP7	1,2	0,20-0,45	1,5-5,0			☹	☹	☹								☹							
	WNMG100608-RP7	0,8	0,30-0,50	0,8-6,0				☹	☹															
	WNMG100612-RP7	1,2	0,35-0,60	1,2-6,0				☹	☹															
	WNMG100616-RP7	1,6	0,40-0,60	1,5-6,0				☹	☹															




See the ISO 1832 designation key for dimensions

 HC = Coated carbide
 HW = Uncoated carbide


Negative Trigon 80° WNMG Perform



Indexable inserts

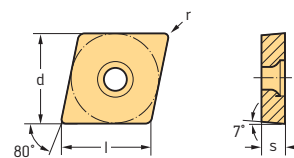
Designation	r mm	f mm	a _p mm	P						M			K			S					
				HC						HC			HC			HC					
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WPV10	WPV20	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM10S	WSM20S	WSM30S	
 WNMG080408-FV5	0,8	0,08-0,25	0,4-2,0						☉	☉											
 WNMG060408-MV5	0,8	0,15-0,32	0,8-3,0						☉	☉											
WNMG080404-MV5	0,4	0,10-0,20	0,5-3,5						☉	☉											
WNMG080408-MV5	0,8	0,15-0,32	0,8-4,0						☉	☉											
WNMG080412-MV5	1,2	0,18-0,40	0,8-4,0						☉	☉											
 WNMG080408-RV5	0,8	0,20-0,40	1,0-5,0						☉	☉											
WNMG080412-RV5	1,2	0,25-0,55	1,0-5,0						☉	☉											

See the ISO 1832 designation key for dimensions

HC = Coated carbide

Positive rhombic 80° CCMT / CCGT

Tiger-tec® Silver



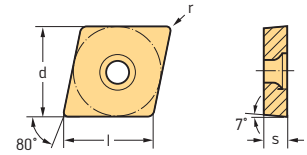
Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P							M				K		N	S					
					HE							HC				HC				HC	HC			
					WEP10	WPP01	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S		
CCMT060204-PF	6,45	0,4	0,05–0,30	0,3–2,0	☺	☺	☺	☺	☺					☺	☺					☺	☺			
CCMT060208-PF	6,45	0,8	0,09–0,35	0,3–2,0		☺	☺	☺						☺							☺			
CCMT09T304-PF	9,67	0,4	0,07–0,30	0,3–3,0	☺	☺	☺							☺	☺						☺	☺		
CCMT09T308-PF	9,67	0,8	0,12–0,45	0,3–3,0	☺	☺	☺							☺	☺						☺	☺		
CCGT060201-FN2	6,45	0,1	0,02–0,06	0,1–1,5																☺				
CCGT060202-FN2	6,45	0,2	0,05–0,12	0,2–2,0																☺				
CCGT060204-FN2	6,45	0,4	0,08–0,25	0,2–2,5																☺				
CCGT09T301-FN2	9,67	0,1	0,02–0,06	0,1–1,5																☺				
CCGT09T302-FN2	9,67	0,2	0,05–0,12	0,2–2,0																☺				
CCGT09T304-FN2	9,67	0,4	0,08–0,25	0,2–2,5																☺				
CCGT09T308-FN2	9,67	0,8	0,10–0,30	0,3–3,0																☺				
CCGT120404-FN2	12,90	0,4	0,08–0,25	0,2–3,0																☺				
CCGT120408-FN2	12,90	0,8	0,10–0,30	0,3–3,5																☺				
CCGT060201-FM2	6,45	0,1	0,02–0,06	0,1–1,5																	☺			
CCGT060202-FM2	6,45	0,2	0,05–0,12	0,2–2,0								☺								☺	☺			
CCGT060204-FM2	6,45	0,4	0,08–0,25	0,2–2,5								☺								☺	☺			
CCGT09T301-FM2	9,67	0,1	0,02–0,06	0,1–1,5																	☺			
CCGT09T302-FM2	9,67	0,2	0,05–0,12	0,2–2,0								☺								☺	☺			
CCGT09T304-FM2	9,67	0,4	0,08–0,25	0,2–2,5								☺	☺							☺	☺			
CCGT09T308-FM2	9,67	0,8	0,10–0,30	0,3–3,0								☺	☺							☺	☺			
CCGT120404-FM2	12,90	0,4	0,08–0,25	0,2–3,0																	☺			
CCGT120408-FM2	12,90	0,8	0,10–0,30	0,3–3,5																	☺			
CCMT060202-FP4	6,45	0,2	0,04–0,12	0,1–1,0	☺		☺	☺																
CCMT060204-FP4	6,45	0,4	0,05–0,16	0,1–1,5	☺		☺	☺																
CCMT060208-FP4	6,45	0,8	0,08–0,20	0,1–1,5			☺	☺																
CCMT09T302-FP4	9,67	0,2	0,04–0,12	0,1–1,0	☺		☺	☺																
CCMT09T304-FP4	9,67	0,4	0,05–0,16	0,1–1,5	☺		☺	☺																
CCMT09T308-FP4	9,67	0,8	0,08–0,20	0,1–1,5	☺		☺	☺																
CCMT120404-FP4	12,90	0,4	0,05–0,16	0,1–1,5			☺	☺																
CCMT120408-FP4	12,90	0,8	0,08–0,20	0,1–1,5			☺	☺																
CCMT060204-FM6	6,45	0,4	0,08–0,25	0,3–1,6																	☺			
CCMT060208-FM6	6,45	0,8	0,12–0,30	0,5–1,6																	☺			
CCMT09T304-FM6	9,67	0,4	0,08–0,25	0,3–2,0																	☺			
CCMT09T308-FM6	9,67	0,8	0,12–0,32	0,5–2,0																	☺			
CCMT120408-FM6	12,90	0,8	0,12–0,32	0,5–2,5																	☺			

See the ISO 1832 designation key for dimensions

HE = Coated cermet
HC = Coated carbide

Positive rhombic 80° CCMT / CCGT Tiger-tec® Silver

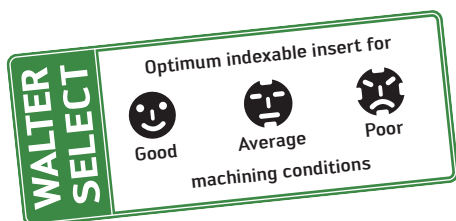


Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P						M				K		N		S					
					HE			HC			HC				HC		HC		HC					
					WEP10	WPP01	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S		
CCGT060201-MN2	6,45	0,1	0,02-0,06	0,5-1,5																				
CCGT060202-MN2	6,45	0,2	0,05-0,12	0,5-2,0									☺					☺	☺					
CCGT060204-MN2	6,45	0,4	0,08-0,25	0,6-3,0									☺					☺	☺					
CCGT09T301-MN2	9,67	0,1	0,02-0,06	0,5-1,5														☺						
CCGT09T302-MN2	9,67	0,2	0,05-0,12	0,5-2,0														☺	☺					
CCGT09T304-MN2	9,67	0,4	0,08-0,25	0,6-4,0														☺	☺					
CCGT09T308-MN2	9,67	0,8	0,10-0,35	0,8-4,0														☺	☺					
CCGT120402-MN2	12,90	0,2	0,05-0,12	0,5-2,0														☺						
CCGT120404-MN2	12,90	0,4	0,08-0,25	0,6-5,0														☺						
CCGT120408-MN2	12,90	0,8	0,10-0,35	0,8-5,0														☺						
CCMT060204-MM4	6,45	0,4	0,08-0,20	0,4-2,0									☺	☺								☺	☺	☺
CCMT060208-MM4	6,45	0,8	0,12-0,25	0,5-2,0									☺	☺								☺	☺	☺
CCMT09T304-MM4	9,67	0,4	0,08-0,25	0,4-3,0									☺	☺								☺	☺	☺
CCMT09T308-MM4	9,67	0,8	0,12-0,32	0,5-3,0									☺	☺								☺	☺	☺
CCMT120404-MM4	12,90	0,4	0,12-0,25	0,4-3,5									☺	☺								☺	☺	☺
CCMT120408-MM4	12,90	0,8	0,12-0,32	0,5-3,5									☺	☺								☺	☺	☺
CCGT060204-MM4	6,45	0,4	0,08-0,20	0,4-2,0									☺	☺								☺	☺	☺
CCGT060208-MM4	6,45	0,8	0,12-0,25	0,5-2,0									☺	☺								☺	☺	☺
CCGT09T304-MM4	9,67	0,4	0,08-0,25	0,4-3,0									☺	☺								☺	☺	☺
CCGT09T308-MM4	9,67	0,8	0,12-0,32	0,5-3,0									☺	☺								☺	☺	☺
CCGT120408-MM4	12,90	0,8	0,12-0,32	0,5-3,5									☺	☺								☺	☺	☺

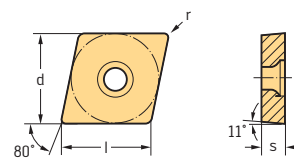
See the ISO 1832 designation key for dimensions

HE = Coated cermet
HC = Coated carbide



Positive rhombic 80° CPMT / CPGT / CPMW

Tiger-tec® Silver



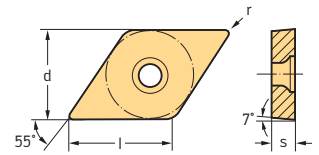
Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P				M				K		S		
					HC				HC				HC		HC		
					WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S
CPMT050204-FM4	5,64	0,4	0,05-0,16	0,1-1,5				☞	☞								☞
CPMT060204-FM4	6,45	0,4	0,05-0,16	0,1-1,5				☞	☞								☞
CPMT09T304-FM4	9,67	0,4	0,05-0,16	0,1-1,5				☞	☞								☞
CPMT09T308-FM4	9,67	0,8	0,08-0,20	0,1-1,5				☞	☞								☞
CPMT050204-FP4	5,64	0,4	0,05-0,16	0,1-1,5	☞												
CPMT060204-FP4	6,45	0,4	0,05-0,16	0,1-1,5	☞												
CPMT09T304-FP4	9,67	0,4	0,05-0,16	0,1-1,5	☞												
CPMT09T308-FP4	9,67	0,8	0,08-0,20	0,1-1,5	☞												
CPMT04T104-MM4	4,84	0,4	0,06-0,16	0,3-1,5							☞						☞
CPMT060204-MM4	6,45	0,4	0,08-0,20	0,4-2,0							☞						☞
CPMT060208-MM4	6,45	0,8	0,12-0,25	0,5-2,0							☞						☞
CPMT09T304-MM4	9,67	0,4	0,08-0,25	0,4-3,0							☞						☞
CPMT09T308-MM4	9,67	0,8	0,12-0,32	0,5-3,0							☞						☞
CPGT050204-MM4	5,64	0,4	0,08-0,20	0,4-1,5							☞						☞
CPGT060201-MM4	6,45	0,1	0,04-0,12	0,1-2,0						☞					☞		
CPGT060202-MM4	6,45	0,2	0,06-0,16	0,2-2,0						☞					☞		
CPGT060204-MM4	6,45	0,4	0,08-0,20	0,4-2,0						☞	☞				☞		☞
CPGT060208-MM4	6,45	0,8	0,12-0,25	0,5-2,0						☞	☞				☞		☞
CPGT09T301-MM4	9,67	0,1	0,06-0,20	0,1-3,0						☞					☞		
CPGT09T304-MM4	9,67	0,4	0,08-0,25	0,4-3,0						☞	☞				☞		☞
CPGT09T308-MM4	9,67	0,8	0,12-0,32	0,5-3,0						☞	☞				☞		☞
CPMT04T104-MP4	4,84	0,4	0,06-0,16	0,3-1,5						☞							
CPMT060204-MP4	6,45	0,4	0,08-0,20	0,4-2,0						☞							
CPMT060208-MP4	6,45	0,8	0,12-0,25	0,5-2,0						☞							
CPMT09T304-MP4	9,67	0,4	0,08-0,25	0,4-3,0						☞							
CPMT09T308-MP4	9,67	0,8	0,12-0,32	0,5-3,0						☞							
CPMW050204-RK6	5,64	0,4	0,12-0,25	0,4-2,5						☞			☞	☞			
CPMW060204-RK6	6,45	0,4	0,12-0,25	0,4-2,5						☞			☞	☞			
CPMW09T304-RK6	9,67	0,4	0,12-0,25	0,4-3,0						☞			☞	☞			
CPMW09T308-RK6	9,67	0,8	0,16-0,35	0,5-4,0						☞			☞	☞			

See the ISO 1832 designation key for dimensions

HC = Coated carbide

Positive rhombic 55°
DCMT / DCGT
Tiger-tec® Silver

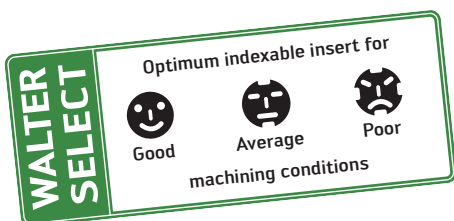


Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	Material																	
					P						M				K		N		S			
					HE	HC					HC				HC	HC	HC					
WEP10	WPP01	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S					
DCMT070204-PF	7,75	0,4	0,05-0,25	0,3-2,0	☺	☺	☺															
	DCMT070208-PF	7,75	0,8	0,05-0,25	0,3-2,0																	
	DCMT11T304-PF	11,63	0,4	0,07-0,30	0,3-3,0	☺	☺	☺														
	DCMT11T308-PF	11,63	0,8	0,12-0,40	0,3-3,0	☺	☺	☺														
DCGT070201-FN2	7,75	0,1	0,02-0,06	0,1-1,5										☺								
	DCGT070202-FN2	7,75	0,2	0,05-0,12	0,2-2,0									☺								
	DCGT070204-FN2	7,75	0,4	0,08-0,25	0,2-2,5									☺								
	DCGT11T301-FN2	11,63	0,1	0,02-0,06	0,1-1,5									☺								
	DCGT11T302-FN2	11,63	0,2	0,05-0,12	0,2-2,0									☺								
	DCGT11T304-FN2	11,63	0,4	0,08-0,25	0,2-2,5									☺								
	DCGT11T308-FN2	11,63	0,8	0,10-0,30	0,3-3,0									☺								
	DCGT070201-FM2	7,75	0,1	0,02-0,06	0,1-1,5																	
DCGT070202-FM2		7,75	0,2	0,05-0,12	0,2-2,0					☹	☹				☹							
DCGT070204-FM2		7,75	0,4	0,08-0,25	0,2-2,5					☹	☹				☹							
DCGT11T301-FM2		11,63	0,1	0,02-0,06	0,1-1,5						☹											
DCGT11T302-FM2		11,63	0,2	0,05-0,12	0,2-2,0					☹	☹				☹							
DCGT11T304-FM2		11,63	0,4	0,08-0,25	0,2-2,5					☹	☹				☹	☹						
DCGT11T308-FM2		11,63	0,8	0,10-0,30	0,3-3,0					☹	☹				☹	☹						
DCMT070202-FP4		7,75	0,2	0,04-0,12	0,1-1,0	☹	☹	☹														
	DCMT070204-FP4	7,75	0,4	0,05-0,16	0,1-1,5	☹	☹	☹														
	DCMT070208-FP4	7,75	0,8	0,08-0,20	0,1-1,5																	
	DCMT11T302-FP4	11,63	0,2	0,04-0,12	0,1-1,0	☹	☹	☹														
	DCMT11T304-FP4	11,63	0,4	0,05-0,16	0,1-1,5	☹	☹	☹														
	DCMT11T308-FP4	11,63	0,8	0,08-0,20	0,1-1,5	☹	☹	☹														
DCMT070204-FM6	7,75	0,4	0,08-0,25	0,3-1,6																		
	DCMT11T304-FM6	11,63	0,4	0,08-0,25	0,3-2,0																	
	DCMT11T308-FM6	11,63	0,8	0,12-0,32	0,6-2,0																	
DCMT11T304-PM	11,63	0,4	0,12-0,40	0,5-4,0			☹	☹														
	DCMT11T308-PM	11,63	0,8	0,15-0,50	0,5-4,0			☹	☹													
DCGT070201-MN2	7,75	0,1	0,02-0,06	0,5-1,5																		
	DCGT070202-MN2	7,75	0,2	0,05-0,12	0,5-2,0																	
	DCGT070204-MN2	7,75	0,4	0,08-0,25	0,6-2,5																	
	DCGT11T301-MN2	11,63	0,1	0,02-0,06	0,5-1,5																	
	DCGT11T302-MN2	11,63	0,2	0,05-0,12	0,5-2,0																	
	DCGT11T304-MN2	11,63	0,4	0,08-0,25	0,6-3,0																	
	DCGT11T308-MN2	11,63	0,8	0,10-0,30	0,8-3,5																	

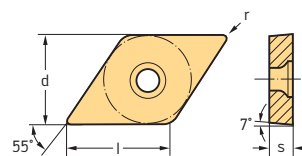
See the ISO 1832 designation key for dimensions

HE = Coated cermet
 HC = Coated carbide



Positive rhombic 55° DCMT / DCGT

Tiger-tec® Silver



Indexable inserts

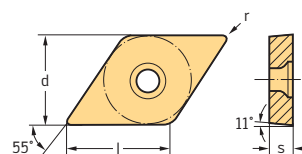
Designation	l mm	r mm	f mm	a _p mm	P						M				K		N	S				
					HE	HC					HC				HC		HC	HC				
					WEP10	WPP01	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S
DCMT070204-MM4	7,75	0,4	0,08–0,20	0,4–2,0						☞	☞		☞	☞	☞					☞	☞	☞
DCMT070208-MM4	7,75	0,8	0,12–0,25	0,5–2,0						☞	☞		☞	☞						☞	☞	
DCMT11T302-MM4	11,63	0,2	0,04–0,12	0,2–2,0									☞	☞	☞						☞	☞
DCMT11T304-MM4	11,63	0,4	0,08–0,25	0,4–3,0						☞	☞		☞	☞	☞					☞	☞	☞
DCMT11T308-MM4	11,63	0,8	0,12–0,32	0,5–3,0						☞	☞		☞	☞	☞					☞	☞	☞
DCMT11T312-MM4	11,63	1,2	0,15–0,35	0,5–3,0									☞	☞	☞						☞	
DCGT070204-MM4	7,75	0,4	0,08–0,20	0,4–2,0								☞	☞	☞					☞	☞	☞	
DCGT11T302-MM4	11,63	0,2	0,04–0,12	0,2–2,0								☞	☞	☞	☞					☞	☞	☞
DCGT11T304-MM4	11,63	0,4	0,08–0,25	0,4–3,0								☞	☞	☞	☞					☞	☞	☞
DCGT11T308-MM4	11,63	0,8	0,12–0,32	0,5–3,0								☞	☞	☞	☞					☞	☞	☞

See the ISO 1832 designation key for dimensions

HE = Coated cermet
HC = Coated carbide

Positive rhombic 55° DPMT / DPGT / DPMW

Tiger-tec® Silver



Indexable inserts

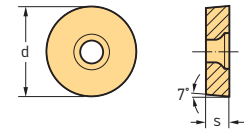
Designation	l mm	r mm	f mm	a _p mm	P				M				K		S					
					HC				HC				HC		HC					
					WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S	WSM20S	WSM30S	
DPMT070204-FM4	7,75	0,4	0,05–0,16	0,1–1,5				☞	☞										☞	
DPMT11T304-FM4	11,63	0,4	0,05–0,16	0,1–1,5				☞	☞										☞	
DPMT11T308-FM4	11,63	0,8	0,08–0,20	0,1–1,5				☞	☞										☞	
DPMT070204-FP4	7,75	0,4	0,05–0,16	0,1–1,5	☞															
DPMT11T304-FP4	11,63	0,4	0,05–0,16	0,1–1,5	☞															
DPMT11T308-FP4	11,63	0,8	0,08–0,20	0,1–1,5	☞															
DPGT070204-MM4	7,75	0,4	0,08–0,20	0,4–2,0						☞	☞						☞	☞	☞	
DPGT11T304-MM4	11,63	0,4	0,08–0,25	0,4–3,0						☞	☞						☞	☞	☞	
DPGT11T308-MM4	11,63	0,8	0,12–0,32	0,5–3,0						☞	☞						☞	☞	☞	
DPMW11T308-RK6	11,63	0,8	0,16–0,35	0,5–4,0												☞				

See the ISO 1832 designation key for dimensions


HC = Coated carbide

☞ ☞ ☞ / ★ New addition to the product range

Positive round RCGT



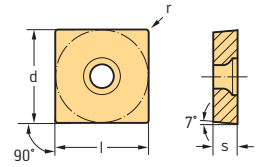
Indexable inserts

Designation	d mm	f mm	a _p mm	P			M			K		N	S		
				HC			HC			HC		HC	HC		
				WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM10S
 RCGT0602M0-MN2	6	0,10–0,55	0,6–2,5								☺				
RCGT0803M0-MN2	8	0,12–0,60	0,7–3,0								☺				
RCGT10T3M0-MN2	10	0,15–0,70	0,8–4,0								☺				
RCGT1204M0-MN2	12	0,18–0,80	1,0–5,0								☺				
RCGT120400-MN2	12,7	0,18–0,80	1,0–5,0								☺				

See the ISO 1832 designation key for dimensions

HC = Coated carbide

Positive square
SCGT / SCMT
Tiger-tec® Silver



Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P				M			K		N		S		
					HC				HC			HC		HC		HC		
					WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S
	SCGT09T304-FN2	9,53	0,4	0,08–0,25	0,2–2,5													
	SCGT09T308-FN2	9,53	0,8	0,10–0,30	0,3–3,0													
	SCGT120408-FN2	12,7	0,8	0,10–0,30	0,3–3,0													
	SCGT09T304-FM2	9,53	0,4	0,08–0,25	0,2–2,5													
	SCGT09T308-FM2	9,53	0,8	0,10–0,30	0,3–3,0													
	SCGT120408-FM2	12,7	0,8	0,10–0,30	0,3–3,0													
	SCMT060204-FM4	6,35	0,4	0,05–0,16	0,1–1,5													
	SCMT09T304-FM4	9,53	0,4	0,05–0,15	0,1–1,5													
	SCMT09T308-FM4	9,53	0,8	0,05–0,18	0,1–1,8													
	SCMT120404-FM4	12,7	0,4	0,05–0,15	0,1–1,5													
	SCMT120408-FM4	12,7	0,8	0,05–0,18	0,1–1,8													
	SCMT060204-FP4	6,35	0,4	0,05–0,16	0,1–1,5													
	SCMT09T304-FP4	9,53	0,4	0,05–0,15	0,1–1,5													
	SCMT09T308-FP4	9,53	0,8	0,05–0,18	0,1–1,8													
	SCMT120404-FP4	12,7	0,4	0,05–0,15	0,1–1,5													
	SCMT120408-FP4	12,7	0,8	0,05–0,18	0,1–1,8													
	SCMT120412-FP4	12,7	1,2	0,12–0,32	0,3–1,8													
	SCMT09T304-FM6	9,53	0,4	0,08–0,25	0,3–2,0													
	SCMT09T308-FM6	9,53	0,8	0,12–0,30	0,5–2,0													
	SCMT120408-FM6	12,7	0,8	0,12–0,32	0,5–2,5													
	SCGT09T304-MN2	9,53	0,4	0,08–0,25	0,6–4,0													
	SCGT09T308-MN2	9,53	0,8	0,10–0,35	0,7–4,0													
	SCGT120408-MN2	12,7	0,8	0,10–0,40	0,8–6,0													
	SCMT09T304-MM4	9,53	0,4	0,08–0,25	0,4–3,0													
	SCMT09T308-MM4	9,53	0,8	0,12–0,32	0,5–3,0													
	SCMT120408-MM4	12,7	0,8	0,12–0,32	0,5–3,5													
	SCGT09T304-MM4	9,53	0,4	0,08–0,25	0,4–3,0													
	SCGT09T308-MM4	9,53	0,8	0,12–0,32	0,5–3,0													
	SCGT120408-MM4	12,7	0,8	0,12–0,32	0,5–3,5													

See the ISO 1832 designation key for dimensions

HC = Coated carbide

WALTER SELECT

Optimum indexable insert for

Good

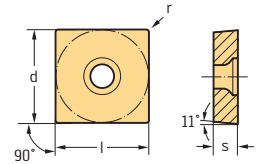
Average

Poor
















machining conditions

Positive square
SPMT / SPGT / SPMW

Tiger-tec® Silver



Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P			M			K		S				
					HC			HC			HC		HC				
					WPP10S	WPP20S	WPP30S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S	WSM20S
 SPMT120408-FP4	12,7	0,8	0,05–0,18	0,1–1,8	☹												
 SPMT09T304-MM4	9,53	0,4	0,08–0,25	0,4–3,0													☹
 SPMT09T308-MM4	9,53	0,8	0,12–0,32	0,5–3,0													☹
 SPGT09T304-MM4	9,53	0,4	0,08–0,25	0,4–3,0													☹
 SPGT09T308-MM4	9,53	0,8	0,12–0,32	0,5–3,0													☹
 SPMT09T304-MP4	9,53	0,4	0,08–0,25	0,4–3,0		☹											
 SPMT09T308-MP4	9,53	0,8	0,12–0,32	0,5–3,0		☹											
 SPGT09T304-MP4	9,53	0,4	0,08–0,25	0,4–3,0		☹	☹										
 SPGT09T308-MP4	9,53	0,8	0,12–0,32	0,5–3,0		☹	☹										
 SPMT09T304-MK4	9,53	0,4	0,08–0,25	0,4–3,0													☹
 SPMT09T308-MK4	9,53	0,8	0,12–0,32	0,5–3,0													☹
 SPGT09T304-MK4	9,53	0,4	0,08–0,25	0,4–3,0													☹
 SPGT09T308-MK4	9,53	0,8	0,12–0,32	0,5–3,0													☹
 SPMW09T304-RK6	9,53	0,4	0,12–0,25	0,4–3,0													☹
 SPMW09T308-RK6	9,53	0,8	0,16–0,35	0,6–4,0													☹
SPMW120408-RK6	12,7	0,8	0,16–0,40	0,6–5,0													☹

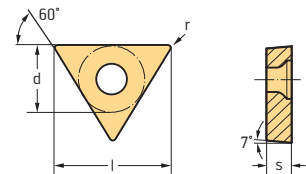
See the ISO 1832 designation key for dimensions

HC = Coated carbide




☹ ☹ ☹ / ★ New addition to the product range

Positive triangular 60° TCGT / TCMT

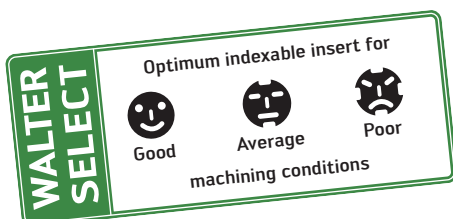
Tiger-tec® Silver



Indexable inserts

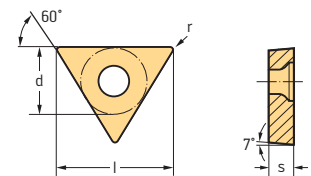
Designation	l mm	r mm	f mm	a _p mm	P					M					K		N		S					
					HE	HC				HC					HC	HC	HC							
					WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM21	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S		
 TCGT06T101-FN2	6,62	0,1	0,02-0,06	0,1-1,5														☺						
TCGT06T102-FN2	6,62	0,2	0,05-0,12	0,2-2,0														☺						
TCGT06T104-FN2	6,62	0,4	0,08-0,25	0,2-2,5														☺						
TCGT090202-FN2	9,37	0,2	0,05-0,12	0,2-2,0														☺						
TCGT090204-FN2	9,37	0,4	0,08-0,25	0,2-2,5														☺						
TCGT110202-FN2	10,74	0,2	0,05-0,12	0,2-2,0														☺						
TCGT110204-FN2	10,74	0,4	0,08-0,25	0,2-2,5														☺						
TCGT16T304-FN2	16,50	0,4	0,08-0,25	0,2-2,5														☺						
TCGT16T308-FN2	16,50	0,8	0,10-0,30	0,3-3,0														☺						
 TCGT06T101-FM2	6,62	0,1	0,02-0,06	0,1-1,5																				
TCGT06T102-FM2	6,62	0,2	0,05-0,12	0,2-2,0																				
TCGT06T104-FM2	6,62	0,4	0,08-0,25	0,2-2,5						☹				☹					☹					
TCGT090202-FM2	9,37	0,2	0,05-0,12	0,2-2,0																				
TCGT090204-FM2	9,37	0,4	0,08-0,25	0,2-2,5																				
TCGT110201-FM2	10,74	0,1	0,02-0,06	0,1-1,5																				
TCGT110202-FM2	10,74	0,2	0,05-0,12	0,2-2,0						☹				☹						☹				☹
TCGT110204-FM2	10,74	0,4	0,08-0,25	0,2-2,5						☹				☹						☹				☹
TCGT16T302-FM2	16,50	0,2	0,05-0,12	0,2-2,0																				
TCGT16T304-FM2	16,50	0,4	0,08-0,25	0,2-2,5						☹				☹						☹				☹
TCGT16T308-FM2	16,50	0,8	0,10-0,30	0,3-3,0						☹				☹						☹				☹
 TCMT06T102-FM4	6,62	0,2	0,02-0,10	0,1-1,0																				
TCMT06T104-FM4	6,62	0,4	0,04-0,17	0,1-1,0																				
TCMT090202-FM4	9,37	0,2	0,04-0,12	0,1-1,0																				
TCMT090204-FM4	9,37	0,4	0,05-0,16	0,1-1,5																				
TCMT090208-FM4	9,37	0,8	0,08-0,20	0,1-1,5																				
TCMT110202-FM4	10,74	0,2	0,04-0,12	0,1-1,0																				
TCMT110204-FM4	10,74	0,4	0,05-0,16	0,1-1,5					☹	☹														
TCMT110208-FM4	10,74	0,8	0,08-0,20	0,1-1,5																				
TCMT16T302-FM4	16,50	0,2	0,04-0,12	0,1-1,0												☹								☹
TCMT16T304-FM4	16,50	0,4	0,05-0,16	0,1-1,5						☹				☹										☹
TCMT16T308-FM4	16,50	0,8	0,08-0,20	0,1-1,5						☹				☹										☹

See the ISO 1832 designation key for dimensions

HE = Coated cermet
HC = Coated carbide

Positive triangular 60° TCGT / TCMT

Tiger-tec® Silver



Indexable inserts

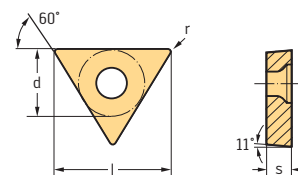
Designation	l mm	r mm	f mm	a _p mm	P					M					K		N		S					
					HE		HC			HC					HC	HC	HC							
					WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM21	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S		
TCGT06T102-FP4	6,62	0,2	0,02–0,10	0,1–1,0																				
TCGT06T104-FP4	6,62	0,4	0,04–0,17	0,1–1,0	☹																			
TCGT090202-FP4	9,37	0,2	0,04–0,12	0,1–1,0																				
TCGT090204-FP4	9,37	0,4	0,05–0,16	0,1–1,5	☹	☹																		
TCGT090208-FP4	9,37	0,8	0,08–0,20	0,1–1,5																				
TCGT110202-FP4	10,74	0,2	0,04–0,12	0,1–1,0																				
TCGT110204-FP4	10,74	0,4	0,05–0,16	0,1–1,5	☹	☹																		
TCGT110208-FP4	10,74	0,8	0,08–0,20	0,1–1,5																				
TCGT16T302-FP4	16,50	0,2	0,04–0,12	0,1–1,0																				
TCGT16T304-FP4	16,50	0,4	0,05–0,16	0,1–1,5																				
TCGT16T308-FP4	16,50	0,8	0,08–0,20	0,1–1,5	☹	☹																		
TCGT110204-FM6	10,74	0,4	0,08–0,25	0,3–1,6																				
TCGT110208-FM6	10,74	0,8	0,12–0,30	0,5–1,6																				
TCGT16T304-FM6	16,50	0,4	0,08–0,25	0,3–2,0																				
TCGT16T308-FM6	16,50	0,8	0,12–0,32	0,5–2,5																				
TCGT110201-MN2	10,74	0,1	0,02–0,06	0,5–1,5																				
TCGT110202-MN2	10,74	0,2	0,05–0,12	0,6–2,0																				
TCGT110204-MN2	10,74	0,4	0,08–0,25	0,6–3,0																				
TCGT16T302-MN2	16,50	0,2	0,05–0,12	0,5–2,0																				
TCGT16T304-MN2	16,50	0,4	0,08–0,25	0,6–4,0																				
TCGT16T308-MN2	16,50	0,8	0,10–0,35	0,8–4,0																				
TCGT090204-MM4	9,37	0,4	0,08–0,20	0,4–2,0																				
TCGT110204-MM4	10,74	0,4	0,08–0,20	0,4–2,0																				
TCGT110208-MM4	10,74	0,8	0,12–0,30	0,5–2,0																				
TCGT16T304-MM4	16,50	0,4	0,08–0,25	0,4–3,0																				
TCGT16T308-MM4	16,50	0,8	0,12–0,32	0,5–3,0																				
TCMT090204-MP4	9,37	0,4	0,08–0,20	0,4–2,0		☹	☹																	
TCMT090208-MP4	9,37	0,8	0,12–0,25	0,5–2,0		☹	☹																	
TCMT110204-MP4	10,74	0,4	0,08–0,20	0,4–2,0		☹	☹																	
TCMT110208-MP4	10,74	0,8	0,12–0,30	0,5–2,0		☹	☹																	
TCMT16T304-MP4	16,50	0,4	0,08–0,25	0,4–3,0		☹	☹																	
TCMT16T308-MP4	16,50	0,8	0,12–0,32	0,5–3,0		☹	☹																	
TCMT220408-MP4	22,00	0,8	0,12–0,32	0,5–3,5		☹	☹																	

See the ISO 1832 designation key for dimensions

HE = Coated cermet
HC = Coated carbide

Positive triangular 60° TPMT / TPGT / TPMW / TPMR / TPGN

Tiger-tec® Silver



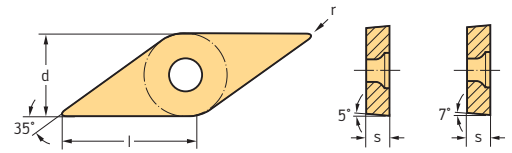
Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P				M				K		S				HW	
					HC				HC				HC		HC					
					WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S	WSM20S		WSM30S
TPMT110204-FM4	11,00	0,4	0,05–0,16	0,1–1,5																
TPMT16T304-FM4	16,50	0,4	0,05–0,16	0,1–1,5																
TPMT110204-FP4	11,00	0,4	0,05–0,16	0,1–1,5	☺															
TPMT16T304-FP4	16,50	0,4	0,05–0,16	0,1–1,5	☺															
TPGT110204-MM4	11,00	0,4	0,08–0,20	0,4–2,0						☺	☺			☺	☺					
TPGT110208-MM4	11,00	0,8	0,12–0,30	0,5–2,0						☺	☺			☺	☺					
TPGT16T304-MM4	16,50	0,4	0,08–0,25	0,4–3,0						☺	☺			☺	☺					
TPGT16T308-MM4	16,50	0,8	0,12–0,32	0,5–3,0						☺	☺			☺	☺					
TPMT090204-MP4	9,62	0,4	0,08–0,20	0,4–2,0		☺														
TPMT110204-MP4	11,00	0,4	0,08–0,20	0,4–2,0		☺														
TPMT110208-MP4	11,00	0,8	0,12–0,30	0,5–2,0		☺														
TPMT16T304-MP4	16,50	0,4	0,08–0,25	0,4–3,0		☺														
TPMT16T308-MP4	16,50	0,8	0,12–0,32	0,5–3,0		☺														
TPMT220408-MP4	22,00	0,8	0,15–0,32	0,5–3,5		☺														
TPMT090204-MK4	9,62	0,4	0,08–0,20	0,4–2,0										☺						
TPMT090208-MK4	9,62	0,8	0,12–0,20	0,5–2,0										☺						
TPMT110204-MK4	11,00	0,4	0,08–0,20	0,4–2,0										☺						
TPMT110208-MK4	11,00	0,8	0,12–0,30	0,5–2,0										☺						
TPMT16T304-MK4	16,50	0,4	0,08–0,25	0,4–3,0										☺						
TPMT16T308-MK4	16,50	0,8	0,12–0,32	0,5–3,0										☺						
TPMW110204-RK6	11,00	0,4	0,12–0,25	0,4–2,5										☺						
TPMW110208-RK6	11,00	0,8	0,16–0,30	0,6–3,0										☺						
TPMW16T304-RK6	16,50	0,4	0,12–0,25	0,4–3,0										☺						
TPMW16T308-RK6	16,50	0,8	0,16–0,35	0,6–4,0										☺						
TPMR110308	11,00	0,8	0,16–0,30	0,6–3,0										☺						
TPMR130308	13,75	0,8	0,16–0,30	0,6–3,0		☺														
TPMR160304	16,50	0,4	0,12–0,25	0,4–3,0		☺														
TPMR160308	16,50	0,8	0,16–0,30	0,6–4,0		☺														
TPGN090204	9,62	0,4	0,10–0,18	0,4–2,0										☺						
TPGN090208	9,62	0,8	0,12–0,20	0,8–2,0										☺						
TPGN110308	11,00	0,8	0,12–0,20	0,8–2,0								☺		☺				☺		
TPGN160304	16,50	0,4	0,10–0,25	0,4–3,0		☺	☺					☺		☺				☺	☺	
TPGN160308	16,50	0,8	0,12–0,30	0,8–3,0		☺	☺					☺		☺				☺	☺	
TPGN220404	22,00	0,4	0,10–0,25	0,4–4,0		☺								☺						
TPGN220408	22,00	0,8	0,12–0,30	0,8–4,0		☺								☺						

See the ISO 1832 designation key for dimensions

 HC = Coated carbide
 HW = Uncoated carbide

Positive rhombic 35°
VCGT / VCMT / VBMT
Tiger-tec® Silver



Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P					M				K		N		S						
					HE		HC			HC				HC		HC		HC						
					WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S			
VCGT110301-FN2	11,07	0,1	0,02-0,06	0,1-1,5												☺								
VCGT110302-FN2	11,07	0,2	0,05-0,12	0,2-2,0												☺								
VCGT110304-FN2	11,07	0,4	0,08-0,25	0,2-2,5												☺								
VCGT160402-FN2	16,61	0,2	0,05-0,12	0,2-2,0												☺								
VCGT160404-FN2	16,61	0,4	0,08-0,25	0,2-2,5												☺								
VCGT160408-FN2	16,61	0,8	0,10-0,30	0,3-3,0												☺								
VCGT110301-FM2	11,07	0,1	0,02-0,06	0,1-1,5																				☺
VCGT110302-FM2	11,07	0,2	0,05-0,12	0,2-2,0							☺										☺			☺
VCGT110304-FM2	11,07	0,4	0,08-0,25	0,2-2,5							☺	☺								☺	☺			☺
VCGT160402-FM2	16,61	0,2	0,05-0,12	0,2-2,0							☺	☺								☺	☺			☺
VCGT160404-FM2	16,61	0,4	0,08-0,25	0,2-2,5							☺	☺	☺						☺	☺				☺
VCGT160408-FM2	16,61	0,8	0,10-0,30	0,3-3,0							☺	☺							☺	☺				☺
VCMT110302-FP4	11,07	0,2	0,04-0,12	0,1-1,0	☺	☺	☺																	
VCMT110304-FP4	11,07	0,4	0,05-0,16	0,1-1,5	☺	☺	☺																	
VCMT160402-FP4	16,61	0,2	0,04-0,12	0,1-1,0	☺	☺	☺																	
VCMT160404-FP4	16,61	0,4	0,05-0,16	0,1-1,5	☺	☺	☺																	
VCMT160408-FP4	16,61	0,8	0,08-0,20	0,1-1,5	☺	☺	☺																	
VBMT110304-FM6	11,07	0,4	0,08-0,20	0,3-1,6							☺	☺	☺								☺	☺	☺	☺
VBMT110308-FM6	11,07	0,8	0,12-0,30	0,5-1,6							☺	☺	☺								☺	☺	☺	☺
VBMT160404-FM6	16,61	0,4	0,08-0,25	0,3-2,0							☺	☺	☺								☺	☺	☺	☺
VBMT160408-FM6	16,61	0,8	0,12-0,30	0,6-2,5							☺	☺	☺								☺	☺	☺	☺
VBMT160412-FM6	16,61	1,2	0,15-0,30	1,0-2,5							☺	☺	☺								☺	☺	☺	☺
VCGT110301-MN2	11,07	0,1	0,02-0,06	0,5-1,5														☺						
VCGT110302-MN2	11,07	0,2	0,05-0,12	0,5-2,0														☺						
VCGT110304-MN2	11,07	0,4	0,08-0,25	0,6-2,5														☺						
VCGT110308-MN2	11,07	0,8	0,10-0,35	0,8-3,0														☺						
VCGT130301-MN2	13,1	0,1	0,02-0,06	0,5-1,5														☺						
VCGT130302-MN2	13,1	0,2	0,05-0,12	0,5-2,0														☺						
VCGT130304-MN2	13,1	0,4	0,08-0,25	0,6-3,0														☺						
VCGT160404-MN2	16,61	0,4	0,08-0,25	0,6-3,5							☺							☺	☺					
VCGT160408-MN2	16,61	0,8	0,10-0,35	0,8-3,5							☺							☺	☺					
VCGT160412-MN2	16,61	1,2	0,10-0,45	1,0-3,5														☺						
VBMT110304-MM4	11,07	0,4	0,08-0,20	0,4-1,5							☺	☺									☺	☺		
VBMT110308-MM4	11,07	0,8	0,12-0,25	0,5-1,5							☺	☺									☺	☺		
VBMT160404-MM4	16,61	0,4	0,08-0,20	0,4-2,0							☺	☺	☺								☺	☺	☺	☺
VBMT160408-MM4	16,61	0,8	0,12-0,30	0,5-2,0							☺	☺	☺								☺	☺	☺	☺
VBMT160412-MM4	16,61	1,2	0,12-0,32	0,5-2,0							☺	☺									☺	☺		

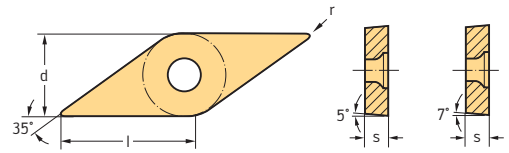
See the ISO 1832 designation key for dimensions

HE = Coated cermet
HC = Coated carbide



☺ / ★ New addition to the product range

Positive rhombic 35° VCGT / VCMT / VBMT

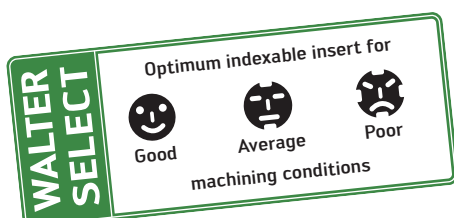
Tiger-tec® Silver



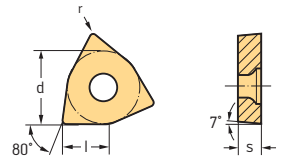
Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P					M				K		N		S			
					HE		HC			HC				HC		HC		HC			
					WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S
 VCGT110302-MM4	11.07	0.2	0.05–0.12	0.2–1.5							☉	☉					☉	☉			
VCGT110304-MM4	11.07	0.4	0.08–0.20	0.4–1.5							☉	☉					☉	☉			
VCGT160402-MM4	16.61	0.2	0.05–0.12	0.2–2.0							☉	☉					☉	☉			
VCGT160404-MM4	16.61	0.4	0.08–0.20	0.4–2.0							☉	☉					☉	☉			
VCGT160408-MM4	16.61	0.8	0.12–0.30	0.5–2.0							☉	☉					☉	☉			
 VBMT110304-MK4	11.07	0.4	0.08–0.20	0.4–1.5										☉	☉						
VBMT110308-MK4	11.07	0.8	0.12–0.25	0.5–1.5										☉	☉						
VBMT160404-MK4	16.61	0.4	0.08–0.20	0.4–2.0										☉	☉						
VBMT160408-MK4	16.61	0.8	0.12–0.30	0.5–2.0										☉	☉						
VBMT160412-MK4	16.61	1.2	0.12–0.32	0.5–2.0										☉	☉						

See the ISO 1832 designation key for dimensions

HE = Coated cermet
HC = Coated carbide

Positive Trigon 80°
WCGT
Tiger-tec®



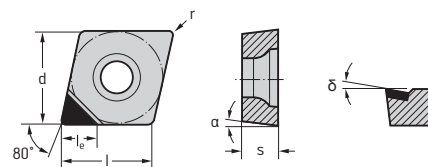
Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P				M				K		N	S			
					HC				HC				HC		HC	HC			
					WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM10S	WSM20S	WSM21	WSM30S	WKK10S	WKK20S	WNN10	WSM10S	WSM20S	WSM30S
	WCGT030202-FN2	3,91	0,2	0,05-0,12	0,2-2,0														
	WCGT030204-FN2	3,91	0,4	0,08-0,25	0,2-2,5														
	WCGT040202-FN2	4,34	0,2	0,05-0,12	0,2-2,0														
	WCGT040204-FN2	4,34	0,4	0,08-0,25	0,2-2,5														
	WCGT06T304-FN2	6,52	0,4	0,08-0,25	0,2-2,5														
	WCGT06T308-FN2	6,52	0,8	0,10-0,30	0,3-3,0														
	WCGT030202-FM2	3,91	0,2	0,05-0,12	0,2-2,0														
	WCGT030204-FM2	3,91	0,4	0,08-0,25	0,2-2,5														
	WCGT040202-FM2	4,34	0,2	0,05-0,12	0,2-2,0														
	WCGT040204-FM2	4,34	0,4	0,08-0,25	0,2-2,5														
	WCGT030202-MN2	3,91	0,2	0,05-0,12	0,5-1,5														
	WCGT030204-MN2	3,91	0,4	0,08-0,20	0,6-1,5														
	WCGT040204-MN2	4,34	0,4	0,08-0,25	0,6-2,5														
	WCGT06T302-MN2	6,52	0,2	0,05-0,12	0,6-2,0														
	WCGT06T304-MN2	6,52	0,4	0,08-0,25	0,6-3,0														
	WCGT080404-MN2	8,69	0,4	0,08-0,25	0,6-4,0														
	WCGT080408-MN2	8,69	0,8	0,10-0,35	0,8-4,0														

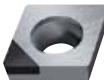
See the ISO 1832 designation key for dimensions

HC = Coated carbide

PCD – Positive rhombic 80° CPGW



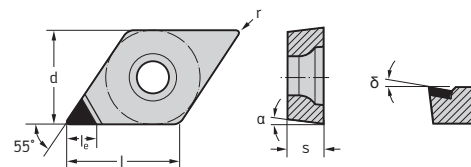
Indexable inserts

Designation	Number of cutting edges	l_e mm	r mm	α	δ	f mm	a_p mm	K		N		S		H		O	
								BH	CN	DP	CN	CR	BL	BH	DP		
								WCB80	WCK10	WDN10	WIS10	WWS20	WCB30	WCB50	WDN10		
 CPGW050204FS-1	1	3	0,4	11°	0°	0,03–0,25	0,1–2,5			☺							
CPGW060204FS-1	1	3,5	0,4	11°	0°	0,03–0,25	0,1–3,0			☺							
CPGW09T304FS-1	1	4	0,4	11°	0°	0,03–0,25	0,1–3,5			☺							
CPGW09T308FS-1	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			☺							
CPGW120408FS-1	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			☺							


See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si_3N_4
 DP = Polycrystalline diamond
 CR = Reinforced ceramic
 BL = CBN with low CBN content

PCD – Positive rhombic 55° DPGW



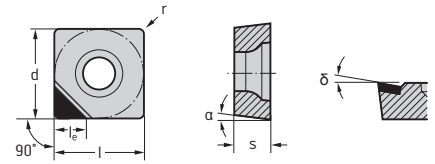
Indexable inserts

Designation	Number of cutting edges	l_e mm	r mm	α	δ	f mm	a_p mm	K		N		S		H		O	
								BH	CN	DP	CN	CR	BL	BH	DP		
								WCB80	WCK10	WDN10	WIS10	WWS20	WCB30	WCB50	WDN10		
 DPGW070204FS-1	1	3,5	0,4	11°	0°	0,03–0,25	0,1–3,0			☺							
DPGW11T304FS-1	1	4	0,4	11°	0°	0,03–0,25	0,1–3,5			☺							
DPGW11T308FS-1	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			☺							

See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si_3N_4
 DP = Polycrystalline diamond
 CR = Reinforced ceramic
 BL = CBN with low CBN content

PCD – Positive square SPGW



Indexable inserts

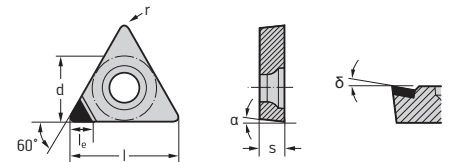
Designation	Number of cutting edges	l _e mm	r mm	α	δ	f mm	a _p mm	K		N		S		H		O	
								BH	CN	DP	CN	CR	BL	BH	DP		
								WCB80	WCK10	WDN10	WIS10	WWS20	WCB30	WCB50	WDN10		
SPGW09T308FS-1	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			☺							☺



See the ISO 1832 designation key for dimensions

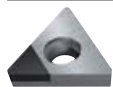
BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 CR = Reinforced ceramic
 BL = CBN with low CBN content

PCD – Positive triangular 60° TPGW



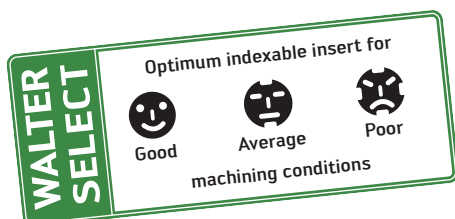
Indexable inserts

Designation	Number of cutting edges	l _e mm	r mm	α	δ	f mm	a _p mm	K		N		S		H		O	
								BH	CN	DP	CN	CR	BL	BH	DP		
								WCB80	WCK10	WDN10	WIS10	WWS20	WCB30	WCB50	WDN10		
TPGW110204FS-1	1	4,2	0,4	11°	0°	0,03–0,25	0,1–3,5			☺							☺
TPGW110208FS-1	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			☺							☺
TPGW16T304FS-1	1	4,2	0,4	11°	0°	0,03–0,25	0,1–3,5			☺							☺
TPGW16T308FS-1	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			☺							☺

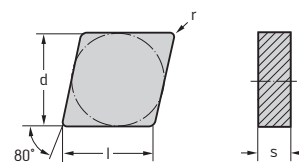


See the ISO 1832 designation key for dimensions




BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 CR = Reinforced ceramic
 BL = CBN with low CBN content



Ceramic – Negative rhombic 80° CNGN / CNGA / CNGX



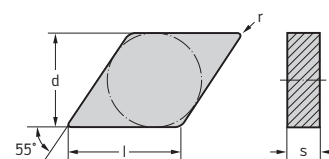
Indexable inserts

Designation	r mm	f mm	a _p mm	K		N		S		H		O	
				BH	CN	DP	CN	CR	BL	BH	DP		
				WCB80	WCK10	WDN10	WIS10	WWS20	WCB30	WCB50	WDN10		
 CNGN120408T01020	0,8	0,10–0,22	0,1–3,6										
CNGN120408T02020	0,8	0,10–0,40	0,1–6,0	☺									
CNGN120412T01020	1,2	0,10–0,32	0,1–3,6										
CNGN120412T02020	1,2	0,10–0,60	0,1–6,0	☺									
CNGN120416T02020	1,6	0,10–0,60	0,1–6,0	☺									
CNGN120708T01020	0,8	0,10–0,22	0,1–3,6					☺	☺				
CNGN120712T01020	1,2	0,10–0,32	0,1–3,6					☺	☺				
CNGN120712T02020	1,2	0,10–0,60	0,1–6,0	☺									
CNGN120716T01020	1,6	0,10–0,42	0,1–3,6					☺	☺				
CNGN120716T02020	1,6	0,10–0,60	0,1–6,0	☺									
 CNGA120408T02020	0,8	0,10–0,40	0,1–6,0	☺									
CNGA120412T02020	1,2	0,10–0,60	0,1–6,0	☺									
CNGA120416T02020	1,6	0,10–0,60	0,1–6,0	☺									
 CNGX120712T02020	1,2	0,10–0,60	0,1–6,0	☺									
CNGX160712T02020	1,2	0,10–0,60	0,1–8,0	☺									
CNGX120716T02020	1,6	0,10–0,60	0,1–6,0	☺									
CNGX160716T02020	1,6	0,10–0,60	0,1–8,0	☺									


See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 CR = Reinforced ceramic
 BL = CBN with low CBN content

Ceramic – Negative rhombic 80° DNGA



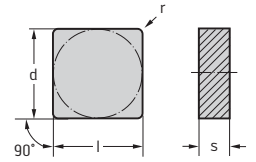
Indexable inserts

Designation	r mm	f mm	a _p mm	K		N		S		H		O	
				BH	CN	DP	CN	CR	BL	BH	DP		
				WCB80	WCK10	WDN10	WIS10	WWS20	WCB30	WCB50	WDN10		
 DNGA150608T02020	0,8	0,10–0,40	0,1–5,0	☺									
DNGA150612T02020	1,2	0,10–0,60	0,1–5,0	☺									

See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 CR = Reinforced ceramic
 BL = CBN with low CBN content

Ceramic – Negative square SNGN / SNGA / SNGX



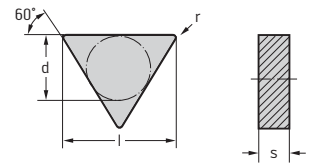
Indexable inserts

Designation	r mm	f mm	a _p mm	K		N		S		H		O	
				BH	CN	DP	CN	CR	BL	BH	DP		
				WCB80	WCK10	WDN10	WIS10	WWS20	WCB30	WCB50	WDN10		
	SNGN120412T02020	1,2	0,10–0,60	0,1–5,0	☺								
	SNGN120416T02020	1,6	0,10–0,60	0,1–5,0	☺								
	SNGN120708T01020	0,8	0,10–0,22	0,1–3,6				☺					
	SNGN120712T01020	1,2	0,10–0,32	0,1–3,6				☺	☺				
	SNGN120712T02020	1,2	0,10–0,60	0,1–5,0	☺								
	SNGN120716T01020	1,6	0,10–0,42	0,1–3,6				☺					
	SNGN120716T02020	1,6	0,10–0,60	0,1–5,0	☺								
	SNGA120408T02020	0,8	0,10–0,40	0,1–5,0	☺								
	SNGA120412T02020	1,2	0,10–0,60	0,1–5,0	☺								
	SNGA120416T02020	1,6	0,10–0,80	0,1–5,0	☺								
	SNGX120712T02020	1,2	0,10–0,60	0,1–5,0	☺								
	SNGX120716T02020	1,6	0,10–0,60	0,1–5,0	☺								
	SNGX150712T02020	1,2	0,10–0,60	0,1–7,0	☺								



See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 CR = Reinforced ceramic
 BL = CBN with low CBN content

Ceramic – Negative triangular 60° TNGN / TNGA



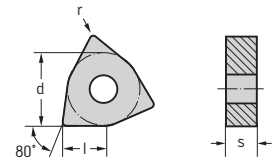
Indexable inserts

Designation	r mm	f mm	a _p mm	K		N		S		H		O	
				BH	CN	DP	CN	CR	BL	BH	DP		
				WCB80	WCK10	WDN10	WIS10	WWS20	WCB30	WCB50	WDN10		
 TNGN160412T02020 TNGN160416T02020	1,2	0,10–0,60	0,1–5,0	⊕	⊕								
	1,6	0,10–0,60	0,1–5,0	⊕	⊕								
 TNGA160408T02020 TNGA160412T02020	0,8	0,10–0,40	0,1–5,0	⊕	⊕								
	1,2	0,10–0,60	0,1–5,0	⊕	⊕								


See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 CR = Reinforced ceramic
 BL = CBN with low CBN content

Ceramic – Negative Trigon 80° WNGA

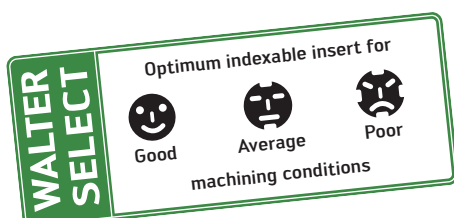


Indexable inserts

Designation	r mm	f mm	a _p mm	K		N		S		H		O	
				BH	CN	DP	CN	CR	BL	BH	DP		
				WCB80	WCK10	WDN10	WIS10	WWS20	WCB30	WCB50	WDN10		
 WNGA080408T02020 WNGA080412T02020	0,8	0,10–0,40	0,1–5,0	⊕	⊕								
	1,2	0,10–0,60	0,1–5,0	⊕	⊕								

See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 CR = Reinforced ceramic
 BL = CBN with low CBN content



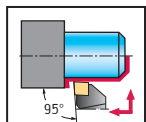
Shank tool – Rigid clamping

DCLN...-P

Walter Turn



– Precision cooling



Tool	Designation		h = h ₁ mm	b mm	b ₁ mm	f mm	l ₁ mm	l ₄ mm	γ	λ _s	Type	
	★ DCLNR/L2020X12-P		12	20	20	10	25	115	38,5	-6°	-6°	CN .. 1204 ..
	★ DCLNR/L2525X12-P		12	25	25	4	32	130	38,5	-6°	-6°	
	★ DCLNR/L2525X16-P		16	25	25	12	32	135	43,5	-6°	-6°	

Measured with master insert: CN .. 120408 / CN .. 160612
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: DCLNR2020X12-P/ordering example, left-hand tool: DCLNL2020X12-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	CN .. 1204 ..	CN .. 1606 ..
	Shim	AP301-CN12	AP302-CN16
	Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm	FS1463 (Torx 20IP) 5,0 Nm
	Left clamp	PK265L	PK267
	Right clamp	PK265R	PK267
	Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm	FS1474 (Torx 20IP) 6,4 Nm
	Pressure spring	FS2188	FS2298
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)	FS1464 (Torx 20IP)

Accessories	Type	CN .. 1204 ..	CN .. 1606 ..
	Left clamp set (standard assembly parts)	PK265L-SET	PK267-SET
	Right clamp set (standard assembly parts)	PK265R-SET	PK267-SET

/ ★ New addition to the product range

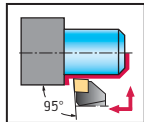
Shank tool – Rigid clamping

DCLN...-P inch

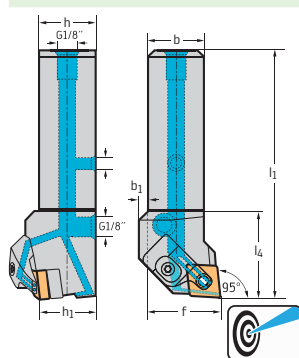
Walter Turn



– Precision cooling



Tool



Designation	(in)	h = h ₁ Inch	b Inch	b ₁ Inch	f Inch	l ₁ Inch	l ₄ Inch	γ	λ _s	Type	
★ DCLNR/L124B-P		0,500	0,750	0,750	0,394	1,000	4,500	1,575	-6°	-6°	CN .. 1204 ..
★ DCLNR/L164D-P		0,500	1,000	1,000	0,157	1,250	6,000	1,516	-6°	-6°	
★ DCLNR/L165D-P		0,625	1,000	1,000	0,472	1,250	6,000	1,713	-6°	-6°	

Measured with master insert: CN .. 120408 / CN .. 160612

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: DCLNR124B-P/ordering example, left-hand tool: DCLNL124B-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	CN .. 1204 ..	CN .. 1606 ..
Shim	AP301-CN12	AP302-CN16
Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm	FS1463 (Torx 20IP) 5,0 Nm
Left clamp	PK265L	PK267
Right clamp	PK265R	PK267
Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm	FS1474 (Torx 20IP) 6,4 Nm
Pressure spring	FS2188	FS2298
G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
M6 threaded plug	FS2288 (SW 3)	FS2288 (SW 3)
Torx key	FS1465 (Torx 15IP)	FS1464 (Torx 20IP)

Accessories

Type	CN .. 1204 ..	CN .. 1606 ..
Left clamp set (standard assembly parts)	PK265L-SET	PK267-SET
Right clamp set (standard assembly parts)	PK265R-SET	PK267-SET

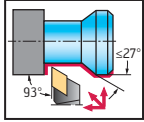
Shank tool – Rigid clamping

DDJN...-P

Walter Turn



– Precision cooling



Tool	Designation	h = h ₁		b	b ₁	f	l ₁	l ₄	γ	λ _s	Type
		mm	mm								
	DDJNR/L2020X11-P	11	20	20	6	25	125	48,5	-6°	-7°	DN .. 1104 ..
	DDJNR/L2525X11-P	11	25	25	0	32	140	48,5	-6°	-7°	DN .. 1104 ..
	★ DDJNR/L2020X15-P	15	20	20	7	25	125	48,5	-6°	-7°	DN .. 1506 ..
	★ DDJNR/L2525X15-P	15	25	25	3	32	140	48,5	-6°	-7°	DN .. 1506 ..

Measured with master insert: DN .. 110408 / DN .. 150608
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: DDJNR2020X11-P/ordering example, left-hand tool: DDJNL2020X11-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	DN .. 1104 ..	DN .. 1506 ..
	Shim	AP305-DN11	AP304-DN15
	Screw for shim Tightening torque	FS1462 (Torx 9IP) 1,5 Nm	FS1461 (Torx 15IP) 2,5 Nm
	Left clamp	PK261L	PK265L
	Right clamp	PK261R	PK265R
	Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)	FS1465 (Torx 15IP)

Accessories	Type	DN .. 1104 ..	DN .. 1506 ..
	Left clamp set (standard assembly parts)	PK261L-SET	PK265L-SET
	Right clamp set (standard assembly parts)	PK261R-SET	PK265R-SET
	Shim for DN .. 1504 ..		AP304-DN1504

/ ★ New addition to the product range

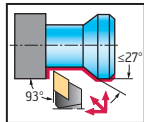
Shank tool – Rigid clamping

DDJN...-P inch

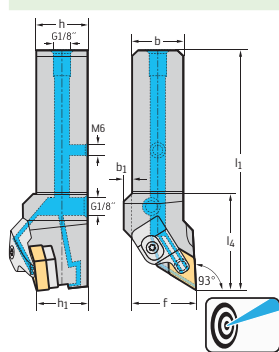
Walter Turn




– Precision cooling



Tool



Designation		$h = h_1$ Inch	b Inch	b_1 Inch	f Inch	l_1 Inch	l_4 Inch	γ	λ_s	Type
DDJNR/L163D-P	0,375	1,000	1,000	0,118	1,250	6,000	1,909	-6°	-7°	DN .. 1104 ..
★ DDJNR/L124B-P	0,500	0,750	0,750	0,276	1,000	4,500	1,969	-6°	-7°	DN .. 1504 ..
★ DDJNR/L164D-P	0,500	1,000	1,000	0,118	1,250	6,000	1,909	-6°	-7°	

Measured with master insert: DN .. 110408 / DN .. 150408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"










For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)




Ordering example, right-hand tool: DDJNR163D-P/ordering example, left-hand tool: DDJNL163D-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	DN .. 1104 ..	DN .. 1504 ..
	AP305-DN11	AP304-DN1504
 Tightening torque	FS1462 (Torx 9IP) 1,5 Nm	FS1461 (Torx 15IP) 2,5 Nm
	PK261L	PK265L
	PK261R	PK265R
 Tightening torque	FS1473 (Torx 15IP) 3,9 Nm	FS1473 (Torx 15IP) 3,9 Nm
	FS2188	FS2188
	FS2258 (SW 5)	FS2258 (SW 5)
	FS2288 (SW 3)	FS2288 (SW 3)
	FS1465 (Torx 15IP)	FS1465 (Torx 15IP)

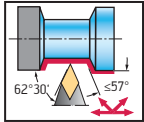
Accessories

Type	DN .. 1104 ..	DN .. 1504 ..
 (standard assembly parts)	PK261L-SET	PK265L-SET
 (standard assembly parts)	PK261R-SET	PK265R-SET
		AP304-DN15

Shank tool – Rigid clamping

DDPN inch

Walter Turn



Tool	Designation		$h = h_1$	b	f	l_1	l_4	γ	λ_s	Type
		Inch	Inch	Inch	Inch	Inch	Inch			
	★ DDPNN124B	0,500	0,750	0,750	0,375	4,500	1,610	-5°	-9°	DN .. 1504 ..
	★ DDPNN164D	0,500	1,000	1,000	0,500	6,000	1,610	-5°	-9°	
	★ DDPNN204D	0,500	1,250	1,250	0,625	6,000	1,610	-5°	-9°	

Measured with master insert: DN .. 150408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Type	DN .. 1504 ..
	Shim		AP304-DN1504
	Screw for shim		FS1461 (Torx 15IP)
	Tightening torque		2,5 Nm
	Clamp		PK241
	Clamp screw		FS1473 (Torx 15IP)
	Tightening torque		3,9 Nm
	Pressure spring		FS1470
	Pin		RS117
	Torx key		FS1465 (Torx 15IP)

Accessories		Type	DN .. 1504 ..
	Clamp set (standard assembly parts)		PK241-SET
	Carbide clamp set		PK245-SET
	Insert with drilled hole		PK254-SET
	Carbide clamp set		PK254-SET
	Insert without drilled hole		PK254-SET
	Shim for DN .. 1504 ..		AP304-DN1504
	Shim for DN .. 1507 ..		AP412-DN1507

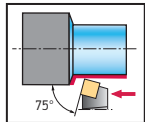
Shank tool – Rigid clamping

DSBN...-P

Walter Turn



– Precision cooling



Tool	Designation		h = h ₁ mm	b mm	b ₁ mm	f mm	l ₁ mm	l ₄ mm	γ	λ _s	Type
	★ DSBNR/L2525X12-P	12	25	25	7	22	135	43,5	-6°	-6°	SN .. 1204 ..

Measured with master insert: SN .. 120408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: DSBNR2525X12-P/ordering example, left-hand tool: DSBNL2525X12-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Type	SN .. 1204 ..
	Shim		AP308-SN12
	Screw for shim Tightening torque		FS1461 (Torx 15IP) 2,5 Nm
	Left clamp		PK265L
	Right clamp		PK265R
	Clamp screw Tightening torque		FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring		FS2188
	G 1/8" threaded plug		FS2258 (SW 5)
	M6 threaded plug		FS2288 (SW 3)
	Torx key		FS1465 (Torx 15IP)

Accessories		Type	SN .. 1204 ..
	Left clamp set (standard assembly parts)		PK265L-SET
	Right clamp set (standard assembly parts)		PK265R-SET

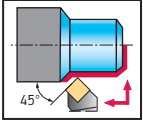
Shank tool – Rigid clamping

DSSN...-P

Walter Turn



– Precision cooling



Tool	Designation		h = h ₁ mm	b mm	b ₁ mm	f mm	l ₁ mm	l ₄ mm	γ	λ _s	Type	
	★ DSSNR/L2525X12-P		12	25	25	0	23,7	138,7	48	-8°	0°	SN .. 1204 ..

Measured with master insert: SN .. 120408
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: DSSNR2525X12-P/ordering example, left-hand tool: DSSNL2525X12-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	SN .. 1204 ..
	Shim	AP308-SN12
	Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm
	Left clamp	PK265L
	Right clamp	PK265R
	Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)

Accessories	Type	SN .. 1204 ..
	Left clamp set (standard assembly parts)	PK265L-SET
	Right clamp set (standard assembly parts)	PK265R-SET

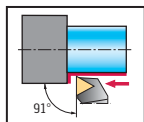
Shank tool – Rigid clamping

DTGN...-P inch

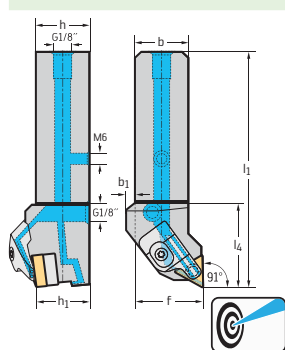
Walter Turn



– Precision cooling



Tool



Designation		h = h ₁ Inch	b Inch	b ₁ Inch	f Inch	l ₁ Inch	l ₄ Inch	γ	λ _s	Type	
DTGNR/L123B-P		0,375	0,750	0,750	0,000	1,000	4,500	1,516	-6°	-6°	TN .. 1604 ..
DTGNR/L163D-P		0,375	1,000	1,000	0,000	1,250	6,000	1,520	-6°	-6°	

Measured with master insert: TN .. 160408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

Ordering example, right-hand tool: DTGNR123B-P/ordering example, left-hand tool: DTGNL123B-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	TN .. 1604 ..
Shim	AP321-TN16
Screw for shim Tightening torque	FS1462 (Torx 9IP) 1,5 Nm
Left clamp	PK261L
Right clamp	PK261R
Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
Pressure spring	FS2188
G 1/8" threaded plug	FS2258 (SW 5)
M6 threaded plug	FS2288 (SW 3)
Torx key	FS1465 (Torx 15IP)

Accessories

Type	TN .. 1604 ..
Left clamp set (standard assembly parts)	PK261L-SET
Right clamp set (standard assembly parts)	PK261R-SET

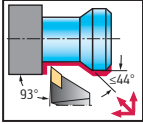
Shank tool – Rigid clamping


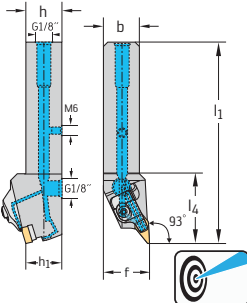
DVJN...-P

Walter Turn




– Precision cooling



Tool	Designation		$h = h_1$ mm	b mm	b_1 mm	f mm	l_1 mm	l_4 mm	γ	λ_s	Type
	DVJNR/L2020X16-P		16	20	20	4	25	125	-4°	-13°	VN .. 1604 ..
	DVJNR/L2525X16-P		16	25	25	0	32	140	-4°	-13°	

Measured with master insert: VN .. 160408
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 Ordering example, right-hand tool: DVJNR2020X16-P/ordering example, left-hand tool: DVJNL2020X16-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	VN .. 1604 ..
	Shim	AP312-VN16
	Screw for shim Tightening torque	FS1467 (Torx 15IP) 3,0 Nm
	Left clamp	PK261L
	Right clamp	PK261R
	Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)

Accessories	Type	VN .. 1604 ..
	Left clamp set (standard assembly parts)	PK261L-SET
	Right clamp set (standard assembly parts)	PK261R-SET

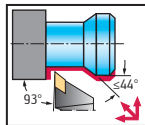
Shank tool – Rigid clamping

DVJN...-P inch

Walter Turn



– Precision cooling



Tool

Designation		$h = h_1$	b	b_1	f	l_1	l_4	γ	λ_s	Type
	Inch	Inch	Inch	Inch	Inch	Inch	Inch			
DVJNR/L123B-P	0,375	0,750	0,750	0,157	1,000	4,496	1,906	-4°	-13°	VN .. 1604 ..
DVJNR/L163D-P	0,375	1,000	1,000	0,000	1,250	5,996	1,906	-4°	-13°	

Measured with master insert: VN .. 160408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: DVJNR123B-P/ordering example, left-hand tool: DVJNL123B-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	VN .. 1604 ..
Shim	AP312-VN16
Screw for shim Tightening torque	FS1467 (Torx 15IP) 3,0 Nm
Left clamp	PK261L
Right clamp	PK261R
Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
Pressure spring	FS2188
G 1/8" threaded plug	FS2258 (SW 5)
M6 threaded plug	FS2288 (SW 3)
Torx key	FS1465 (Torx 15IP)

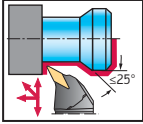
Accessories

Type	VN .. 1604 ..
Left clamp set (standard assembly parts)	PK261L-SET
Right clamp set (standard assembly parts)	PK261R-SET

Shank tool – Rigid clamping

DVTN inch

Walter Turn



Tool	Designation		$h = h_1$	b	f	l_1	l_4	γ	λ_s	Type
		Inch	Inch	Inch	Inch	Inch	Inch			
	★ DVTNR/L123B	0,375	0,750	0,750	1,000	4,500	1,543	-4°	-13°	VN .. 1604 ..
	DVTNR/L163D	0,375	1,000	1,000	1,250	6,000	1,544	-4°	-13°	
	DVTNR/L203D	0,375	1,250	1,250	1,500	6,000	1,544	-4°	-13°	

Measured with master insert: VN .. 160408
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"
 Ordering example, right-hand tool: DVTNR123B/ordering example, left-hand tool: DVTNL123B
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Type	VN .. 1604 ..
	Shim		AP312-VN16
	Screw for shim Tightening torque		FS1467 (Torx 15IP) 3,0 Nm
	Clamp		PK244
	Clamp screw Tightening torque		FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring		FS1470
	Pin		RS117
	Torx key		FS1465 (Torx 15IP)

Accessories		Type	VN .. 1604 ..
	Clamp set (standard assembly parts)		PK244-SET

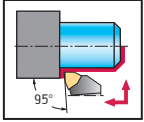
Shank tool – Rigid clamping

DWLN...-P


Walter Turn



– Precision cooling



Tool

Designation		$h = h_1$ mm	b mm	b_1 mm	f mm	l_1 mm	l_4 mm	γ	λ_s	Type
DWLNLR/L2020X08-P	8	20	20	0	25	120,0	43,5	-7°	-6°	WN .. 0804 ..
DWLNLR/L2525X08-P	8	25	25	0	32	135,0	43,5	-7°	-6°	

Measured with master insert: WN .. 080408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"





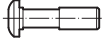




For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)



Ordering example, right-hand tool: DWLNLR2020X08-P/ordering example, left-hand tool: DWLNL2020X08-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	WN .. 0804 ..
 Shim	AP307-WN08
 Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm
 Left clamp	PK266L
 Right clamp	PK266R
 Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
 Pressure spring	FS2188
 G 1/8" threaded plug	FS2258 (SW 5)
 M6 threaded plug	FS2288 (SW 3)
 Torx key	FS1465 (Torx 15IP)

Accessories

Type	WN .. 0804 ..
 Left clamp set (standard assembly parts)	PK266L-SET
 Right clamp set (standard assembly parts)	PK266R-SET

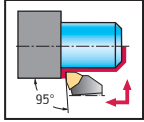
Shank tool – Rigid clamping

DWLN...-P inch

Walter Turn



– Precision cooling



Tool	Designation		h = h ₁		b		b ₁		f		l ₁		l ₄		γ	λ _s	Type
			Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch					
	DWLNLR/L124B-P		0,500	0,750	0,750	0,000	1,000	4,500	1,713	-6°	-6°	WN .. 0804 ..					
	DWLNLR/L164D-P		0,500	1,000	1,000	0,000	1,250	6,000	1,713	-7°	-6°						

Measured with master insert: WN .. 080408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

Ordering example, right-hand tool: DWLNLR124B-P/ordering example, left-hand tool: DWLNLR124B-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Type	WN .. 0804 ..
	Shim		AP307-WN08
	Screw for shim		FS1461 (Torx 15IP)
	Tightening torque		2,5 Nm
	Left clamp		PK266L
	Right clamp		PK266R
	Clamp screw		FS1473 (Torx 15IP)
	Tightening torque		3,9 Nm
	Pressure spring		FS2188
	G 1/8" threaded plug		FS2258 (SW 5)
	M6 threaded plug		FS2288 (SW 3)
	Torx key		FS1465 (Torx 15IP)

Accessories		Type	WN .. 0804 ..
	Left clamp set (standard assembly parts)		PK266L-SET
	Right clamp set (standard assembly parts)		PK266R-SET

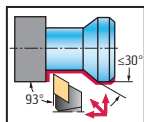
Shank tool – Rigid clamping


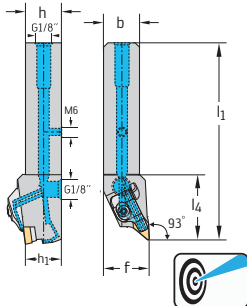
DDJC...-P

Walter Turn



– Precision cooling



Tool	Designation		$h = h_1$ mm	b mm	b_1 mm	f mm	l_1 mm	l_4 mm	γ	λ_s	Type	
	DDJCR/L2020X11-P		11	20	20	6	25	125	48,5	-3°	-7°	DC .. 11T3 ..
	DDJCR/L2525X11-P		11	25	25	0	32	140	48,5	-3°	-7°	

Measured with master insert: DC .. 11T308

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"







For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: DDJCR2020X11-P/ordering example, left-hand tool: DDJCL2020X11-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	Type	DC .. 11T3 ..
	Shim for radius	AP315-DC1108 $r \leq 0,8$ mm
	Screw for shim	FS2068 (SW 3,5)
	Left clamp	PK261L
	Right clamp	PK261R
	Clamp screw	FS1473 (Torx 15IP)
	Tightening torque	3,9 Nm
	Pressure spring	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)

Accessories

	Type	DC .. 11T3 ..
	Left clamp set (standard assembly parts)	PK261L-SET
	Right clamp set (standard assembly parts)	PK261R-SET

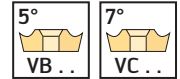
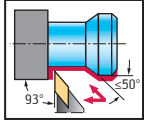
Shank tool – Rigid clamping

DVJB...-P

Walter Turn



– Precision cooling



Tool	Designation	h = h ₁		b	b ₁	f	l ₁	l ₄	γ	λ _s	Type
		mm	mm								
	DVJBR/L2020X16-P	16	20	20	4	25	125	48,5	-2°	-7°	VB .. 1604 ..
	DVJBR/L2525X16-P	16	25	25	0	32	140	48,5	-2°	-7°	VC .. 1604 ..

Measured with master insert: VB .. 160408
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: DVJBR2020X16-P/ordering example, left-hand tool: DVJBL2020X16-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	VB .. 1604 .. VC .. 1604 ..
	Shim	AP312-VN16
	Screw for shim Tightening torque	FS1467 (Torx 15IP) 3,0 Nm
	Left clamp	PK261L
	Right clamp	PK261R
	Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)

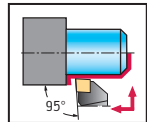
Accessories	Type	VB .. 1604 .. VC .. 1604 ..
	Left clamp set (standard assembly parts)	PK261L-SET
	Right clamp set (standard assembly parts)	PK261R-SET

Turning toolholders – Rigid clamping

C...-DCLN...-P

Walter Turn

- Precision cooling
- Walter Capto™



Tool	Designation		d ₁	f mm	l ₄ mm	γ	λ _s	Type
Walter Capto™ in acc. with ISO 26623 	C4-DCLNR/L-27050-12-P	12	C4	27	50	-6°	-6°	CN .. 1204 ..
	C5-DCLNR/L-35060-12-P	12	C5	35	60	-6°	-6°	
	C6-DCLNR/L-45065-12-P	12	C6	45	65	-6°	-6°	
	C8-DCLNR/L-55080-12-P	12	C8	55	80	-6°	-6°	
	★ C6-DCLNR/L-45065-16-P	16	C6	45	65	-6°	-6°	CN .. 1606 ..

Measured with master insert: CN .. 120408 / CN .. 160612

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: C4-DCLNR-27050-12-P/ordering example, left-hand tool: C4-DCLNL-27050-12-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	CN .. 1204 ..	CN .. 1606 ..
	Shim	AP301-CN12	AP302-CN16
	Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm	FS1463 (Torx 20IP) 5,0 Nm
	Clamp	PK255	PK267
	Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm	FS1474 (Torx 20IP) 6,4 Nm
	Pressure spring	FS2188	FS2298
	Torx key	FS1465 (Torx 15IP)	FS1464 (Torx 20IP)

Accessories	Type	CN .. 1204 ..	CN .. 1606 ..
	Clamp set (standard assembly parts)	PK255-SET	PK267-SET

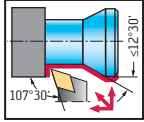
Turning toolholders – Rigid clamping

C...-DDHN...-P

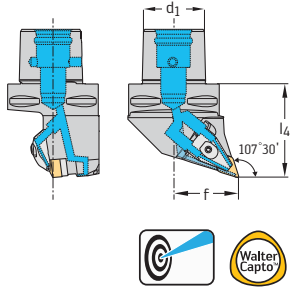


Walter Turn

- Precision cooling
- Walter Capto™



Tool			d_1	f mm	l_4 mm	γ	λ_s	Type
Walter Capto™ in acc. with ISO 26623	C6-DDHNR/L-45065-15-P	15	C6	45	65	-6°	7°	DN .. 1506 ..



Measured with master insert: DN .. 150608
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: C6-DDHNR-45065-15-P/ordering example, left-hand tool: C6-DDHNL-45065-15-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts		DN .. 1506 ..
	Shim	AP304-DN15
	Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm
	Clamp	PK256
	Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	Torx key	FS1465 (Torx 15IP)

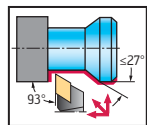
Accessories		DN .. 1506 ..
	Clamp set (standard assembly parts)	PK256-SET
	Shim for DN .. 1504 ..	AP304-DN1504

Turning toolholders – Rigid clamping

C...-DDJN...-P

Walter Turn

- Precision cooling
- Walter Capto™



Tool	Designation		d ₁	f mm	l ₄ mm	γ	λ _s	Type
	Walter Capto™ in acc. with ISO 26623							
	C4-DDJNR/L-27055-11-P	11	C4	27	55	-6°	-7°	DN .. 1104 ..
	C4-DDJNR/L-27055-15-P	15	C4	27	55	-6°	-7°	DN .. 1506 ..
	C5-DDJNR/L-35060-15-P	15	C5	35	60	-6°	-7°	
	C6-DDJNR/L-45065-15-P	15	C6	45	65	-6°	-7°	
C8-DDJNR/L-55080-15-P	15	C8	55	80	-6°	-7°		

Measured with master insert: DN .. 110408 / DN .. 150608

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: C4-DDJNR-27055-11-P/ordering example, left-hand tool: C4-DDJNL-27055-11-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	DN .. 1104 ..	DN .. 1506 ..
	Shim	AP305-DN11	AP304-DN15
	Screw for shim Tightening torque	FS1462 (Torx 9IP) 1,5 Nm	FS1461 (Torx 15IP) 2,5 Nm
	Clamp	PK255	PK256
	Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188	FS2188
	Torx key	FS1465 (Torx 15IP)	FS1465 (Torx 15IP)

Accessories	Type	DN .. 1104 ..	DN .. 1506 ..
	Clamp set (standard assembly parts)	PK255-SET	PK256-SET
	Shim for DN .. 1504 ..		AP304-DN1504

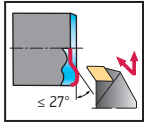
Turning toolholders – Rigid clamping

C...-DDUN...-P

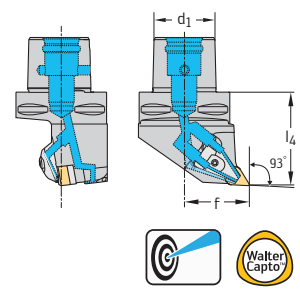
Walter Turn



- Precision cooling
- Walter Capto™



Tool	Designation		d_1	f mm	l_4 mm	γ	λ_s	Type
Walter Capto™ in acc. with ISO 26623	C6-DDUNR/L-45065-15-P	15	C6	45	65	-7°	-6°	DN .. 1506 ..



Measured with master insert: DN .. 150608
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: C6-DDUNR-45065-15-P/ordering example, left-hand tool: C6-DDUNL-45065-15-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	DN .. 1506 ..
	Shim	AP304-DN15
	Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm
	Clamp	PK256
	Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	Torx key	FS1465 (Torx 15IP)

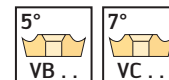
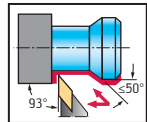
Accessories	Type	DN .. 1506 ..
	Clamp set (standard assembly parts)	PK256-SET
	Shim for DN .. 1504 ..	AP304-DN1504

Turning toolholders – Rigid clamping

C...-DVJB...-P

Walter Turn

- Precision cooling
- Walter Capto™



Tool	Designation		d_1	f mm	l_4 mm	γ	λ_s	Type
Walter Capto™ in acc. with ISO 26623	C4-DVJBR/L-27062-16-P	16	C4	27	62	-2°	-7°	VB .. 1604 .. VC .. 1604 ..
	C5-DVJBR/L-35065-16-P	16	C5	35	65	-2°	-7°	
	C6-DVJBR/L-45065-16-P	16	C6	45	65	-2°	-7°	
	C8-DVJBR/L-55080-16-P	16	C8	55	65	-2°	-7°	

Measured with master insert: VB .. 160408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: C4-DVJBR-27062-16-P/ordering example, left-hand tool: C4-DVJBL-27062-16-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	VB .. 1604 .. VC .. 1604 ..
	Shim	AP312-VN16
	Screw for shim Tightening torque	FS1467 (Torx 15IP) 3,0 Nm
	Left clamp	PK261L
	Right clamp	PK261R
	Clamp screw Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	Torx key	FS1465 (Torx 15IP)

Accessories	Type	VB .. 1604 .. VC .. 1604 ..
	Left clamp set (standard assembly parts)	PK261L-SET
	Right clamp set (standard assembly parts)	PK261R-SET

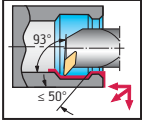
Boring bar – Rigid clamping

A...-DVUN inch

Walter Turn



– A = Steel version with internal cooling



Tool			D_{min}	d_1	f	h	l_1	γ	λ_s	Type
Designation			Inch	Inch	Inch	Inch	Inch			
	★ A20T-DVUNR/L3	0,375	1,705	1,250	1,000	1,181	12,000	-6°	-9°	VN .. 1604 ..
	★ A24T-DVUNR/L3	0,375	2,000	1,500	1,125	1,374	12,000	-6°	-8°	

Measured with master insert: VN .. 160408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

Ordering example, right-hand tool: A20T-DVUNR3/ordering example, left-hand tool: A20T-DVUNL3

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Type	VN .. 1604 ..
	Shim		AP312-VN16
	Screw for shim Tightening torque		FS1467 (Torx 15IP) 3,0 Nm
	Clamp		PK244
	Clamp screw Tightening torque		FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring		FS1470
	Pin		RS117
	Torx key		FS1465 (Torx 15IP)

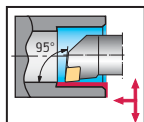
Accessories		Type	VN .. 1604 ..
	Clamp set (standard assembly parts)		PK244-SET

Boring bar – Screw clamping

A...-SCLP / E...-SCLP inch

Walter Turn

- A = Steel version with internal cooling
- E = Solid carbide version with internal cooling



Tool

Designation	(in)	D_{min} Inch	d_1 Inch	f Inch	h Inch	l_1 Inch	γ	λ_s	Type	
★ A05K-SCLPR/L2		0,250	0,413	0,313	0,219	0,272	5,000	0°	-9°	CP .. 0602 ..
★ A06M-SCLPR/L2		0,250	0,480	0,375	0,250	0,336	6,000	4°	-6,5°	
★ A08M-SCLPR/L2		0,250	0,598	0,500	0,312	0,460	6,000	6°	-2,6°	
★ A10R-SCLPR/L2		0,250	0,772	0,625	0,406	0,562	8,000	0°	5°	
★ A12S-SCLPR/L3		0,375	0,929	0,750	0,500	0,709	10,000	0°	-6,3°	CP .. 09T3 ..
★ A16T-SCLPR/L3		0,375	1,201	1,000	0,639	0,906	14,173	6°	1°	
★ E06M-SCLPR/L2		0,250	0,480	0,375	0,250	0,359	6,000	4°	-7°	CP .. 0602 ..
★ E08R-SCLPR/L2		0,250	0,598	0,500	0,312	0,484	8,000	6°	-3°	

Measured with master insert: CP.. 060204 / CP .. 09T304

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

Ordering example, right-hand tool: A05K-SCLPR2/ordering example, left-hand tool: A05K-SCLPL2

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

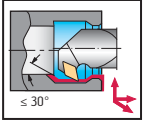
Type	D_{min} [Inch]	CP .. 0602 .. 0,413–0,598	CP .. 0602 .. 0,772	CP .. 09T3 .. 0,929	CP .. 09T3 .. 1,201
Clamping screw for indexable insert Tightening torque		FS2066 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS2062 (Torx 15IP) 3,0 Nm	FS2063 (Torx 15IP) 3,0 Nm
Torx key		FS1490 (Torx 7IP)	FS1490 (Torx 7IP)	FS1465 (Torx 15IP)	FS1465 (Torx 15IP)

Boring bar – Screw clamping

A...-SDUC...-X inch

Walter Turn

- A = Steel version with internal cooling
- Reverse copy boring bar



Tool	Designation		D_{min} Inch	d_1 Inch	f Inch	h Inch	l_1 Inch	γ	λ_s	Type
	★ A16T-SDUCR/L2-X	0,250	1,299	1,000	0,750	0,906	12,000	0°	-0,9°	DC .. 0702 ..
	★ A20T-SDUCR/L3-X	0,375	1,579	1,250	0,875	1,181	12,000	0°	-7,5°	DC .. 11T3 ..

Measured with master insert: DC .. 070204 / DC .. 11T308

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

Ordering example, right-hand tool: A16T-SDUCR2-X/ordering example, left-hand tool: A16T-SDUCL2-X

Bodies and assembly parts are included in the scope of delivery.

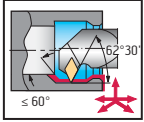
Assembly parts	Type	DC .. 0702 ..	DC .. 11T3 ..
	Clamping screw for indexable insert Tightening torque	FS2061 (Torx 7IP) 0,9 Nm	FS2062 (Torx 15IP) 3,0 Nm
	Torx key	FS1490 (Torx 7IP)	FS1465 (Torx 15IP)


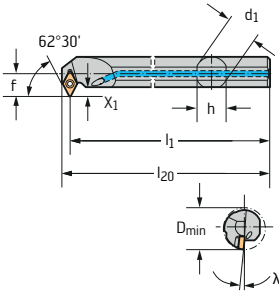

Boring bar – Screw clamping

A...-SDXC...-X

Walter Turn

- A = Steel version with internal cooling
- Forwards/reverse copy boring bar




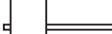
Tool	Designation		D_{min} mm	d_1 mm	f mm	h mm	l_1 mm	l_{20} mm	γ	λ_s	Type	
	★ A25T-SDXCR/L11-X		11	32	25	17	23	300	306,8	-2°	-3°	DC .. 11T3 ..

Measured with master insert: DC .. 11T308

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

Ordering example, right-hand tool: A25T-SDXCR11-X/ordering example, left-hand tool: A25T-SDXCL11-X

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Type	DC .. 11T3 ..
	Clamping screw for indexable insert Tightening torque		FS2062 (Torx 15IP) 3,0 Nm
Accessories		Type	DC .. 11T3 ..
	Torx key		FS1465 (Torx 15IP)

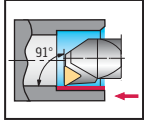
Boring bar – Screw clamping

A...-STFC / E...-STFC inch

Walter Turn



- A = Steel version with internal cooling
- E = Solid carbide version with internal cooling



Tool	Designation		D _{min} Inch	d ₁ Inch	f Inch	h Inch	l ₁ Inch	γ	λ _s	Type	
	A06M-STFCR/L2		0,250	0,500	0,375	0,250	0,336	6,000	0°	-10,1°	TC .. 1102 ..
	A08M-STFCR/L2		0,250	0,598	0,500	0,312	0,460	6,000	0°	-7,2°	
	A10R-STFCR/L2		0,250	0,772	0,625	0,406	0,562	8,000	0°	-4,7°	
	A12S-STFCR/L2		0,250	0,929	0,750	0,500	0,709	10,000	0°	-3,2°	
	A16T-STFCR/L3		0,375	1,201	1,000	0,640	0,906	12,000	0°	-3,8°	TC .. 16T3 ..
	A20T-STFCR/L3		0,375	1,469	1,250	0,765	1,181	12,000	0°	-8,7°	
	A24T-STFCR/L3		0,375	1,760	1,500	0,890	1,374	12,000	0°	-6,8°	
	★ E06M-STFCR/L1.8		0,219	0,500	0,375	0,264	0,359	6,000	0°	-9,5°	TC .. 0902 ..
	★ E08R-STFCR/L1.8		0,219	0,630	0,500	0,349	0,460	8,000	0°	-7°	
	★ E10R-STFCR/L2		0,250	0,772	0,625	0,406	0,609	8,000	0°	-6°	TC .. 1102 ..
	★ E12S-STFCR/L2		0,250	0,929	0,750	0,500	0,734	10,000	0°	-4°	
	★ E16T-STFCR/L3		0,375	1,201	1,000	0,640	0,984	12,000	0°	-4°	TC .. 16T3 ..

Measured with master insert: TC .. 110204 / TC .. 16T308 / TC .. 090204 / TC .. 110200

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

Ordering example, right-hand tool: A06M-STFCR2/ordering example, left-hand tool: A06M-STFCL2

Bodies and assembly parts are included in the scope of delivery.

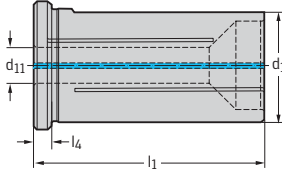
Assembly parts	Type	TC .. 0902 ..	TC .. 1102 ..	TC .. 1102 ..	TC .. 16T3 ..	TC .. 16T3 ..
	D _{min} [Inch]	0,500–0,630	0,500–0,598	0,772–0,929	1,201	1,469–1,760
	Clamping screw for indexable insert Tightening torque	FS2149 (Torx 7IP) 0,9 Nm	FS2067 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS2063 (Torx 15IP) 3,0 Nm	FS2060 (Torx 15IP) 3,0 Nm
	Torx key	FS1490 (Torx 7IP)	FS1490 (Torx 7IP)	FS1490 (Torx 7IP)	FS1465 (Torx 15IP)	FS1465 (Torx 15IP)
	Shim for radius					AP317-TC1612 r ≤ 1,2 mm
	Clamping screw for shim					FS2068 (SW 3,5)

Boring bar adaptor

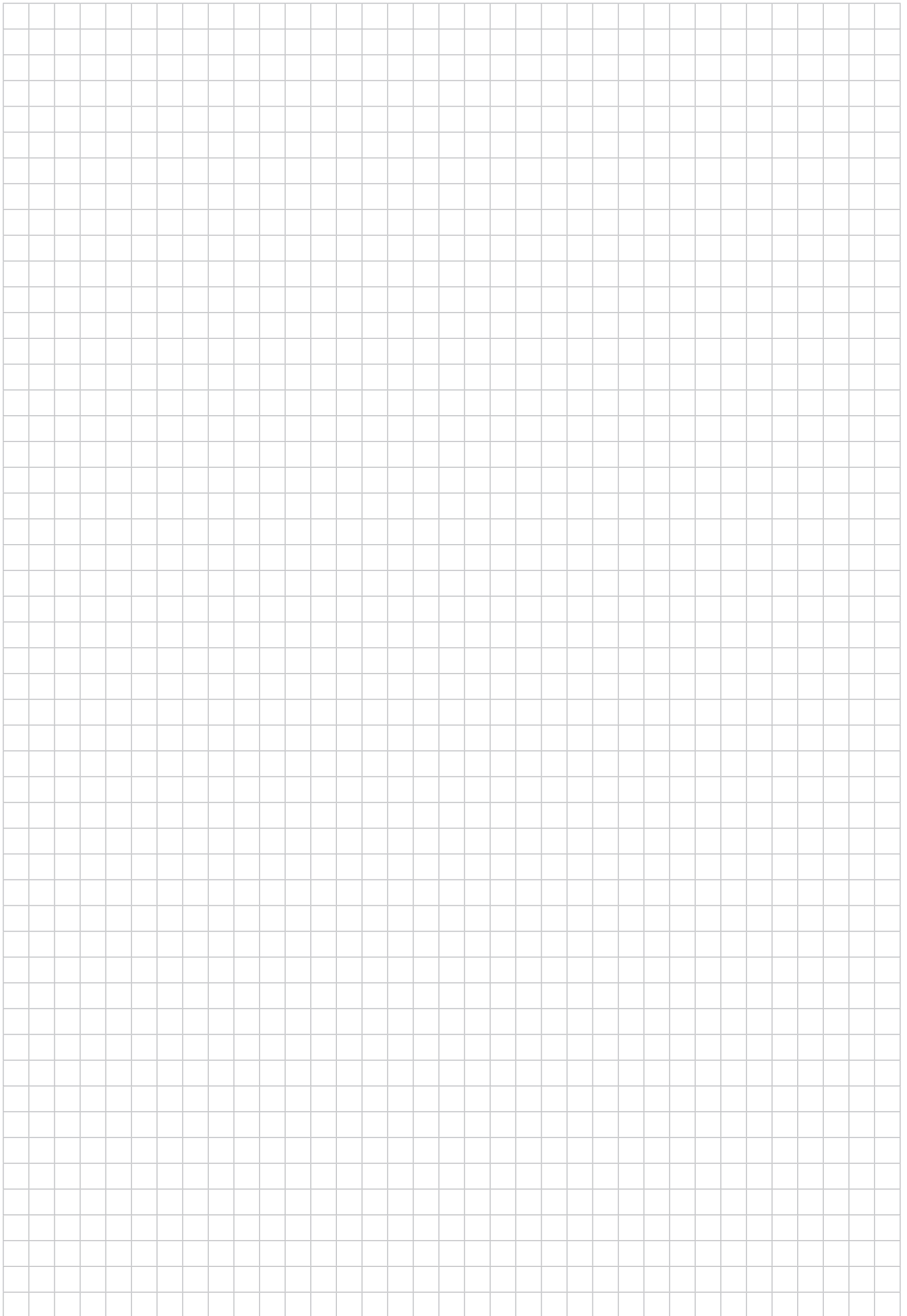
A2140-W



- With Weldon shank in accordance with DIN 9766
- Self-centring for cylindrical round shank

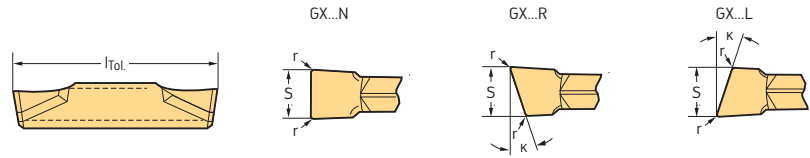
Tool	Designation	d ₁ mm	d ₁₁ mm	l ₁ mm	l ₄ mm	kg
Parallel shank with surface in accordance with ISO 9766 	A2140-W25-R06-061	25	6	61	5	0,2
	A2140-W25-R08-061	25	8	61	5	0,2
	A2140-W25-R10-061	25	10	61	5	0,2
	A2140-W25-R12-061	25	12	61	5	0,2
	A2140-W25-R16-061	25	16	61	5	0,1
	A2140-W32-R06-065	32	6	65	5	0,3
	A2140-W32-R08-065	32	8	65	5	0,3
	A2140-W32-R10-065	32	10	65	5	0,3
	A2140-W32-R12-065	32	12	65	5	0,3
	A2140-W32-R16-065	32	16	65	5	0,3
	A2140-W32-R20-065	32	20	65	5	0,2
	A2140-W40-R06-075	40	6	75	5	0,6
	A2140-W40-R08-075	40	8	75	5	0,6
	A2140-W40-R10-075	40	10	75	5	0,6
	A2140-W40-R12-075	40	12	75	5	0,6
	A2140-W40-R16-075	40	16	75	5	0,6
	A2140-W40-R20-075	40	20	75	5	0,6
	A2140-W40-R25-075	40	25	75	5	0,5

Comment: Groove for self-centring is present on all Walter Turn boring bars with fully rounded shank (-R) dia. 6–25 mm.





Grooving and parting off GX cutting inserts Tiger-tec® Silver

A2



Cutting inserts

Designation	s mm	r mm	k	l mm	f mm	S _{Tol} mm	l _{Tol} mm	P				M			K	N	S		
								HC				HC			HC	HW	HC		
								WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WK1	WSM23S	WSM33S	WSM43S
 GX16-1E200N02-CK8	2	0,2		16,6	0,04-0,12	±0,02	±0,03									☺			
GX16-2E300N02-CK8	3	0,2		16,6	0,08-0,20	±0,02	±0,03									☺			
GX24-2E300N02-CK8	3	0,2		24,6	0,08-0,20	±0,02	±0,03									☺			
GX24-3E400N02-CK8	4	0,2		24,6	0,10-0,22	±0,02	±0,03									☺			
 GX16-1E200N00-CF5	2	0		16,6	0,03-0,10	±0,05	±0,05		☺	☺	☺	☺	☺	☺				☺	☺
GX16-1E200N02-CF5	2	0,2		16,6	0,04-0,12	±0,05	±0,15		☺	☺	☺	☺	☺	☺			☺		☺
GX16-1E200R/L6-CF5	2	0,2	6°	16,6	0,03-0,10	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX16-1E200R/L7-CF5	2	0	7°	16,4	0,03-0,10	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX16-1E200R/L15-CF5	2	0	15°	16,4	0,03-0,10	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX16-1E250N02-CF5	2,5	0,2		16,6	0,05-0,15	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX16-1E250R/L6-CF5	2,5	0,2	6°	16,6	0,03-0,12	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX16-2E300N02-CF5	3	0,2		16,6	0,08-0,20	±0,05	±0,15		☺	☺	☺	☺	☺	☺			☺		☺
GX16-2E300R/L6-CF5	3	0,2	6°	16,6	0,04-0,16	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX16-2E300R/L7-CF5	3	0	7°	16,6	0,04-0,13	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX16-2E300R/L15-CF5	3	0	15°	16,6	0,04-0,13	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX24-1E200N02-CF5	2	0,2		24	0,04-0,12	±0,05	±0,15		☺	☺	☺	☺	☺	☺			☺		☺
GX24-1E250N02-CF5	2,5	0,2		24	0,05-0,15	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX24-2E300N00-CF5	3	0		24,6	0,04-0,16	±0,05	±0,05		☺	☺	☺	☺	☺	☺				☺	☺
GX24-2E300N02-CF5	3	0,2		24	0,08-0,20	±0,05	±0,15		☺	☺	☺	☺	☺	☺			☺		☺
GX24-2E300R/L6-CF5	3	0,2	6°	24,6	0,04-0,16	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX24-3E400N02-CF5	4	0,2		24	0,10-0,22	±0,05	±0,15		☺	☺	☺	☺	☺	☺			☺		☺
GX24-3E400R/L6-CF5	4	0,2	6°	24,6	0,10-0,18	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX24-3E500N03-CF5	5	0,3		24	0,10-0,25	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX34-2E300N03-CF5	3	0,3		34	0,08-0,20	±0,05	±0,15		☺	☺	☺	☺	☺	☺			☺		☺
GX34-2E300R/L6-CF5	3	0,3	6°	34	0,04-0,16	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX34-3E400N04-CF5	4	0,4		34	0,10-0,22	±0,05	±0,15		☺	☺	☺	☺	☺	☺			☺		☺

 l_{Tol} = Repeat accuracy when changing indexable insert

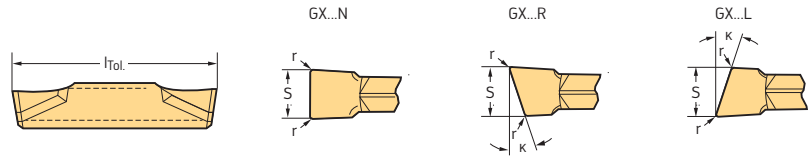
 Radius tolerance r_{Tol} = ± 0.05 mm

Parting off with diameters up to 32 mm is possible with GX16 inserts (l = 16.6 mm)



HC = Coated carbide

HW = Uncoated carbide

Grooving and parting off GX cutting inserts Tiger-tec® Silver

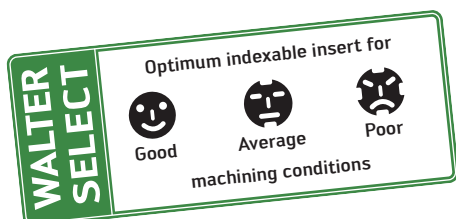


Cutting inserts

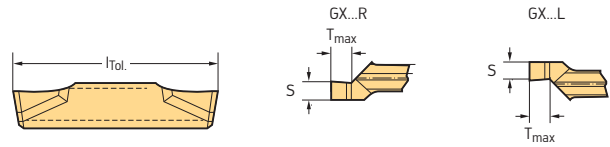
Designation	s mm	r mm	κ	l mm	f mm	S _{Tol} mm	l _{Tol} mm	P				M			K	N	S		
								HC				HC			HC	HW	HC		
								WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WK1	WSM23S	WSM33S	WSM43S
 GX16-1E200N02-CE4	2	0,2		16,6	0,06–0,15	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺			☺	☺	☺
GX16-1E200R/L6-CE4	2	0,2	6°	16,6	0,04–0,10	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX16-1E250N02-CE4	2,5	0,2		16,6	0,07–0,18	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX16-1E250R/L6-CE4	2,5	0,2	6°	16,6	0,05–0,12	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX16-2E300N02-CE4	3	0,2		16,6	0,09–0,30	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺			☺	☺	☺
GX16-2E300R/L6-CE4	3	0,2	6°	16,6	0,09–0,24	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX24-1E200N02-CE4	2	0,2		24	0,06–0,15	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺			☺	☺	☺
GX24-1E250N02-CE4	2,5	0,2		24	0,07–0,18	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX24-2E300N02-CE4	3	0,2		24	0,09–0,30	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺			☺	☺	☺
GX24-2E300R/L6-CE4	3	0,2	6°	24,6	0,09–0,24	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX24-3E400N03-CE4	4	0,3		24	0,10–0,32	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺			☺	☺	☺
GX24-3E400R/L6-CE4	4	0,2	6°	24,6	0,10–0,26	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX24-3E500N03-CE4	5	0,3		24	0,12–0,35	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX24-4E600N03-CE4	6	0,3		24	0,12–0,40	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX34-2E300R6-CE4	3	0,3	6°	34	0,09–0,24	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX34-2E300N03-CE4	3	0,3		34	0,09–0,30	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX34-2E300L6-CE4	3	0,3	6°	34	0,09–0,24	±0,05	±0,15		☺	☺	☺	☺	☺	☺				☺	☺
GX34-3E400N04-CE4	4	0,4		34	0,10–0,32	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
 GX16-1E200N02-GD6	2	0,2		16	0,04–0,12	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺			☺	☺	☺
GX16-1E250N02-GD6	2,5	0,2		16	0,06–0,17	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX16-2E300N03-GD6	3	0,3		16	0,08–0,18	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX16-3E400N04-GD6	4	0,4		16	0,10–0,22	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX16-3E500N04-GD6	5	0,4		16	0,12–0,24	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX24-2E300N03-GD6	3	0,3		24	0,08–0,18	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX24-3E400N04-GD6	4	0,4		24	0,10–0,22	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX24-3E500N04-GD6	5	0,4		24	0,12–0,24	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX24-4E600N05-GD6	6	0,5		24	0,14–0,30	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX34-2E300N03-GD6	3	0,3		34	0,08–0,20	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺
GX34-3E400N04-GD6	4	0,4		34	0,10–0,22	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺				☺	☺

l_{Tol} = Repeat accuracy when changing indexable insert
 Radius tolerance r_{Tol} = ± 0,05 mm
 Parting off with diameters up to 32 mm is possible with GX16 inserts (l = 16,6 mm)


HC = Coated carbide
 HW = Uncoated carbide



Grooving and parting off GX cutting inserts Tiger-tec® Silver



Cutting inserts

Designation	s mm	r mm	T _{max} mm	l mm	f mm	S _{Tol} mm	l _{Tol} mm	P				M				K		S		
								HC				HC				HC		HC		
								WKP23S	WSM23S	WSM33S	WSM43S	WSP23S	WSM33S	WSM43S	WKP23S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S
 GX09-1E100R/L00-GD8	1	0	1,14	9	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX09-1E120R/L00-GD8	1,2	0	1,34	9	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX09-1E140R/L00-GD8	1,4	0	1,53	9	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX16-2E100R/L00-GD8	1	0	1,14	16	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX16-2E120R/L00-GD8	1,2	0	1,34	16	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX16-2E140R/L00-GD8	1,4	0	1,53	16	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

l_{Tol} = Repeat accuracy when changing indexable insert

Radius tolerance r_{Tol} = ± 0.05 mm

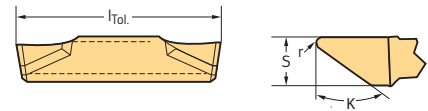
Cutting insert can be used in G15... / NCCE / NCNE / NCCI tools

With other tools, adapt support to the cutting insert profile


Further cutting inserts for circlip grooves: GX...UF8 / MX22...GD8 / MX22...CF5

HC = Coated carbide

Grooving and recessing GX cutting inserts Tiger-tec® Silver



Cutting inserts

Designation	s mm	r mm	κ	l mm	f mm	a _p mm	S _{Tol} mm	l _{Tol} mm	P				M				K		S		
									HC				HC				HC		HC		
									WKP23S	WSM23S	WSM33S	WSM43S	WSP23S	WSM33S	WSM43S	WKP23S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S
 GX24-2E280R02-VG7	2,8	0,2	50°	24	0,05-0,12	0,2-2,0	±0,05	±0,15	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	
GX24-2E280R04-VG7	2,8	0,4	50°	24	0,08-0,25	0,2-2,5	±0,05	±0,15	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	

l_{Tol} = Repeat accuracy when changing indexable insert

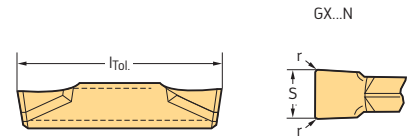
Radius tolerance r_{Tol} = ± 0.05 mm

Cutting insert can be used in G15... / NCCE / NCNE / NCCI tools

With other tools, adapt support to the cutting insert profile

HC = Coated carbide

Grooving and recessing GX cutting inserts Tiger-tec® Silver



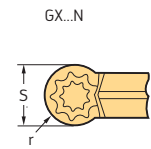
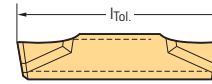
Cutting inserts

Designation	s mm	r mm	l mm	f mm	a _p mm	S _{Tol} mm	l _{Tol} mm	P			M			K		S		
								HC			HC			HC		HC		
								WKP23S	WSM23S	WSM33S	WSM43S	WSP23S	WSM23S	WSM33S	WSP23S	WSM23S	WSM33S	WSM43S
GX09-0E170N01-UF8	1,7	0,1	9	0,05-0,15	0,3-0,8	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX09-0E196N01-UF8	1,96	0,1	9	0,05-0,15	0,3-0,8	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX09-1E225N01-UF8	2,25	0,1	9	0,05-0,20	0,3-1,0	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX09-1E275N01-UF8	2,75	0,1	9	0,05-0,22	0,3-1,3	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX09-2E325N01-UF8	3,25	0,1	9	0,07-0,24	0,4-1,5	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-0E160N01-UF8	1,6	0,1	16	0,05-0,17	0,3-1,0	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-0E170N01-UF8	1,7	0,1	16	0,05-0,17	0,3-1,0	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-0E185N01-UF8	1,85	0,1	16	0,05-0,22	0,3-1,0	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-0E196N01-UF8	1,96	0,1	16	0,05-0,22	0,3-1,2	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-1E200N02-UF8	2	0,2	16	0,05-0,22	0,3-1,2	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-1E225N01-UF8	2,25	0,1	16	0,05-0,22	0,3-1,3	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-1E239N02-UF8	2,39	0,2	16	0,05-0,22	0,3-1,3	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-1E275N01-UF8	2,75	0,1	16	0,06-0,22	0,3-1,3	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-2E300N02-UF8	3	0,2	16	0,07-0,24	0,4-1,5	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-2E318N02-UF8	3,18	0,2	16	0,07-0,24	0,4-1,6	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-2E325N01-UF8	3,25	0,1	16	0,07-0,24	0,4-1,6	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-3E400N04-UF8	4	0,4	16	0,09-0,30	0,9-2,2	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-3E425N02-UF8	4,25	0,2	16	0,09-0,30	0,5-2,2	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX16-3E525N02-UF8	5,25	0,2	16	0,11-0,35	0,9-2,6	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-1E239N02-UF8	2,39	0,2	24	0,05-0,22	0,3-1,3	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-1E275N01-UF8	2,75	0,1	24	0,05-0,22	0,3-1,3	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-2E300N02-UF8	3	0,2	24	0,07-0,24	0,4-1,5	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-2E300N04-UF8	3	0,4	24	0,07-0,24	0,4-1,5	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-2E318N02-UF8	3,18	0,2	24	0,07-0,24	0,4-1,6	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-2E325N01-UF8	3,25	0,1	24	0,07-0,24	0,4-1,6	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-3E400N02-UF8	4	0,2	24	0,09-0,30	0,3-2,2	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-3E400N04-UF8	4	0,4	24	0,09-0,30	0,5-2,2	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-3E425N02-UF8	4,25	0,2	24	0,09-0,30	0,5-2,2	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-3E475N05-UF8	4,75	0,5	24	0,09-0,30	0,6-2,4	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-3E500N02-UF8	5	0,2	24	0,11-0,35	0,3-2,6	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-3E500N04-UF8	5	0,4	24	0,11-0,35	0,6-2,6	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-3E500N08-UF8	5	0,8	24	0,11-0,35	0,9-2,6	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-3E525N02-UF8	5,25	0,2	24	0,11-0,35	0,9-2,6	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-3E556N05-UF8	5,56	0,5	24	0,11-0,35	0,6-2,8	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-4E600N02-UF8	6	0,2	24	0,11-0,35	0,3-3,2	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-4E600N04-UF8	6	0,4	24	0,11-0,35	0,6-3,2	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-4E600N08-UF8	6	0,8	24	0,11-0,35	0,9-3,2	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-4E635N04-UF8	6,35	0,4	24	0,11-0,35	0,6-3,4	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX24-4E635N08-UF8	6,35	0,8	24	0,11-0,35	0,9-3,4	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
GX30-5E800N08-UF8	8	0,8	30	0,13-0,40	1,0-4,2	±0,02	±0,03	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	

l_{Tol} = Repeat accuracy when changing indexable insert
 Radius tolerance r_{Tol} = ± 0.05 mm

HC = Coated carbide

Grooving and copy turning GX cutting inserts Tiger-tec® Silver



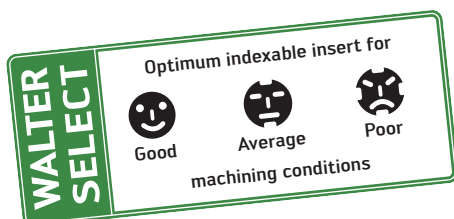
A2

Cutting inserts

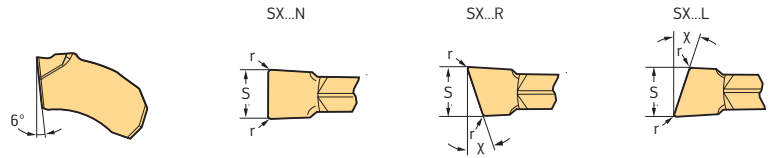
Designation	s mm	r mm	l mm	f mm	a _p mm	S _{Tol} mm	l _{Tol} mm	P					M				K		S						
								HC					HC				HC		HC						
								WKP23S	WSM13S	WSM23S	WSM33S	WSM43S	WSM13S	WSM23S	WSM33S	WSM43S	WKP23S	WSM13S	WSM23S	WSM33S	WSM43S	WKP23S	WSM13S	WSM23S	WSM33S
GX09-1E200N10-RF8	2	1	9	0,05-0,17	0,1-1,0	±0,02	±0,02			☺															
GX09-1E239N12-RF8	2,39	1,20	9	0,05-0,20	0,2-1,2	±0,02	±0,02			☺															
GX16-1E200N10-RF8	2	1	16	0,08-0,25	0,1-1,0	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX16-1E239N12-RF8	2,39	1,20	16	0,08-0,28	0,2-1,2	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX16-2E300N15-RF8	3	1,5	16	0,10-0,30	0,1-1,5	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX16-3E400N20-RF8	4	2	16	0,12-0,45	0,1-2,0	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX16-3E500N25-RF8	5	2,5	16	0,15-0,10	0,2-2,5	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX16-4E600N30-RF8	6	3	16	0,15-0,55	0,1-3,0	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX24-2E300N15-RF8	3	1,5	24	0,10-0,30	0,1-1,5	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX24-2E318N16-RF8	3,18	1,59	24	0,10-0,30	0,1-1,5	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX24-3E400N20-RF8	4	2	24	0,12-0,45	0,1-2,0	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX24-3E475N24-RF8	4,75	2,38	24	0,15-0,50	0,1-2,3	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX24-3E500N25-RF8	5	2,5	24	0,15-0,50	0,1-2,5	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX24-4E600N30-RF8	6	3	24	0,15-0,55	0,1-3,0	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX24-4E635N32-RF8	6,35	3,18	24	0,15-0,55	0,1-3,0	±0,02	±0,02			☺	☺			☺	☺						☺	☺			
GX30-5E800N40-RF8	8	4	30	0,18-0,60	0,2-4,0	±0,02	±0,02			☺	☺			☺	☺						☺	☺			

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.05 mm

HC = Coated carbide



Grooving and parting off SX cutting inserts Tiger-tec® Silver



Cutting inserts

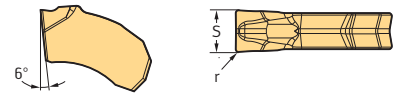
Designation	s mm	r mm	k	f mm	S _{Tol} mm	l _{Tol} mm	P				M		K	N	S		
							HC				HC		HC	HW	HC		
							WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WK1	WSM23S	WSM33S
SX-2E200N02-CK8	2	0,2		0,04–0,12	±0,02	±0,05								☺			
SX-3E300N02-CK8	3	0,2		0,08–0,20	±0,02	±0,05								☺			
SX-4E400N02-CK8	4	0,2		0,10–0,22	±0,02	±0,05								☺			
SX-5E500N04-CK8	5	0,4		0,10–0,25	±0,02	±0,05								☺			
SX-6E600N04-CK8	6	0,4		0,10–0,30	±0,02	±0,05								☺			
SX-1E150N01-CF6	1,5	0,15		0,03–0,10	±0,05	±0,1		☺	☺		☺	☺				☺	☺
SX-2E200N02-CF6	2	0,2		0,03–0,12	±0,05	±0,1		☺	☺		☺	☺				☺	☺
SX-3E300N02-CF6	3	0,2		0,04–0,20	±0,05	±0,1		☺	☺		☺	☺				☺	☺
SX-1E150N01-CE4	1,5	0,15		0,03–0,12	±0,05	±0,1		☺	☺		☺	☺				☺	☺
SX-1E150R/L6-CE4	1,5	0,15	6°	0,03–0,08	±0,05	±0,1		☺	☺		☺	☺				☺	☺
SX-2E200N02-CE4	2	0,2		0,06–0,15	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-2E200R/L6-CE4	2	0,2	6°	0,06–0,10	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-2E260N03-CE4	2,6	0,3		0,06–0,18	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-3E300N02-CE4	3	0,2		0,09–0,30	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-3E300R/L6-CE4	3	0,2	6°	0,09–0,20	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-3E310N03-CE4	3,1	0,3		0,09–0,30	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-4E400N02-CE4	4	0,2		0,10–0,32	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-4E400R/L6-CE4	4	0,2	6°	0,10–0,22	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-4E410N03-CE4	4,1	0,3		0,10–0,32	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-4E480N03-CE4	4,8	0,3		0,12–0,35	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-5E500N04-CE4	5	0,4		0,12–0,35	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-5E500R/L6-CE4	5	0,4	6°	0,12–0,25	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-6E600N04-CE4	6	0,4		0,12–0,40	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-6E600R/L6-CE4	6	0,4	6°	0,12–0,30	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-8E800N08-CE4	8	0,8		0,20–0,55	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺
SX-10E1000N08-CE4	10	0,8		0,25–0,60	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺			☺	☺

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.05 mm

HC = Coated carbide
HW = Uncoated carbide

Grooving and recessing SX cutting inserts

Tiger-tec® Silver



A2

Cutting inserts

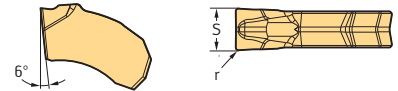
Designation	s mm	r mm	l mm	f mm	a _p mm	S _{Tol} mm	l _{Tol} mm	P		M		K	S		
								HC	HC	HC	HC	HC			
								WKP23S	WSM33S	WSM43S	WSM33S	WSM43S	WKP23S	WSM33S	WSM43S
SX-8E800N08-UF4	8	0,8	17,4	0,18–0,55	0,9–4,0	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺	☺

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.05 mm

HC = Coated carbide

Slitting SX cutting inserts

Tiger-tec® Silver



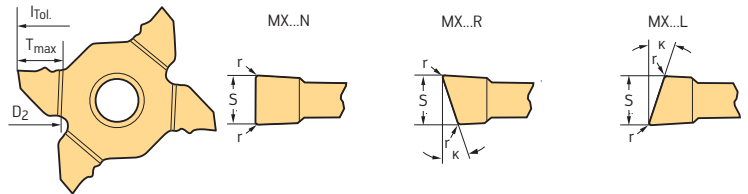
Cutting inserts

Designation	s mm	r mm	f mm	S _{Tol} mm	l _{Tol} mm	P		M		K	N	S		
						HC	HC	HC	HC	HW	HC			
						WKP23S	WSM33S	WSM43S	WSM33S	WSM43S	WKP23S	WK1	WSM33S	WSM43S
SX-1E150N01-SK8	1,5	0,1	0,03–0,08	±0,02	±0,05						☺			
SX-2E200N02-SK8	2	0,2	0,05–0,10	±0,02	±0,05						☺			
SX-3E300N02-SK8	3	0,2	0,05–0,15	±0,02	±0,05						☺			
SX-4E400N02-SK8	4	0,2	0,05–0,20	±0,02	±0,05						☺			
SX-5E500N04-SK8	5	0,4	0,05–0,25	±0,02	±0,05						☺			
SX-6E600N04-SK8	6	0,4	0,05–0,30	±0,02	±0,05						☺			
SX-1E150N01-SF5	1,5	0,15	0,03–0,10	±0,05	±0,1	☺	☺	☺	☺	☺			☺	☺
SX-2E200N02-SF5	2	0,2	0,06–0,15	±0,05	±0,1	☺	☺	☺	☺	☺			☺	☺
SX-3E300N02-SF5	3	0,2	0,08–0,20	±0,05	±0,1	☺	☺	☺	☺	☺			☺	☺
SX-4E400N02-SF5	4	0,2	0,10–0,22	±0,05	±0,1	☺	☺	☺	☺	☺			☺	☺
SX-5E500N04-SF5	5	0,4	0,10–0,25	±0,05	±0,1	☺	☺	☺	☺	☺			☺	☺

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.05 mm

HC = Coated carbide
HW = Uncoated carbide

Grooving and parting off MX cutting inserts Tiger-tec® Silver



Cutting inserts

Designation	s mm	r mm	κ	T _{max} mm	D ₂ mm	f mm	S _{Tol} mm	I _{Tol} mm	P				M		K	S	
									HC				HC		HC	HC	
									WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S
MX22-2E100N01-GD8	1	0,1		3,5	130	0,03-0,06	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E120N01-GD8	1,2	0,1		2		0,03-0,07	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E140N01-GD8	1,4	0,1		2		0,03-0,08	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E150N01-GD8	1,5	0,1		5	130	0,03-0,09	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E157N02-GD8	1,57	0,2		3		0,03-0,10	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E170N02-GD8	1,7	0,2		3		0,03-0,10	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E185N02-GD8	1,85	0,2		3		0,04-0,10	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E196N02-GD8	1,96	0,2		3		0,04-0,10	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E200N02-GD8	2	0,2		6	100	0,04-0,10	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E224N02-GD8	2,24	0,2		6	100	0,04-0,12	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E239N02-GD8	2,39	0,2		6	100	0,04-0,14	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E275N02-GD8	2,75	0,2		6	100	0,04-0,14	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E300N02-GD8	3	0,2		6	100	0,04-0,14	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E318N02-GD8	3,18	0,2		6	100	0,04-0,14	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E325N02-GD8	3,25	0,2		6	100	0,04-0,15	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E080R/L5-CF5	0,8	0,05	5°	1,6	130	0,02-0,04	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E080N01-CF5	0,8	0,1		1,6	130	0,02-0,05	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E100R/L10-CF5	1	0,05	10°	3,5	130	0,02-0,04	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E100N01-CF5	1	0,1		3,5	130	0,03-0,07	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E104N01-CF5	1,04	0,1		2		0,03-0,07	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E120N01-CF5	1,2	0,1		2		0,03-0,08	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E140N01-CF5	1,4	0,1		2		0,03-0,09	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E147N01-CF5	1,47	0,1		2,5		0,03-0,09	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E150R/L10-CF5	1,5	0,05	10°	5	130	0,03-0,06	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E150N01-CF5	1,5	0,1		5	130	0,03-0,10	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E157N02-CF5	1,57	0,2		3		0,04-0,12	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E170N02-CF5	1,7	0,2		3		0,04-0,12	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E185N02-CF5	1,85	0,2		3		0,04-0,12	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E196N02-CF5	1,96	0,2		3		0,04-0,12	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E200R/L6-CF5	2	0,1	6°	6	100	0,04-0,12	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E200N02-CF5	2	0,2		6	100	0,04-0,14	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E224N02-CF5	2,24	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E239N02-CF5	2,39	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E250N02-CF5	2,5	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E275N02-CF5	2,75	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E300N02-CF5	3	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E318N02-CF5	3,18	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E325N02-CF5	3,25	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

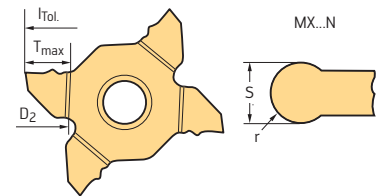
I_{Tol} = Repeat accuracy when changing indexable insert

Radius tolerance r_{Tol} = ± 0.05 mm

For information on T_{max} with diameters larger than D₂, see "Technical information – Grooving"


HC = Coated carbide

Grooving and parting off MX cutting inserts Tiger-tec® Silver



A2

Cutting inserts

Designation	s mm	r mm	k	T _{max} mm	D ₂ mm	f mm	S _{Tol} mm	l _{Tol} mm	P				M		K	S		
									HC				HC		HC	HC		
									WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S	WSM33S
 MX22-2E157N08-RF5	1,57	0,8		3	130	0,04–0,12	±0,02	±0,03										
MX22-2E200N10-RF5	2	1		6	100	0,04–0,14	±0,02	±0,03										
MX22-2E239N12-RF5	2,39	1,2		6	100	0,04–0,18	±0,02	±0,03										
MX22-2E300N15-RF5	3	1,5		6	100	0,04–0,20	±0,02	±0,03										
MX22-2E318N16-RF5	3,18	1,6		6	100	0,04–0,20	±0,02	±0,03										

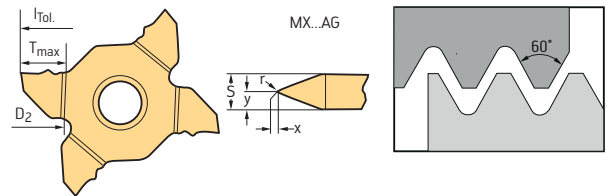
 l_{Tol} = Repeat accuracy when changing indexable insert

 Radius tolerance r_{Tol} = ± 0.05 mm


 For information on T_{max} with diameters larger than D₂, see "Technical information – Grooving"

HC = Coated carbide

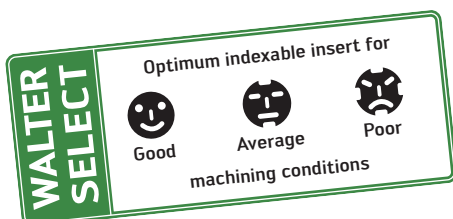
External thread – Partial profile 60° MX cutting inserts Tiger-tec® Silver



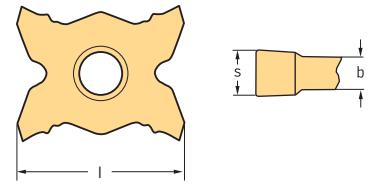
Thread turning inserts

Designation	Pitch P mm	Pitch (TPI) Inch	r mm	X mm	Y mm	P			M		K	S		
						HC			HC		HC	HC		
						WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S
 MX22-2E-EN-A60	0,50–1,50	48–16	0,05	0,05	1,68									
MX22-4E-EN-AG60	0,50–3,00	48–8	0,08	0,08	2,83									

HC = Coated carbide



Semi-finished blanks for special profiles MX cutting inserts



Blanks for special profiles

Designation	s mm	b mm	l mm	P				M				K	S					
				HC		HF		HC		HF		HC	HC		HF			
				WKP23S	WSM33S	WSM43S	WMG30	WSM33S	WSM43S	WSM43S	WMG30	WKP23S	WSM33S	WSM43S	WMG30			
MX22-2E335N	3,35	3,35	23,2				☉											
MX22-4E565N	5,65	5,65	23,2				☉											

Grade WMG30 has the ISO application ranges P20, M20 and S20

HC = Coated carbide
HF = Uncoated fine-grained carbide

A2

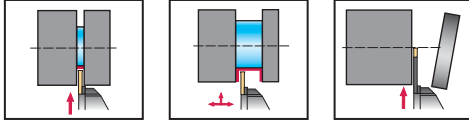
Shank tool – Radial grooving

G1011 inch

Walter Cut



– Screw clamping



A2

Tool	Designation	s Inch	T _{max} Inch	D ₂ Inch	h = h ₁ Inch	b Inch	f ₁ Inch	l ₁ Inch	l ₄ Inch	s ₁ Inch	Type
	★ G1011.16R/L-4T32GX24	0,157	1,260		1,000	1,000	0,933	6,496	2,165	0,134	GX24-3E4 .. GX24-3F4 ..

For information on T_{max} with diameters larger than D₂, see "Technical information – Grooving"
 $f = f_1 + s/2$
 Ordering example, right-hand tool: G1011.16R-4T32GX24/ordering example, left-hand tool: G1011.16L-4T32GX24
 Bodies and assembly parts are included in the scope of delivery.

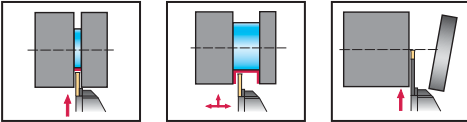
Assembly parts		h = h ₁ [Inch]	1,000
	Clamping screw for grooving insert		FS2118 (Torx 20IP)
	Tightening torque		5,0 Nm

Shank tool – Radial grooving

G1011...-P

Walter Cut

- Screw clamping
- Precision cooling



Tool

Designation	s mm	T _{max} mm	D ₂ mm	h = h ₁ mm	b mm	f ₁ mm	l ₁ mm	l ₄ mm	s ₁ mm	Type
★ G1011.1212R/L-2T12GX16-P	2	12		12	12	11,2	120	31,5	1,6	GX16-1E2 ..
G1011.1616R/L-2T15GX16-P		15		16	16	15,2	120	35,5	1,6	GX24-1E2 ..
G1011.1616R/L-2T21GX24-P		21	80	16	16	15,3	120	40	1,6	GX24-1E2 ..
G1011.1616R/L-3T15GX16-P	3	15		16	16	14,9	120	35,5	2,2	GX16-2E3 ..
G1011.1616R/L-3T21GX24-P		21	80	16	16	14,8	120	40	2,4	GX24-2E .. GX24-2F3 ..
★ G1011.1616R/L-4T12GX24-P		4	12		16	16	14,3	120	35	3,4
G1011.2020R/L-2T15GX16-P	2	15		20	20	19,2	120	35,5	1,6	GX16-1E2 ..
G1011.2020R/L-2T21GX24-P		21	80	20	20	19,2	125	40	1,6	GX24-1E2 ..
G1011.2020R/L-3T15GX16-P		15		20	20	18,9	120	35,5	2,2	GX16-2E3 ..
G1011.2020R/L-3T21GX24-P	3	21	80	20	20	18,8	125	40	2,4	GX24-2E .. GX24-2F3 ..
G1011.2525R/L-3T21GX24-P		21	80	25	25	23,8	130	40	2,4	GX24-2F3 ..
G1011.2020R/L-3T33GX34-P		33	140	20	20	18,8	140	53	2,4	GX34-2E3 ..
G1011.2525R/L-3T33GX34-P		33	140	25	25	23,8	145	53	2,4	GX34-2E3 ..
G1011.2020R/L-4T12GX24-P	4	12		20	20	18,3	120	35	3,4	GX24-3E4 .. GX24-3F4 ..
G1011.2020R/L-4T21GX24-P		21		20	20	18,3	125	40	3,4	
G1011.2525R/L-4T12GX24-P		12		25	25	23,3	125	35	3,4	
G1011.2525R/L-4T21GX24-P		21		25	25	23,3	130	40	3,4	
G1011.2525R/L-4T32GX24-P		32		25	25	23,3	145	55	3,4	
G1011.2020R/L-4T33GX34-P		33	140	20	20	18,4	140	53	3,3	
G1011.2525R/L-4T33GX34-P		33	140	25	25	23,4	145	53	3,3	GX34-3E4 ..
G1011.2020R/L-5T12GX24-P	5	12		20	20	17,9	120	35	4,2	GX24-3E5 .. GX24-3F5 ..
G1011.2020R/L-5T21GX24-P		21		20	20	17,9	125	40	4,2	
G1011.2525R/L-5T12GX24-P		12		25	25	22,9	125	35	4,2	
G1011.2525R/L-5T21GX24-P		21		25	25	22,9	130	40	4,2	
G1011.2525R/L-5T32GX24-P		32	120	25	25	22,9	145	55	4,2	
G1011.2525R/L-6T12GX24-P	6	12		25	25	22,4	125	35	5,2	GX24-4E6 ..

$f = f_1 + s/2$

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: G1011.1212R-2T12GX16-P/ordering example, left-hand tool: G1011.1212L-2T12GX16-P

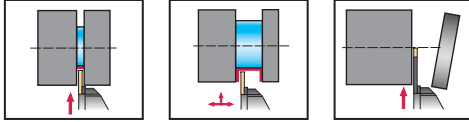
Bodies and assembly parts are included in the scope of delivery.

Shank tool – Radial grooving

 G1011...-P mm

Walter Cut

- Screw clamping
- Precision cooling



Tool	Designation	s mm	T _{max} mm	D ₂ mm	h = h ₁ mm	b mm	f ₁ mm	l ₁ mm	l ₄ mm	s ₁ mm	Type
	G1011.2525R/L-6T21GX24-P	6	21		25	25	22,4	130	40	5,2	GX24-4E6 ..
	G1011.2525R/L-6T32GX24-P		32		25	25	22,4	145	55	5,2	
	G1011.2525R/L-8T28GX30-P	8	28		25	25	22	145	55	6,1	GX30-5E8 ..
	G1011.3225R/L-8T28GX30-P		28		32	25	22	145	55	6,1	

$f = f_1 + s/2$
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: G1011.1212R-2T12GX16-P/ordering example, left-hand tool: G1011.1212L-2T12GX16-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	h = h ₁ [mm]	12	16	20	20-25	25	32
	T _{max} [mm]	12	12-21	12-21	33	12-32	28
Clamping screw for grooving insert Tightening torque	FS2118 (Torx 20IP) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm	M06X025 ISO4762 12.9 (SW 5) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm
G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)
M6 threaded plug			FS2288 (SW 3)	FS2288 (SW 3)	FS2288 (SW 3)	FS2288 (SW 3)	FS2288 (SW 3)
Torx key	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)		FS1464 (Torx 20IP)	FS1464 (Torx 20IP)
Allen key					ISO2936-5 (SW 5)		

Shank tool – Radial grooving

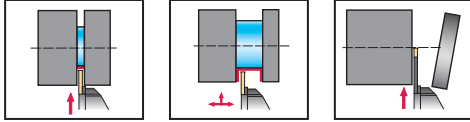
G1011...-P inch

Walter Cut

- Screw clamping
- Precision cooling



A2



Tool	Designation	s Inch	T _{max} Inch	D ₂ Inch	h = h ₁ Inch	b Inch	f ₁ Inch	l ₁ Inch	l ₄ Inch	s ₁ Inch	Type
	G1011.12R/L-2T15GX16-P	0,079	0,591		0,750	0,750	0,719	5,906	1,398	0,063	GX16-1E2 ..
	G1011.16R/L-2T15GX16-P		0,591		1,000	1,000	0,969	5,906	1,398	0,063	
	G1011.12R/L-3T15GX16-P	0,118	0,591		0,750	0,750	0,707	5,906	1,398	0,087	GX16-2E3 ..
	G1011.12R/L-3T21GX24-P		0,827	3,150	0,750	0,750	0,701	5,906	1,575	0,094	
	G1011.16R/L-3T21GX24-P	0,157	0,827	3,150	1,000	1,000	0,953	5,906	1,575	0,094	GX24-2E .. GX24-2F3 ..
	G1011.12R/L-3T33GX34-P		1,299	5,512	0,750	0,750	0,703	5,906	2,087	0,094	
	G1011.16R/L-3T33GX34-P	0,197	1,299	5,512	1,000	1,000	0,953	5,906	2,087	0,094	GX34-2E3 ..
	G1011.12R/L-4T12GX24-P		0,472		0,750	0,750	0,685	5,906	1,378	0,134	
	G1011.12R/L-4T21GX24-P	0,236	0,827		0,750	0,750	0,685	5,906	1,575	0,134	GX24-3E4 .. GX24-3F4 ..
	G1011.16R/L-4T12GX24-P		0,472	1,000	1,000	0,933	5,709	1,378	0,134		
	G1011.16R/L-4T21GX24-P	0,197	0,827		1,000	1,000	0,933	5,906	1,575	0,134	GX24-3E4 .. GX24-3F5 ..
	G1011.16R/L-4T32GX24-P		1,260		1,000	1,000	0,933	5,906	2,165	0,134	
	G1011.12R/L-4T33GX34-P	0,197	1,299	5,512	0,750	0,750	0,685	5,906	2,087	0,130	GX34-3E4 ..
	G1011.16R/L-4T33GX34-P		1,299	5,512	1,000	1,000	0,937	5,906	2,087	0,130	
	G1011.12R/L-5T21GX24-P	0,197	0,827		0,750	0,750	0,669	5,906	1,575	0,165	GX24-3E5 .. GX24-3F5 ..
	G1011.16R/L-5T12GX24-P		0,472		1,000	1,000	0,917	5,709	1,378	0,165	
G1011.16R/L-5T21GX24-P	0,236	0,827		1,000	1,000	0,917	5,906	1,575	0,165	GX24-4E6 ..	
G1011.16R/L-5T32GX24-P		1,260		1,000	1,000	0,917	5,906	2,165	0,165		
G1011.16R/L-6T12GX24-P	0,236	0,472		1,000	1,000	0,898	5,709	1,378	0,205	GX24-4E6 ..	
G1011.16R/L-6T21GX24-P		0,827		1,000	1,000	0,898	5,906	1,575	0,205		
G1011.16R/L-6T32GX24-P	0,236	1,260		1,000	1,000	0,898	5,906	2,165	0,205		

$$f = f_1 + s/2$$

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: G1011.12R-2T15GX16-P/ordering example, left-hand tool: G1011.12L-2T15GX16-P

Bodies and assembly parts are included in the scope of delivery.

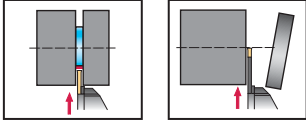
Assembly parts	h = h ₁ [Inch] T _{max} [Inch]	0,750 0,472–0,827	0,750–1,000 1,299	1,000 0,472–1,260
	Clamping screw for grooving insert Tightening torque	FS2118 (Torx 20IP) 5,0 Nm	M06X025 ISO4762 12.9 (SW 5) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)
	M6 threaded plug		FS2288 (SW 3)	
	Torx key	FS1464 (Torx 20IP)		FS1464 (Torx 20IP)
	Allen key		ISO2936-5 (SW 5)	

Reinforced parting blade

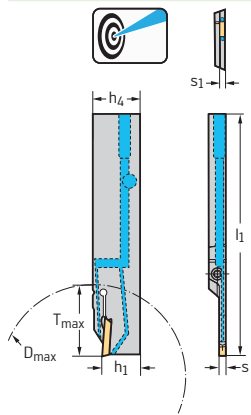
G1041...-P

Walter Cut

- Screw clamping
- Precision cooling



Tool



Designation	s mm	T _{max} mm	D _{max} mm	h ₄ mm	l ₁ mm	h ₁ mm	s ₁ mm	Type
G1041.26R/L-2T16GX16-P	2	16	32	26	110	21	1,5	GX16-1E2 ..
G1041.26R/L-3T23GX24-P	3	23	46	26	110	21	2,2	GX24-2E .. GX24-2F3 ..
G1041.32R/L-3T23GX24-P		23	46	32	110	24,6	2,2	
G1041.32R/L-3T32GX24-P		32	65	32	110	24,6	2,2	GX34-2E3 ..
G1041.32R/L-3T33GX34-P	33	65	32	110	24,6	2,4		
G1041.32R/L-4T32GX24-P	4	32	65	32	110	24,6	3,1	GX24-3E4 .. GX24-3F4 ..
G1041.32R/L-4T33GX34-P		33	65	32	110	24,6	3,3	

Ordering example, right-hand tool: G1041.26R-2T16GX16-P/ordering example, left-hand tool: G1041.26L-2T16GX16-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts



h ₄ [mm]	26-32
Clamping screw for grooving insert Tightening torque	FS2164 (Torx 15IP) 3,5 Nm

Accessories



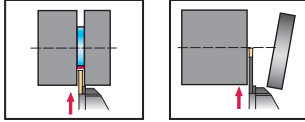
h ₄ [mm]	26-32
Screwdriver for grooving insert	FS1485 (Torx 15IP)

Reinforced parting blade – Contra

G1041...C-P mm

Walter Cut

- Screw clamping
- Precision cooling



A2

Tool		s	T _{max}	D _{max}	h ₄	l ₁	h ₁	s ₁	Type
Designation		mm	mm	mm	mm	mm	mm	mm	
	G1041.26R/L-2T16GX16C-P	2	16	32	26	110	21	1,5	GX16-1E2 ..
	G1041.32R/L-2T23GX24C-P		23	46	32	110	24,6	1,5	GX24-1E2 ..
	★ G1041.26R/L-3T23GX24C-P	3	23	46	26	110	21	2,2	GX24-2E .. GX24-2F3 ..
	G1041.32R/L-3T23GX24C-P		23	46	32	110	24,6	2,2	
	G1041.32R/L-3T32GX24C-P		32	65	32	110	24,6	2,2	
	G1041.32R/L-3T33GX34C-P		33	65	32	110	24,6	2,4	GX34-2E3 ..
	G1041.32R/L-4T32GX24C-P	4	32	65	32	110	24,6	3,1	GX24-3E4 .. GX24-3F4 ..
	G1041.32R/L-4T33GX34C-P		33	65	32	110	24,6	3,3	GX34-3E4 ..

Ordering example, right-hand tool: G1041.26R-2T16GX16C-P/ordering example, left-hand tool: G1041.26L-2T16GX16C-P
Bodies and assembly parts are included in the scope of delivery.

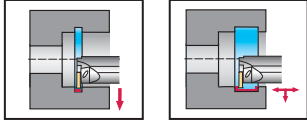
Assembly parts		h ₄ [mm]	26-32
	Clamping screw for grooving insert Tightening torque		FS2164 (Torx 15IP) 3,5 Nm
Accessories		h ₄ [mm]	26-32
	Screwdriver for grooving insert		FS1485 (Torx 15IP)

Boring bar – Internal grooving

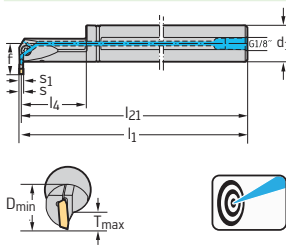
 G1221...-P mm

Walter Cut

- Screw clamping
- Precision cooling



Tool



Designation	s mm	T _{max} mm	D _{min} mm	d ₁ mm	f mm	l ₄ mm	l ₂₁ mm	s ₁ mm	Type
G1221-16QR/L-2T04-GX09-P	2-2,5	4	16	16	12,6	40	179,3	1,4	GX09-1E2 ..
G1221-20QR/L-2T06-GX09-P		6	20	20	16,6	47	179,3	1,4	
G1221-25RR/L-2T08-GX16-P		8	25	25	21,1	56	199,3	1,5	
G1221-20QR/L-3T06-GX09-P	2,5-3	6	20	20	16,6	47	179,0	2,1	GX09-2E3 ..
G1221-25RR/L-3T08-GX16-P	3	8	25	25	21,1	56	199,0	2,1	GX16-2E3 ..
G1221-32SR/L-3T10-GX16-P		10	32	32	26,6	69	249,0	2,1	
G1221-32SR/L-4T10-GX16-P		4-5	10	32	32	26,6	69	248,5	

$$l_1 = l_{21} + s/2$$

Ordering example, right-hand tool: G1221-16QR-2T04-GX09-P/ordering example, left-hand tool: G1221-16QL-2T04-GX09-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	D _{min} [mm]	16	20	25	32
	Clamping screw for grooving insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS2081 (Torx 15IP) 4,0 Nm	FS1495 (Torx 20IP) 5,0 Nm	FS2089 (Torx 25IP) 5,0 Nm
	Threaded plug	M02X002 ISO 4026	M03X003 ISO 4026 (SW 1,6)	M03X003 ISO 4026 (SW 1,6)	M03X003 ISO 4026 (SW 1,6)
	O-ring	O-RING 11X2	O-RING 15X2	O-RING 20X2	O-RING 27X2
	Screwdriver	FS1485 (Torx 15IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Accessories

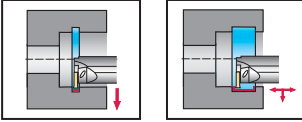
	D _{min} [mm]	16-20	25	32
	Torque screwdriver, digital Tightening torque	FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2016 (Torx 25IP)

Boring bar – Internal grooving

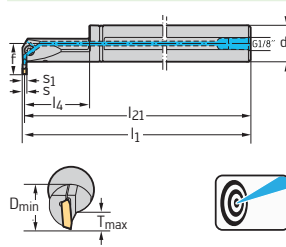
G1221...-P inch

Walter Cut

- Screw clamping
- Precision cooling



Tool



Designation	s Inch	T _{max} Inch	D _{min} Inch	d ₁ Inch	f Inch	l ₄ Inch	l ₂₁ Inch	s ₁ Inch	Type
G1221.10QR/L-2T04-GX09-P	0,079– 0,098	0,157	0,625	0,625	0,492	1,575	7,059	0,055	GX09-1E2 ..
G1221.12QR/L-2T06-GX09-P		0,236	0,750	0,750	0,634	1,850	7,059	0,055	
G1221.16RR/L-2T08-GX16-P	0,118	0,315	1,000	1,000	0,839	2,205	7,844	0,059	GX16-1E2 ..
G1221.12QR/L-3T06-GX09-P		0,236	0,750	0,750	0,634	1,850	7,045	0,083	GX09-2E3 ..
G1221.16RR/L-3T08-GX16-P		0,315	1,000	1,000	0,839	2,205	7,833	0,083	GX16-2E3 ..
G1221.20SR/L-3T10-GX16-P		0,394	1,250	1,250	1,043	2,717	9,801	0,083	GX16-3E ..
G1221.20SR/L-4T10-GX16-P	0,157– 0,197	0,394	1,250	1,250	1,043	2,717	9,781	0,122	GX16-3E ..

$$l_1 = l_{21} + s/2$$

Ordering example, right-hand tool: G1221.10QR-2T04-GX09-P/ordering example, left-hand tool: G1221.10QL-2T04-GX09-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _{min} [Inch]	0,625	0,750	1,000	1,250
Clamping screw for grooving insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS2081 (Torx 15IP) 4,0 Nm	FS1495 (Torx 20IP) 5,0 Nm	FS2089 (Torx 25IP) 5,0 Nm
Threaded plug	M02X002 ISO 4026	M03X003 ISO 4026 (SW 1,6)	M03X003 ISO 4026 (SW 1,6)	M03X003 ISO 4026 (SW 1,6)
O-ring	O-RING 11X2	O-RING 15X2	O-RING 20X2	O-RING 27X2
Screwdriver	FS1485 (Torx 15IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Accessories

D _{min} [Inch]	0,625-0,750	1,000	1,250
Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2016 (Torx 25IP)

Shank tool – Radial grooving & Parting

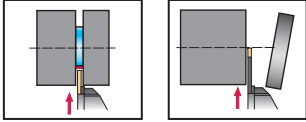
 G2012

Walter Cut



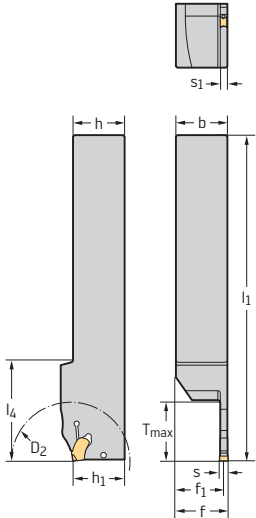
A2

– Self-clamping system



Tool

Designation	s mm	T _{max} mm	D ₂ mm	h = h ₁ mm	b mm	f ₁ mm	l ₁ mm	l ₄ mm	s ₁ mm	Type
G2012.1212R/L-1.5T15SX	1,5	15	38	12	12	11,4	120	25	1,2	SX-1E1 ..
G2012.1616R/L-1.5T15SX		15	38	16	16	15,4	120	25	1,2	
G2012.2020R/L-1.5T15SX		15	38	20	20	19,4	120	25	1,2	
G2012.2525R/L-2T26SX	2	26	52	25	25	24,2	146	36	1,6	SX-2E2 ..
G2012.2525R/L-3T33SX	3	33	65	25	25	23,8	150	43	2,5	SX-3E3 ..



f = f₁ + s/2
 Ordering example, right-hand tool: G2012.1212R-1.5T15SX/ordering example, left-hand tool: G2012.1212L-1.5T15SX

Accessories

	h = h ₁ [mm]	12-20	25
	Mounting wrench for grooving insert	FS2249	FS1494

Shank tool – Radial grooving & Parting

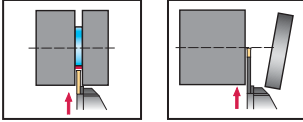
G2012 inch

Walter Cut



A2

– Self-clamping system



Tool		s Inch	T _{max} Inch	D ₂ Inch	h = h ₁ Inch	b Inch	f ₁ Inch	l ₁ Inch	l ₄ Inch	s ₁ Inch	Type
	Designation										
	G2012.08R/L-1.5T15SX	0,059	0,591	1,496	0,500	0,500	0,476	4,724	0,984	0,047	SX-1E1 ..
	G2012.10R/L-1.5T15SX		0,591	1,496	0,625	0,625	0,602	4,724	0,984	0,047	
	G2012.12R/L-1.5T15SX		0,591	1,496	0,750	0,750	0,726	4,724	0,984	0,047	
	G2012.16R/L-2T26SX	0,079	1,024	2,047	1,000	1,000	0,969	5,748	1,417	0,061	SX-2E2 ..
G2012.16R/L-3T33SX	0,118	1,299	2,559	1,000	1,000	0,952	5,906	1,693	0,096	SX-3E3 ..	

f = f₁ + s/2
 Ordering example, right-hand tool: G2012.08R-1.5T15SX/ordering example, left-hand tool: G2012.08L-1.5T15SX

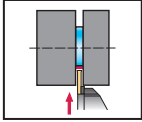
Accessories		h = h ₁ [Inch]	0,500-0,750	1,000
	Mounting wrench for grooving insert		FS2249	FS1494

Reinforced parting blade

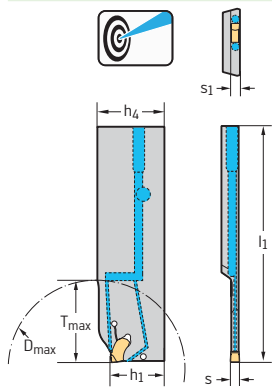
G2042...R/L...-P

Walter Cut

- Self-clamping system
- Precision cooling



Tool



Designation	s mm	T _{max} mm	D _{max} mm	h ₄ mm	l ₁ mm	h ₁ mm	s ₁ mm	Type
G2042.32R/L-2T26SX-P	2	26	52	32	110	24,7	1,6	SX-2E2 ..
G2042.26R/L-3T33SX-P	3	33	65	26	110	21	2,4	SX-3E3 ..
G2042.32R/L-3T33SX-P		33	65	32	110	24,7	2,4	SX-3E3 ..
G2042.32R/L-4T33SX-P	4	33	65	32	110	24,7	3,4	SX-4E4 ..

Ordering example, right-hand tool: G2042.32R-2T26SX-P/ordering example, left-hand tool: G2042.32L-2T26SX-P

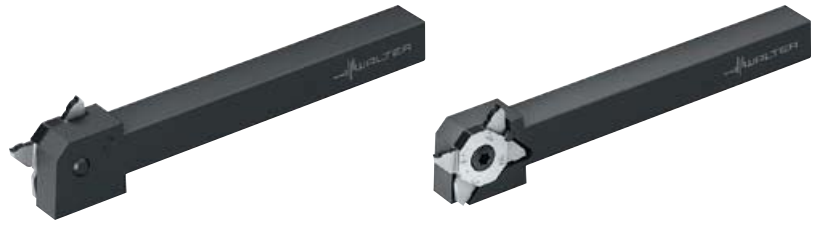
Accessories

	h ₄ [mm]	
	Mounting wrench for grooving insert	FS1494

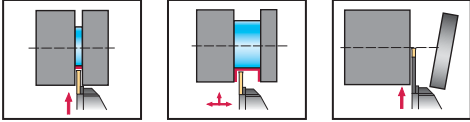
Shank tool – Radial grooving

G3011

Walter Cut



– Screw clamping



Tool	Designation	s mm	T _{max} mm	h = h ₁ mm	b mm	f ₁ mm	l ₁ mm	h ₄ mm	l ₄ mm	Type
	★ G3011-1010R/L-MX22-2	0,8– 3,25	6	10	10	8,3	120	7	28	MX22-2E ..
	★ G3011-1212R/L-MX22-2			12	12					

f = f₁ + s/2
 For information on the maximum cutting depth T_{max}, see "Cutting inserts"
 Ordering example, right-hand tool: G3011-1010R-MX22-2/ordering example, left-hand tool: G3011-1010L-MX22-2
 Bodies and assembly parts are included in the scope of delivery.

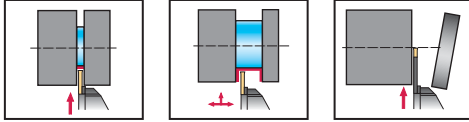
Assembly parts		h = h ₁ [mm]	10	12
	Clamping screw for grooving insert		FS2281 (Torx 20IP)	FS1495 (Torx 20IP)
	Tightening torque		5,0 Nm	5,0 Nm
	Torx key		FS1464 (Torx 20IP)	FS1464 (Torx 20IP)

Shank tool – Radial grooving

G3011...-P

Walter Cut

- Screw clamping
- Precision cooling



Tool	Designation	s mm	T _{max} mm	h = h ₁ mm	b mm	f ₁ mm	l ₁ mm	l ₄ mm	Type
	G3011-1212R/L-MX22-2-P	0,8–3,25	6	12	12	10,3	120	26	MX22-2E ..
	G3011-1616R/L-MX22-2-P		6	16	16	14,3	120	26	
	★ G3011-1616R/L-MX22-4-P	4–5,65	6	16	16	13,2	120	26	MX22-4E- ..
	G3011-2020R/L-MX22-2-P	0,8–3,25	6	20	20	18,3	125	26	MX22-2E ..
	G3011-2525R/L-MX22-2-P		6	25	25	23,3	125	26	
	★ G3011-2020R/L-MX22-4-P	4–5,65	6	20	20	17,2	125	26	MX22-4E- ..
	★ G3011-2525R/L-MX22-4-P		6	25	25	22,2	125	26	

$$f = f_1 + s/2$$

For information on the maximum cutting depth T_{max}, see "Cutting inserts"



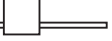
For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: G3011-1212R-MX22-2-P/ordering example, left-hand tool: G3011-1212L-MX22-2-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	h = h ₁ [mm]	12-16	20-25
	Clamping screw for grooving insert Tightening torque	FS1495 (Torx 20IP) 5,0 Nm	FS1495 (Torx 20IP) 5,0 Nm
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
	M6 threaded plug		FS2288 (SW 3)
	Torx key	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)

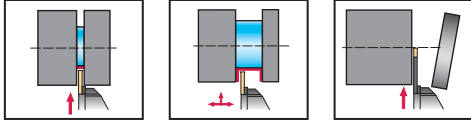
A2

Shank tool – Radial grooving

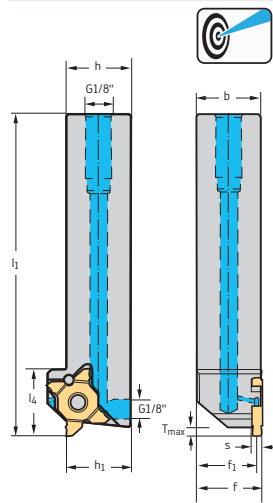
G3011...-P **inch**

Walter Cut

- Screw clamping
- Precision cooling



Tool



Designation	s Inch	T _{max} Inch	h = h ₁ Inch	b Inch	f Inch	l ₄ Inch	l ₂₁ Inch	Type
G3011.12R/L-MX22-2-P	0,031– 0,128	0,236	0,750	0,750	0,684	1,024	5,906	MX22-2E ..
G3011.16R/L-MX22-2-P		0,236	1,000	1,000	0,934	1,024	5,906	
★ G3011.12R/L-MX22-4-P	0,157– 0,222	0,236	0,750	0,750	0,639	1,024	5,906	MX22-4E- ..
★ G3011.16R/L-MX22-4-P		0,236	1,000	1,000	0,889	1,024	5,794	

$$f = f_1 + s/2$$

For information on the maximum cutting depth T_{max} , see "Cutting inserts"




For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: G3011.12R-MX22-2-P/ordering example, left-hand tool: G3011.12L-MX22-2-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

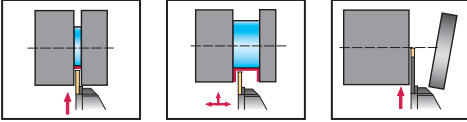
h = h ₁ [Inch]	0,750-1,000
 Clamping screw for grooving insert Tightening torque	FS1495 (Torx 20IP) 5,0 Nm
 G 1/8" threaded plug	FS2258 (SW 5)
 Torx key	FS1464 (Torx 20IP)

Shank tool – Radial grooving

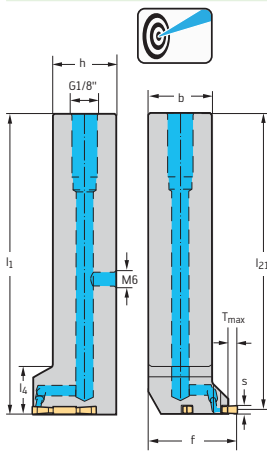
G3021...-P

Walter Cut

- Screw clamping
- Precision cooling



Tool



Designation	s mm	T _{max} mm	h = h ₁ mm	b mm	f mm	l ₄ mm	l ₂₁ mm	Type
G3021-2020R/L-MX22-2-P	0,8-3,25	6	20	20	30	19	123,3	MX22-2E ..
G3021-2525R/L-MX22-2-P		6	25	25	35	19	123,3	
★ G3021-2525R/L-MX22-4-P	4-5,65	6	25	25	35	21	123,3	MX22-4E- ..

$l_1 = l_{21} + s/2$
 For information on the maximum cutting depth T_{max} , see "Cutting inserts"
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: G3021-2020R-MX22-2-P/ordering example, left-hand tool: G3021-2020L-MX22-2-P
 Bodies and assembly parts are included in the scope of delivery.

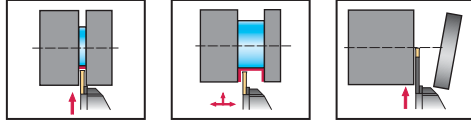
Assembly parts	h = h ₁ [mm] s [mm]	20-25 0,8-3,25	25 4-5,65
	Clamping screw for grooving insert Tightening torque	FS1495 (Torx 20IP) 5,0 Nm	FS1495 (Torx 20IP) 5,0 Nm
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)	
	Torx key	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)

Shank tool – Radial grooving

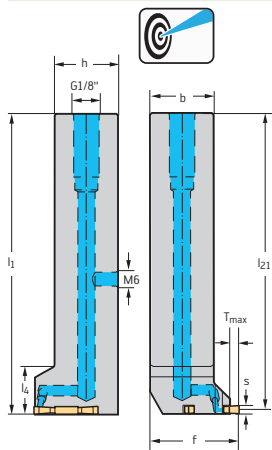
G3021...-P inch

Walter Cut

- Screw clamping
- Precision cooling



Tool



Designation	s Inch	T _{max} Inch	h = h ₁ Inch	b Inch	f Inch	l ₄ Inch	l ₂₁ Inch	Type
G3021.16R/L-MX22-2-P	0,031– 0,128	0,236	1,000	1,000	1,394	0,748	5,842	MX22-2E ..
★ G3021.16R/L-MX22-4-P	0,157– 0,222	0,236	1,000	1,000	1,394	0,827	5,842	MX22-4E- ..

$l_1 = l_{21} + s/2$
 For information on the maximum cutting depth T_{max} , see "Cutting inserts"
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: G3021.16R-MX22-2-P/ordering example, left-hand tool: G3021.16L-MX22-2-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	h = h ₁ [Inch]	1,000
	Clamping screw for grooving insert Tightening torque	FS1495 (Torx 20IP) 5,0 Nm
	G 1/8" threaded plug	FS2258 (SW 5)
	Torx key	FS1464 (Torx 20IP)

Walter TOOLSHOP – Quick. Easy. Order.

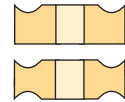


The next generation Walter TOOLSHOP is here: More convenience functions for registered users make tool selection and ordering even easier.

- Fully integrated Walter TOOLSHOP
- 45,000 products can be ordered 24 hours a day
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- A wide range of ordering options: via the order number, individual Excel files or directly from Walter GPS
- Use saved templates to order recurring requirements
- Product availability and stock levels can be seen at any time

Cutting data for turning inserts – Negative basic shape

Carbide grades



Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R_m N/mm ²	Machining group ¹		Cutting material grades				
							Starting values for cutting speed v_c [m/min]				
							HC				
							WSM01				
							f [mm/rev]				
							0,10	0,20	0,50		
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	●●	●	240	230	
		C > 0.25... ≤ 0.55%	Annealed	190	640	P2	●●	●	190	160	
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	P3	●●	●	160	130	
		C > 0.55%	Annealed	190	640	P4	●●	●	150	130	
		C > 0.55%	Heat-treated	300	1010	P5	●●	●	140	100	
	Free-machining steel (short-chipping)	Annealed	220	750	P6	●●	●	210	190		
	Low-alloy steel	Annealed	175	590	P7	●●	●	150	130		
		Heat-treated	285	960	P8	●●	●	130	80		
		Heat-treated	380	1280	P9	●●	●	100	70		
		Heat-treated	430	1480	P10	●●	●	80	60		
High-alloy steel and high-alloy tool steel	Annealed	200	680	P11	●●	●	140	120			
	Hardened and tempered	300	1010	P12	●●	●	120	90			
	Hardened and tempered	380	1280	P13	●●	●	70	50			
Stainless steel	Ferritic/martensitic, annealed	200	680	P14	●●	●	200	180			
	Martensitic, heat-treated	330	1110	P15	●●	●	150	120			
M	Stainless steel	Austenitic, quench hardened	200	680	M1	●●	●	250	190	120	
		Austenitic, precipitation hardened (PH)	300	1010	M2	●●	●	150	130		
		Austenitic/ferritic, duplex	230	780	M3	●●	●	160	140	100	
K	Malleable cast iron	Ferritic	200	400	K1	●●	●				
		Pearlitic	260	700	K2	●●	●				
	Grey cast iron	Low tensile strength	180	200	K3	●●	●				
		High tensile strength/austenitic	245	350	K4	●●	●				
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	●●	●				
Pearlitic		265	700	K6	●●	●					
GGV (CGI)		230	400	K7	●●	●					
N	Wrought aluminium alloys	Not hardenable	30	–	N1			3000	2400	1800	
		Hardenable, hardened	100	340	N2			900	720	360	
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3			960	540	360	
		≤ 12% Si, hardenable, hardened	90	310	N4			600	360	240	
		> 12% Si, not hardenable	130	450	N5						
	Magnesium-based alloys ³		70	250	N6						
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100	340	N7			720	480	320	
Brass, bronze, red brass		90	310	N8			480	360	300		
Cu alloys, short-chipping		110	380	N9			340	240	160		
High-tensile, Ampco		300	1010	N10							
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	●●	●	100	70	
			Hardened	280	940	S2	●●	●	80	60	
		Ni- or Co-based	Annealed	250	840	S3	●●	●	80	60	
			Hardened	350	1180	S4	●●	●	70	50	
	Cast		320	1080	S5	●●	●	60	40		
			200	680	S6	●●	●				
	Titanium alloys	Pure titanium	200	680	S6	●●	●				
		α and β alloys, hardened	375	1260	S7	●●	●	70	50		
β alloys	410	1400	S8	●●	●	50	40				
Tungsten alloys		300	1010	S9							
Molybdenum alloys		300	1010	S10							
H	Hardened steel	Hardened and tempered	50 HRC		H1	●	●●	50			
		Hardened and tempered	55 HRC		H2	●	●●	40			
		Hardened and tempered	60 HRC		H3	●	●●				
	Hardened cast iron	Hardened and tempered	55 HRC		H4	●	●●				
O	Thermoplastics	Without abrasive fillers			O1						
	Thermosets	Without abrasive fillers			O2						
	Plastic, glass-fibre-reinforced	GFRP			O3						
	Plastic, carbon-fibre-reinforced	CFRP			O4						
	Plastic, aramid-fibre-reinforced	AFRP			O5						
	Graphite (technical)		80 Shore			O6					

- Recommended application (the specified cutting data is regarded as starting values for the recommended application)
- Possible application

Note: If dry machining is possible, the tool life is reduced by 20–30% on average

¹ The classification of the machining groups can be found from page A 468 onwards in the Walter General Catalogue 2017.

³ Water-miscible coolants must not be used when machining magnesium alloys.

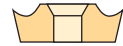
Cutting material grades																		
Starting values for cutting speed v_c [m/min]																		
HC									CN									
WSM10S			WSM20S			WSM30S			WPV10			WPV20			WCK10			
f [mm/rev]			f [mm/rev]			f [mm/rev]			f [mm/rev]			f [mm/rev]			f [mm/rev]			
0,10	0,30	0,50	0,10	0,30	0,50	0,10	0,30	0,50	0,10	0,40	0,60	0,10	0,40	0,60	0,10	0,40	0,60	
270	250		230	220		220	200		430	320	250	360	270	220				
210	190		180	160		160	150		340	240	200	280	200	160				
180	160		150	130		130	110		260	200	170	210	170	140				
180	160		140	130		130	120		280	200	160	240	170	130				
									220	160	160	180	130	120				
240	220		200	180		180	160		400	280	230	330	240	180				
170	150		140	120		120	100		310	230	200	260	200	160				
									190	150	130	160	120	100				
									140	100	80	120	80	70				
									70	50								
170	150		130	110		110	90		280	200	130	240	160	100				
									200	120	100	160	100	80				
									60	50								
200	180	150	190	170	140	170	150	120	230	180	160	190	160	120				
170	120	110	140	110	100	110	100	80	160	120	100	130	90	70				
260	210	130	240	170	110	200	140	90	250	180	120	200	150	90				
160	140		140	120		110	90		150	130		120	100					
170	150	110	150	130	90	130	110	70	160	130	100	120	110	80				
									260	170	130	230	180	130	350	300	250	
									220	140	100	200	150	90	250	200	200	
									470	280	200	410	210	160	1000	800	700	
									260	180	120	200	150	90	800	700	600	
									280	200	150	210	160	120	500	400	350	
									200	150	120	160	120	90	250	200	200	
									240	160	130				350	300	250	
100	65		90	60		80	50											
80	55		70	50		60	40											
80	55		70	50		60	30											
70	45		60	40		50	30											
60	35		50	30		40	20											
			70	45	40													
			40	30	25													

The specified cutting data are average standard values. For specific applications, adjustment is recommended.

HC = Coated carbide
CN = Silicon nitride Si3N4

Cutting data for turning inserts – Positive basic shape

Carbide grades



Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R_{m} N/mm ²	Machining group ¹		Cutting material grades				
							Starting values for cutting speed v_c [m/min]				
							HE				
							WEPI0				
							f [mm/rev]				
							0,10	0,20	0,30		
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	●●	●	300	250	200
		C > 0.25... ≤ 0.55%	Annealed	190	640	P2	●●	●	230	200	180
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	P3	●●	●	210	180	150
		C > 0.55%	Annealed	190	640	P4	●●	●	220	200	180
		C > 0.55%	Heat-treated	300	1010	P5	●●	●	180	150	
	Low-alloy steel	Free-machining steel (short-chipping)	Annealed	220	750	P6	●●	●	230	200	180
		Annealed		175	590	P7	●●	●	210	180	150
		Heat-treated		285	960	P8	●●	●	150	130	110
		Heat-treated		380	1280	P9	●●	●			
		Heat-treated		430	1480	P10	●●	●			
High-alloy steel and high-alloy tool steel	Annealed		200	680	P11	●●	●	160	140	130	
	Hardened and tempered		300	1010	P12	●●	●				
	Hardened and tempered		380	1280	P13	●●	●				
Stainless steel	Ferritic/martensitic, annealed		200	680	P14	●●	●				
	Martensitic, heat-treated		330	1110	P15	●●	●				
M	Stainless steel	Austenitic, quench hardened		200	680	M1	●●	●	210	190	160
		Austenitic, precipitation hardened (PH)		300	1010	M2	●●	●	150	130	110
		Austenitic/ferritic, duplex		230	780	M3	●●	●	160	140	110
K	Malleable cast iron	Ferritic		200	400	K1	●●	●	220	200	180
		Pearlitic		260	700	K2	●●	●	190	170	150
	Grey cast iron	Low tensile strength		180	200	K3	●●	●	420	390	360
		High tensile strength/austenitic		245	350	K4	●●	●	220	200	180
	Cast iron with spheroidal graphite	Ferritic		155	400	K5	●●	●	240	220	200
		Pearlitic		265	700	K6	●●	●	170	140	130
GGV (CGI)		230	400	K7	●●	●	220	180	170		
N	Wrought aluminium alloys	Not hardenable		30	–	N1	●●	●			
		Hardenable, hardened		100	340	N2	●●	●			
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	260	N3	●●	●			
		≤ 12% Si, hardenable, hardened		90	310	N4	●●	●			
		> 12% Si, not hardenable		130	450	N5					
	Magnesium-based alloys ³		70	250	N6						
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7	●●	●			
Brass, bronze, red brass			90	310	N8	●●	●				
Cu alloys, short-chipping			110	380	N9	●●	●				
High-tensile, Ampco			300	1010	N10						
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	●●	●			
			Hardened	280	940	S2	●●	●			
		Ni- or Co-based	Annealed	250	840	S3	●●	●			
			Hardened	350	1180	S4	●●	●			
	Titanium alloys	Cast	320	1080	S5	●●	●				
		Pure titanium		200	680	S6	●●	●			
		α and β alloys, hardened		375	1260	S7	●●	●			
	Tungsten alloys	β alloys		410	1400	S8	●●	●			
			300	1010	S9						
Molybdenum alloys		300	1010	S10							
H	Hardened steel	Hardened and tempered		50 HRC		H1	●	●●			
		Hardened and tempered		55 HRC		H2	●	●●			
		Hardened and tempered		60 HRC		H3	●	●●			
	Hardened cast iron	Hardened and tempered		55 HRC		H4	●	●●			
O	Thermoplastics	Without abrasive fillers				O1					
	Thermosets	Without abrasive fillers				O2					
	Plastic, glass-fibre-reinforced	GFRP				O3					
	Plastic, carbon-fibre-reinforced	CFRP				O4					
	Plastic, aramid-fibre-reinforced	AFRP				O5					
	Graphite (technical)			80 Shore		O6					

- Recommended application (the specified cutting data is regarded as starting values for the recommended application)
- Possible application

Note: If dry machining is possible, the tool life is reduced by 20–30% on average

¹ The classification of the machining groups can be found from page A 468 onwards in the Walter General Catalogue 2017.

³ Water-miscible coolants must not be used when machining magnesium alloys.

Cutting material grades						
Starting values for cutting speed v_c [m/min]						
HC						
WSM01			WNN10			
f [mm/rev]			f [mm/rev]			
0,10	0,20	0,40	0,10	0,20	0,40	
240	230		230	210		
190	160		170	150		
160	130		130	120		
150	130		140	120		
140	100					
210	190		180	160		
150	130		120	100		
130	80					
100	70					
80	60					
140	120		130	100		
120	90					
70	50					
200	180					
150	120					
250	190	120	200	180		
150	130		140	120		
160	140	100	150	130		
3000	2400	1800	3000	2400	1800	
900	720	360	900	720	360	
960	540	360	960	540	360	
600	360	240	600	360	240	
720	480	320	720	480	320	
480	360	300	480	360	300	
340	240	160	340	240	160	
100	70		80	60		
80	60		60	50		
80	60		60	50		
70	50		50	40		
60	40		40	30		
			220	200	160	
70	50		70	50		
50	40		40	30		
50						
40						
			400	400		
			300	300		
			600	600		

The specified cutting data are average standard values. For specific applications, adjustment is recommended.

HC = Coated carbide
HE = Coated cermet

Cutting tool material application chart

Carbide																	
Walter grade designation	Standard designation	Material groups							Application range						Coating method	Coating composition	Example of indexable insert
		P	M	K	N	S	H	O	01	10	20	30	40				
		Steel	Stainless steel	Cast iron	NF metals	Materials with difficult cutting properties	Hard materials	Other	05	15	25	35	45				
WPV10	HC - P 10	●●							▲					CVD	TiCN + Al ₂ O ₃ + TiN		
	HC - M 20		●							▲							
	HC - K 20			●							▲						
WPV20	HC - P 20	●●							▲					CVD	TiCN + Al ₂ O ₃ + TiN		
	HC - M 20		●							▲							
	HC - K 30			●							▲						
WEP10	HE - P 10	●●							▲					PVD	TiCN + TiAlN		
	HE - M 10		●							▲							
	HE - K 10			●							▲						

HC = Coated carbide
HE = Coated cermet

Geometry overview of turning inserts – Negative basic shape

Finishing operation												
Geometry	Remarks/field of applications	Material groups							Main cutting edge section	Corner radius section	a _p [mm]	f [mm]
		P	M	K	N	S	H	O				
		Steel	Stainless steel	Cast iron	NF metals	Materials with difficult cutting properties	Hard materials	Other				
	FV5 – Finishing steel materials – Can also be used in semi-finishing	●●	●	●							0,2–2,0	0,05–0,25
Medium machining												
	MV5 – Universal geometry for steel materials – Wide range of applications	●●	●	●							0,5–4,0	0,10–0,45
Roughing operation												
	RV5 – Roughing steel materials – Roughing ductile cast iron	●●	●	●							1,0–6,0	0,15–0,60

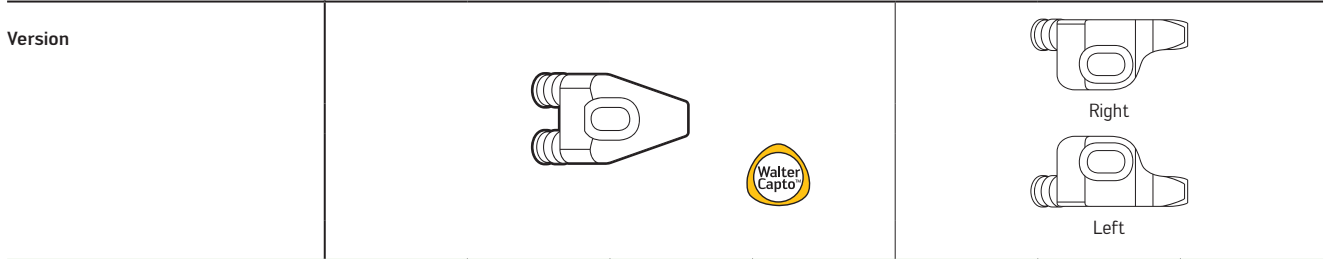
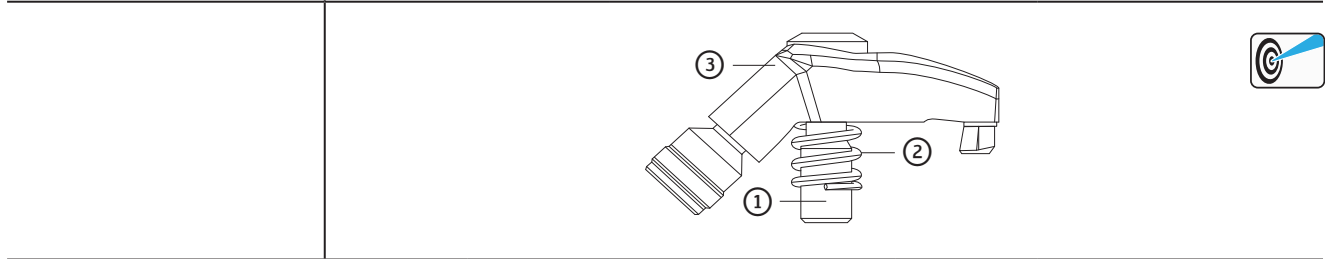
●● Primary application
● Additional application







Comment: Sectional views show CNMG120408.

Assembly parts and accessories for Walter Turn rigid clamping with precision cooling

Standard clamps for tools with precision cooling

Application  for indexable inserts with drilled hole


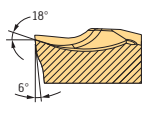


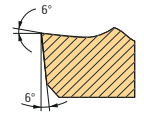



Set	PK255 set	PK256 set	PK264 set	PK267 set	PK261R/L set	PK265R/L set	PK266R/L set
① Clamp screw	FS1473 (Torx 15IP)	FS1473 (Torx 15IP)	FS1474 (Torx 20IP)	FS1474 (Torx 20IP)	FS1473 (Torx 15IP)	FS1473 (Torx 15IP)	FS1473 (Torx 15IP)
② Pressure spring	FS2188	FS2188	FS2298	FS2298	FS2188	FS2188	FS2188
③ Clamp	PK255	PK256	PK264	PK267	PK261R/L	PK265R/L	PK266R/L
Type	Size						
	CN .. 12 ..		CN .. 19 ..	CN .. 16 ..	CN .. 12 ..	CN .. 12 .. ¹⁾	
	DN .. 11 ..	DN .. 15 ..			DN .. 11 .. DC .. 11 ..	DN .. 15 ..	
	SN .. 12 ..				SN .. 12 ..	SN .. 12 .. ¹⁾	
	TN .. 16 .. TC .. 16T3 ..				TN .. 16 .. TC .. 16T3 ..		
	VB .. 1604 ..				VB .. 1604 ..		
	WN .. 08 ..						WN .. 08 ..

¹⁾ First choice


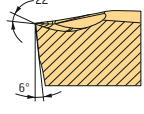

Geometry overview of cutting inserts:

GX system: Grooving and parting off

Geometry	Remarks/ field of applications	Material groups							Main cutting edge section	View of main cutting edge	s [mm]	f [mm]
		P Steel	M Stainless steel	K Cast iron	N NF metals	S Materials with difficult cutting properties	H Hard materials	O Other				
 <p>CK8 – Grooving and parting off operations – Light to moderate feeds – Good chip control – Low burr/centre pip formation – Polished rake face</p>										2	0,04–0,15	
										2,5	0,05–0,15	
										3	0,08–0,20	
										4	0,10–0,22	
										5	0,10–0,25	
 <p>GD8 – For DIN 471 circlip grooves with the tolerance class H13 – For precision grooving – Extremely soft cutting action – Light to moderate feeds</p>									1	0,03–0,06		
									1,5	0,03–0,09		
									2	0,04–0,10		
									2,5	0,04–0,14		
									3	0,04–0,14		


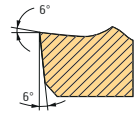
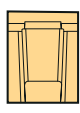

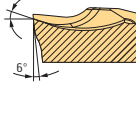


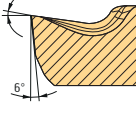
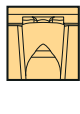
●● Primary application
 ● Additional application

GX system: Grooving, parting off and recessing

Geometry	Remarks/ field of applications	Material groups							Main cutting edge section	View of main cutting edge	s [mm]	a _p [mm]	f [mm]
		P Steel	M Stainless steel	K Cast iron	N NF metals	S Materials with difficult cutting properties	H Hard materials	O Other					
 <p>UF8 – All grooving operations – Excellent chip control – Low to average feed range – For DIN 471 circlip grooves with the tolerance class H13</p>										1,6	0,3–1,0	0,05–0,17	
										2	0,3–1,2	0,05–0,22	
										3	0,4–1,5	0,07–0,24	
										4	0,3–2,2	0,07–0,30	
										5	0,3–2,6	0,11–0,35	
										6	0,3–3,2	0,11–0,35	
										8	1,0–4,2	0,13–0,40	


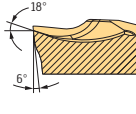

●● Primary application
 ● Additional application

MX system: Cutting inserts for grooving and parting off

Geometry	Remarks/ field of applications	Material groups							Main cutting edge section	View of main cutting edge	s [mm]	f [mm]
		P	M	K	N	S	H	O				
	GD8 – For DIN 471 circlip grooves with the tolerance class H13 – For precision grooving – Extremely soft cutting action – Light to moderate feeds	●●	●	●	●	●					1	0,03–0,06
											1,5	0,03–0,09
											2	0,04–0,10
											2,5	0,04–0,14
											3	0,04–0,14
	CF5 – Grooving and parting off operations – Light to moderate feeds – Excellent chip control – Low burr/centre pip formation	●●	●●	●	●	●●				1	0,03–0,07	
										1,5	0,03–0,10	
										2	0,04–0,14	
										2,5	0,04–0,16	
	RF5 – For full radius grooves – Circumference fully ground – For low to moderate feeds	●●	●●	●	●	●●				2	0,04–0,14	
										2,5	0,04–0,18	
										3	0,04–0,20	

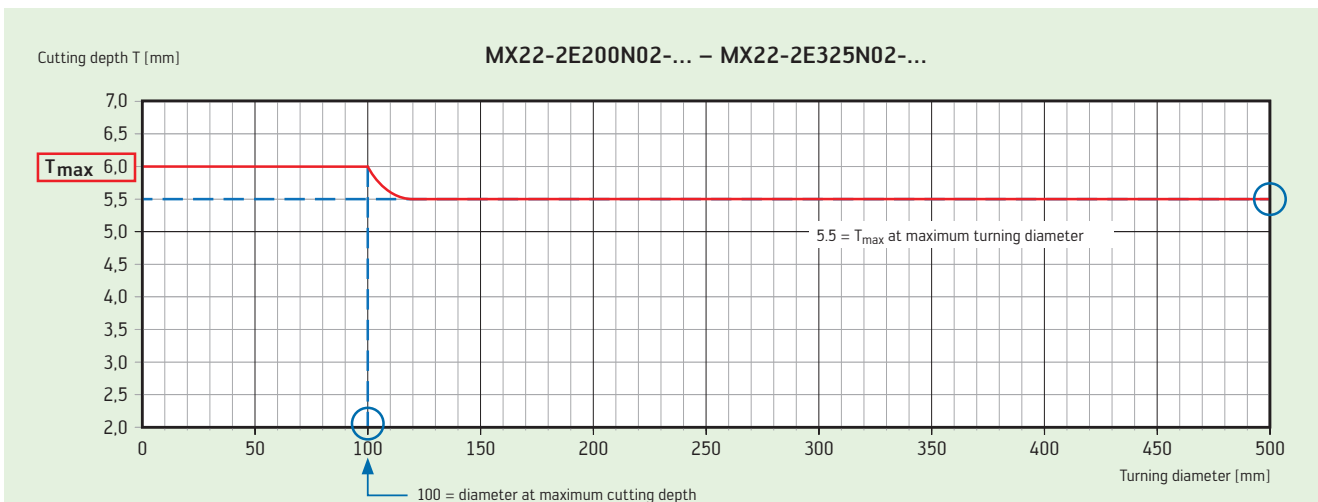
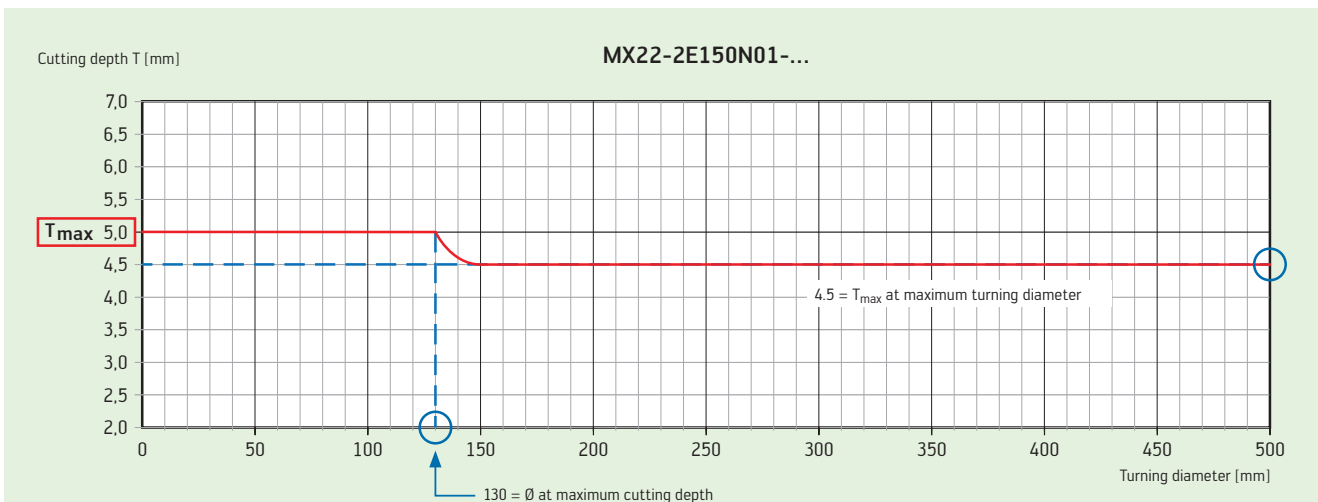
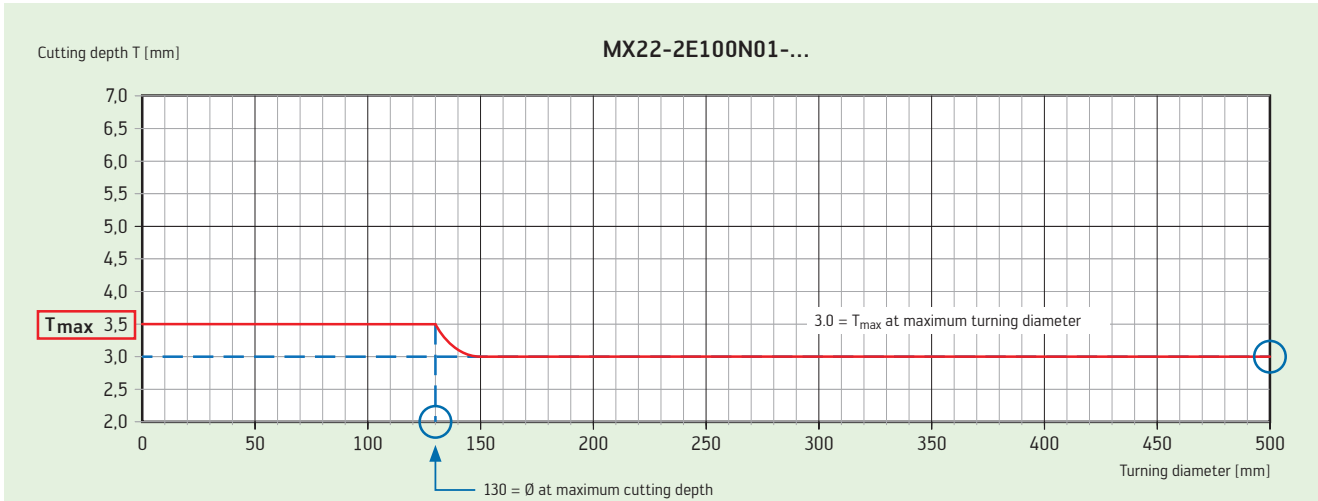
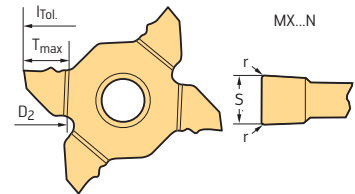
- Primary application
- Additional application

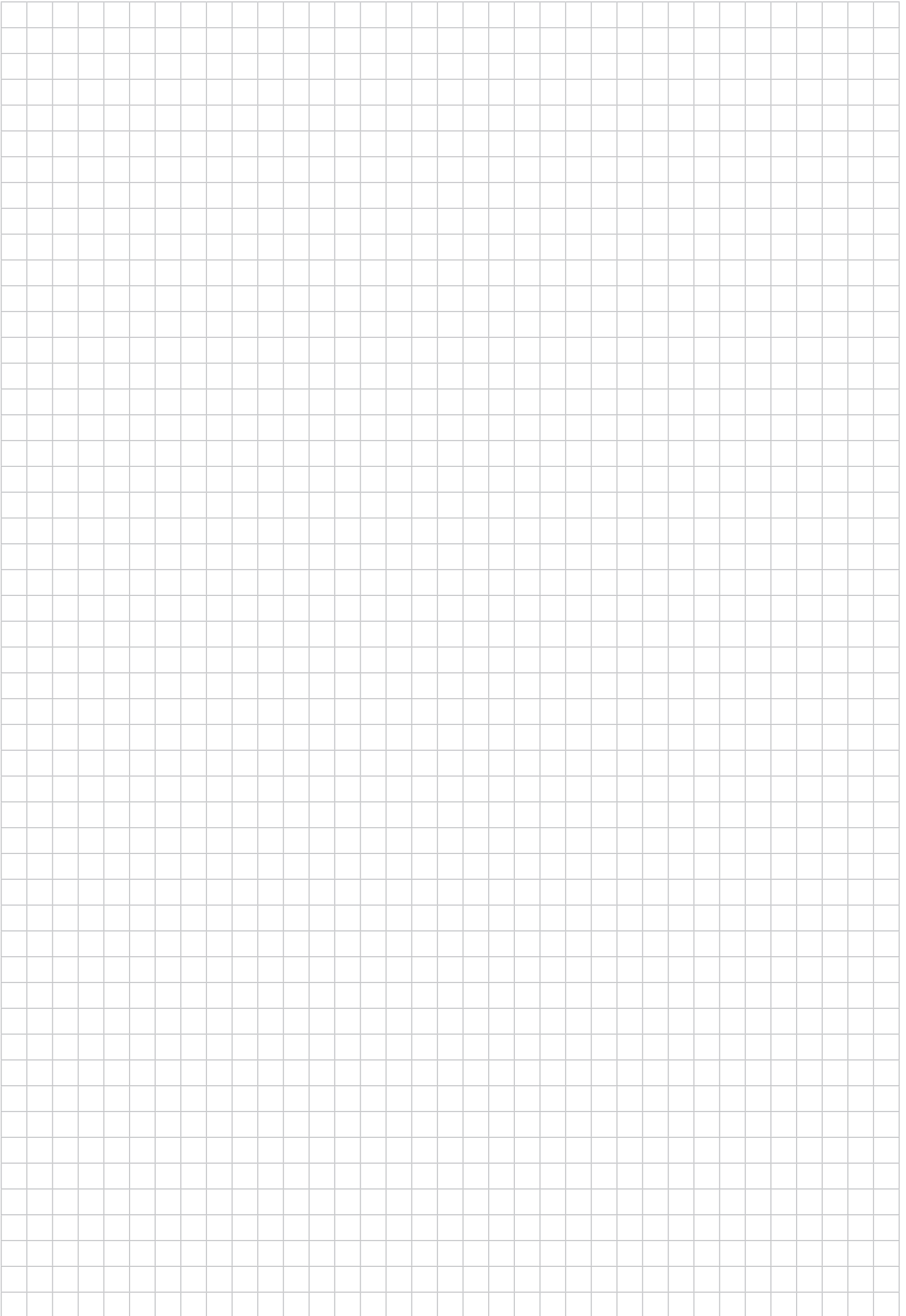
SX system: Grooving and parting off

Geometry	Remarks/ field of applications	Material groups							Main cutting edge section	View of main cutting edge	s [mm]	f [mm]
		P	M	K	N	S	H	O				
	CK8 – Grooving and parting off operations – Light to moderate feeds – Good chip control – Low burr/centre pip formation – Polished rake face				●●	●					2	0,04–0,15
											2,5	0,05–0,15
											3	0,08–0,20
											4	0,10–0,22
											5	0,10–0,25

- Primary application
- Additional application

Application information: Cutting depths depending on turning diameter





Solid drilling – B1

Solid carbide drilling and reaming tools	Designation key	106
	Solid carbide drills with internal coolant	107
	Solid carbide drills without internal coolant	122
Indexable inserts for drilling	Indexable inserts for drilling	136
Drilling tools with indexable inserts	Designation key	141
	Indexable insert drills	142
HSS drilling and reaming tools	HSS drills	162

Technical information – B1

Solid carbide drilling and reaming tools	Cutting data	166
Drilling tools with indexable inserts	Cutting data	170
	Drilling with X offset	176
	Drilling strategies	177
HSS drilling and reaming tools	Cutting data	178

Counterboring and precision boring – B2

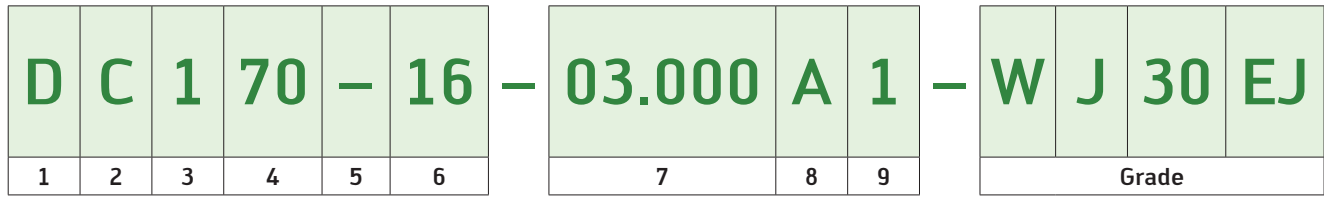
Indexable inserts for counterboring and precision boring	Indexable inserts for counterboring and precision boring tools	180
Tools for counterboring and precision boring	Walter Capto™/ScrewFit/NCT two flute boring tools	182
Cartridges	Walter precision boring cartridges	188

Technical information – B2

Counterboring and precision boring tools	Cutting data	190
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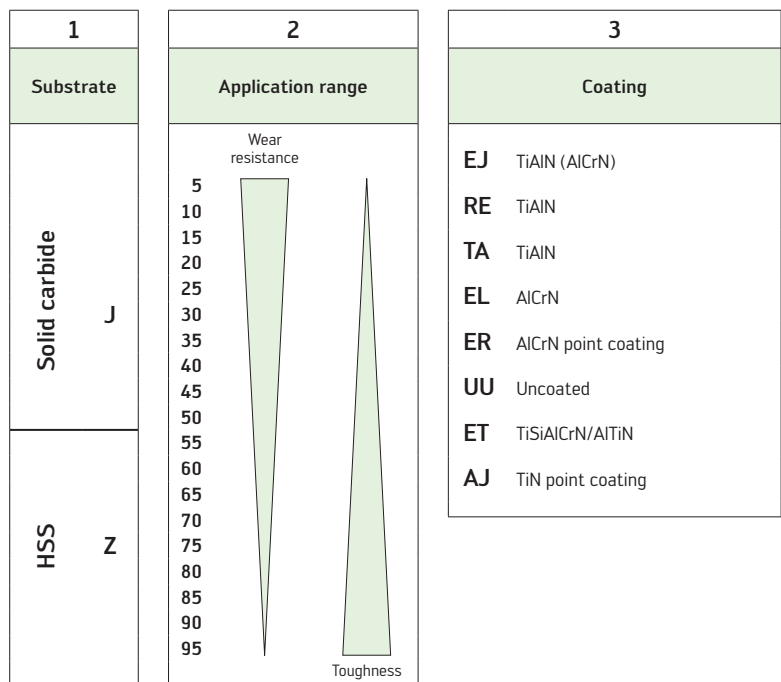
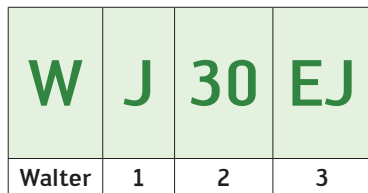
Designation key for Walter Titex solid drills



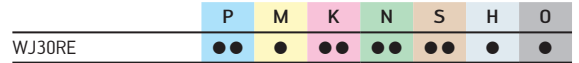
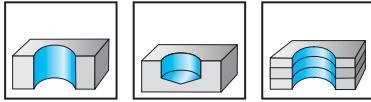
B1

1	2	3	4	5
Tool group	Generation	Tool type	Tool type	1. Delimiters
D Drilling		1 Cylindrical drill	33 Supreme micro drill 30 Advance micro drill 50 Universal Perform 60 Universal Advance 70 ISO P; ISO K Supreme	- Metric · Inch
6	7	8	9	
Drilling depth	Cutting diameter	Shank type	Cooling	
03 $\approx 3 \times D_c$ in accordance with DIN 6537 short 05 $\approx 5 \times D_c$ in accordance with DIN 6537 long or in accordance with Walter standard 08 $\approx 8 \times D_c$ in accordance with Walter standard 12 $\approx 12 \times D_c$ in accordance with Walter standard	16 $\approx 16 \times D_c$ in accordance with Walter standard 20 $\approx 20 \times D_c$ in accordance with Walter standard 25 $\approx 25 \times D_c$ in accordance with Walter standard 30 $\approx 30 \times D_c$ in accordance with Walter standard	A DIN 6535 HA parallel shank F DIN 6535 HE parallel shank U Parallel shank D Parallel shank DIN 6535 HB/ DIN 6535 HE	0 External coolant 1 Axial internal coolant	

Grade designation key for solid carbide and HSS cutting tool materials



Solid carbide drills with coolant-through DC150 Perform

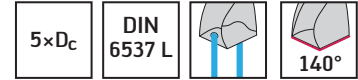
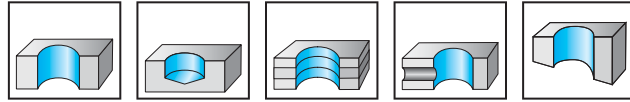


	Designation	D _c m7 mm	D _c Inch./no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB	DC150-03-03.000D1-	3		14	62	20	36	6	☉
	DC150-03-03.300D1-	3,3		14	62	20	36	6	☉
	DC150-03-03.400D1-	3,4		14	62	20	36	6	☉
	DC150-03-03.500D1-	3,5		14	62	20	36	6	☉
	DC150-03-03.700D1-	3,7		14	62	20	36	6	☉
	DC150-03-03.800D1-	3,8		17	66	24	36	6	☉
	DC150-03-04.000D1-	4		17	66	24	36	6	☉
	DC150-03-04.200D1-	4,2		17	66	24	36	6	☉
	DC150-03-04.300D1-	4,3		17	66	24	36	6	☉
	DC150-03-04.500D1-	4,5		17	66	24	36	6	☉
	DC150-03-04.800D1-	4,8		20	66	28	36	6	☉
	DC150-03-05.000D1-	5		20	66	28	36	6	☉
	DC150-03-05.100D1-	5,1		20	66	28	36	6	☉
	DC150-03-05.300D1-	5,3		20	66	28	36	6	☉
	DC150-03-05.500D1-	5,5		20	66	28	36	6	☉
	DC150-03-06.000D1-	6		20	66	28	36	6	☉
	DC150-03-06.500D1-	6,5		24	79	34	36	8	☉
	DC150-03-06.700D1-	6,7		24	79	34	36	8	☉
	DC150-03-06.800D1-	6,8		24	79	34	36	8	☉
	DC150-03-07.000D1-	7		24	79	34	36	8	☉
DC150-03-07.500D1-	7,5		29	79	41	36	8	☉	
DC150-03-07.800D1-	7,8		29	79	41	36	8	☉	
DC150-03-08.000D1-	8		29	79	41	36	8	☉	
DC150-03-08.500D1-	8,5		35	89	47	40	10	☉	
DC150-03-08.600D1-	8,6		35	89	47	40	10	☉	
DC150-03-08.800D1-	8,8		35	89	47	40	10	☉	
DC150-03-09.000D1-	9		35	89	47	40	10	☉	
DC150-03-10.000D1-	10		35	89	47	40	10	☉	
DC150-03-10.200D1-	10,2		40	102	55	45	12	☉	
DC150-03-10.300D1-	10,3		40	102	55	45	12	☉	
DC150-03-10.500D1-	10,5		40	102	55	45	12	☉	
DC150-03-10.800D1-	10,8		40	102	55	45	12	☉	
DC150-03-11.000D1-	11		40	102	55	45	12	☉	
DC150-03-11.800D1-	11,8		40	102	55	45	12	☉	
DC150-03-12.000D1-	12		40	102	55	45	12	☉	
DC150-03-12.200D1-	12,2		43	107	60	45	14	☉	
DC150-03-12.500D1-	12,5		43	107	60	45	14	☉	
DC150-03-13.000D1-	13		43	107	60	45	14	☉	
DC150-03-14.000D1-	14		43	107	60	45	14	☉	
DC150-03-15.000D1-	15		45	115	65	48	16	☉	
DC150-03-15.500D1-	15,5		45	115	65	48	16	☉	
DC150-03-16.000D1-	16		45	115	65	48	16	☉	
DC150-03-16.500D1-	16,5		51	123	73	48	18	☉	
DC150-03-17.000D1-	17		51	123	73	48	18	☉	
DC150-03-17.500D1-	17,5		51	123	73	48	18	☉	
DC150-03-18.000D1-	18		51	123	73	48	18	☉	
DC150-03-19.000D1-	19		55	131	79	50	20	☉	
DC150-03-20.000D1-	20		55	131	79	50	20	☉	

Ordering example for the WJ30RE grade: DC150-03-03.000D1-WJ30RE

B1

Solid carbide drills with coolant-through DC160 Advance



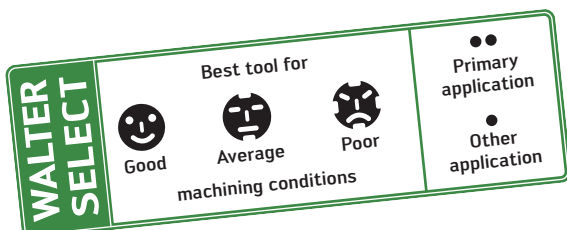
P	M	K	N	S	H	O
●	●	●	●	●	●	●

B1

Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA								
DC160-05-03.000A1-	3		23	66	28	36	6	●
DC160-05-03.100A1-	3,1		23	66	28	36	6	●
DC160-05-03.175A1-	3,175	1/8"	23	66	28	36	6	●
DC160-05-03.200A1-	3,2		23	66	28	36	6	●
DC160-05-03.250A1-	3,25		23	66	28	36	6	●
DC160-05-03.300A1-	3,3		23	66	28	36	6	●
DC160-05-03.400A1-	3,4		23	66	28	36	6	●
DC160-05-03.500A1-	3,5		23	66	28	36	6	●
DC160-05-03.572A1-	3,572	9/64"	23	66	28	36	6	●
DC160-05-03.600A1-	3,6		23	66	28	36	6	●
DC160-05-03.650A1-	3,65		23	66	28	36	6	●
DC160-05-03.700A1-	3,7		23	66	28	36	6	●
DC160-05-03.800A1-	3,8		29	74	36	36	6	●
DC160-05-03.900A1-	3,9		29	74	36	36	6	●
DC160-05-03.969A1-	3,969	5/32"	29	74	36	36	6	●
DC160-05-04.000A1-	4		29	74	36	36	6	●
DC160-05-04.100A1-	4,1		29	74	36	36	6	●
DC160-05-04.200A1-	4,2		29	74	36	36	6	●
DC160-05-04.300A1-	4,3		29	74	36	36	6	●
DC160-05-04.366A1-	4,366	11/64"	29	74	36	36	6	●
DC160-05-04.400A1-	4,4		29	74	36	36	6	●
DC160-05-04.500A1-	4,5		29	74	36	36	6	●
DC160-05-04.600A1-	4,6		29	74	36	36	6	●
DC160-05-04.650A1-	4,65		29	74	36	36	6	●
DC160-05-04.700A1-	4,7		29	74	36	36	6	●
DC160-05-04.763A1-	4,763	3/16"	35	82	44	36	6	●
DC160-05-04.800A1-	4,8		35	82	44	36	6	●
DC160-05-04.900A1-	4,9		35	82	44	36	6	●
DC160-05-05.000A1-	5		35	82	44	36	6	●
DC160-05-05.100A1-	5,1		35	82	44	36	6	●
DC160-05-05.159A1-	5,159	13/64"	35	82	44	36	6	●
DC160-05-05.200A1-	5,2		35	82	44	36	6	●
DC160-05-05.300A1-	5,3		35	82	44	36	6	●
DC160-05-05.400A1-	5,4		35	82	44	36	6	●
DC160-05-05.500A1-	5,5		35	82	44	36	6	●
DC160-05-05.550A1-	5,55		35	82	44	36	6	●
DC160-05-05.556A1-	5,556	7/32"	35	82	44	36	6	●
DC160-05-05.600A1-	5,6		35	82	44	36	6	●
DC160-05-05.700A1-	5,7		35	82	44	36	6	●
DC160-05-05.800A1-	5,8		35	82	44	36	6	●
DC160-05-05.900A1-	5,9		35	82	44	36	6	●
DC160-05-05.953A1-	5,953	15/64"	35	82	44	36	6	●
DC160-05-06.000A1-	6		35	82	44	36	6	●

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

Continued



Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA 	DC160-05-06.100A1-	6,1		43	91	53	36	8	
	DC160-05-06.200A1-	6,2		43	91	53	36	8	
	DC160-05-06.300A1-	6,3		43	91	53	36	8	
	DC160-05-06.350A1-	6,35	1/4"	43	91	53	36	8	
	DC160-05-06.400A1-	6,4		43	91	53	36	8	
	DC160-05-06.500A1-	6,5		43	91	53	36	8	
	DC160-05-06.600A1-	6,6		43	91	53	36	8	
	DC160-05-06.700A1-	6,7		43	91	53	36	8	
	DC160-05-06.747A1-	6,747	17/64"	43	91	53	36	8	
	DC160-05-06.800A1-	6,8		43	91	53	36	8	
	DC160-05-06.900A1-	6,9		43	91	53	36	8	
	DC160-05-07.000A1-	7		43	91	53	36	8	
	DC160-05-07.100A1-	7,1		43	91	53	36	8	
	DC160-05-07.144A1-	7,144	9/32"	43	91	53	36	8	
	DC160-05-07.200A1-	7,2		43	91	53	36	8	
	DC160-05-07.300A1-	7,3		43	91	53	36	8	
	DC160-05-07.400A1-	7,4		43	91	53	36	8	
	DC160-05-07.500A1-	7,5		43	91	53	36	8	
	DC160-05-07.541A1-	7,541	19/64"	43	91	53	36	8	
	DC160-05-07.550A1-	7,55		43	91	53	36	8	
	DC160-05-07.600A1-	7,6		43	91	53	36	8	
	DC160-05-07.700A1-	7,7		43	91	53	36	8	
	DC160-05-07.800A1-	7,8		43	91	53	36	8	
	DC160-05-07.900A1-	7,9		43	91	53	36	8	
	DC160-05-07.938A1-	7,938	5/16"	43	91	53	36	8	
	DC160-05-08.000A1-	8		43	91	53	36	8	
	DC160-05-08.100A1-	8,1		49	103	61	40	10	
	DC160-05-08.200A1-	8,2		49	103	61	40	10	
	DC160-05-08.300A1-	8,3		49	103	61	40	10	
	DC160-05-08.334A1-	8,334	21/64"	49	103	61	40	10	
	DC160-05-08.400A1-	8,4		49	103	61	40	10	
	DC160-05-08.500A1-	8,5		49	103	61	40	10	
	DC160-05-08.600A1-	8,6		49	103	61	40	10	
	DC160-05-08.700A1-	8,7		49	103	61	40	10	
	DC160-05-08.731A1-	8,731	11/32"	49	103	61	40	10	
	DC160-05-08.800A1-	8,8		49	103	61	40	10	
	DC160-05-08.900A1-	8,9		49	103	61	40	10	
	DC160-05-09.000A1-	9		49	103	61	40	10	
	DC160-05-09.100A1-	9,1		49	103	61	40	10	
	DC160-05-09.128A1-	9,128	23/64"	49	103	61	40	10	
	DC160-05-09.200A1-	9,2		49	103	61	40	10	
	DC160-05-09.300A1-	9,3		49	103	61	40	10	
	DC160-05-09.400A1-	9,4		49	103	61	40	10	
	DC160-05-09.500A1-	9,5		49	103	61	40	10	
	DC160-05-09.525A1-	9,525	3/8"	49	103	61	40	10	
DC160-05-09.550A1-	9,55		49	103	61	40	10		
DC160-05-09.600A1-	9,6		49	103	61	40	10		
DC160-05-09.700A1-	9,7		49	103	61	40	10		
DC160-05-09.800A1-	9,8		49	103	61	40	10		
DC160-05-09.900A1-	9,9		49	103	61	40	10		
DC160-05-09.922A1-	9,922	25/64"	49	103	61	40	10		
DC160-05-10.000A1-	10		49	103	61	40	10		
DC160-05-10.100A1-	10,1		56	118	71	45	12		
DC160-05-10.200A1-	10,2		56	118	71	45	12		
DC160-05-10.300A1-	10,3		56	118	71	45	12		
DC160-05-10.319A1-	10,319	13/32"	56	118	71	45	12		
DC160-05-10.400A1-	10,4		56	118	71	45	12		
DC160-05-10.500A1-	10,5		56	118	71	45	12		
DC160-05-10.600A1-	10,6		56	118	71	45	12		
DC160-05-10.700A1-	10,7		56	118	71	45	12		
DC160-05-10.716A1-	10,716	27/64"	56	118	71	45	12		

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

Continued

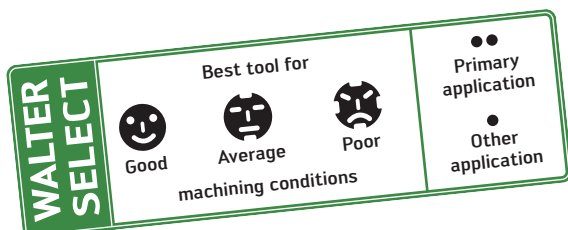
/ ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA 	DC160-05-10.800A1-	10,8		56	118	71	45	12	☺☺
	DC160-05-10.900A1-	10,9		56	118	71	45	12	☺☺
	DC160-05-11.000A1-	11		56	118	71	45	12	☺☺
	DC160-05-11.100A1-	11,1		56	118	71	45	12	☺☺
	DC160-05-11.113A1-	11,113	7/16"	56	118	71	45	12	☺☺
	DC160-05-11.200A1-	11,2		56	118	71	45	12	☺☺
	DC160-05-11.300A1-	11,3		56	118	71	45	12	☺☺
	DC160-05-11.400A1-	11,4		56	118	71	45	12	☺☺
	DC160-05-11.500A1-	11,5		56	118	71	45	12	☺☺
	DC160-05-11.509A1-	11,509	29/64"	56	118	71	45	12	☺☺
	DC160-05-11.550A1-	11,55		56	118	71	45	12	☺☺
	DC160-05-11.600A1-	11,6		56	118	71	45	12	☺☺
	DC160-05-11.700A1-	11,7		56	118	71	45	12	☺☺
	DC160-05-11.800A1-	11,8		56	118	71	45	12	☺☺
	DC160-05-11.900A1-	11,9		56	118	71	45	12	☺☺
	DC160-05-11.906A1-	11,906	15/32"	56	118	71	45	12	☺☺
	DC160-05-12.000A1-	12		56	118	71	45	12	☺☺
	DC160-05-12.100A1-	12,1		60	124	77	45	14	☺☺
	DC160-05-12.200A1-	12,2		60	124	77	45	14	☺☺
	DC160-05-12.250A1-	12,25		60	124	77	45	14	☺☺
	DC160-05-12.300A1-	12,3		60	124	77	45	14	☺☺
	DC160-05-12.303A1-	12,303	31/64"	60	124	77	45	14	☺☺
	DC160-05-12.400A1-	12,4		60	124	77	45	14	☺☺
	DC160-05-12.500A1-	12,5		60	124	77	45	14	☺☺
	DC160-05-12.600A1-	12,6		60	124	77	45	14	☺☺
	DC160-05-12.700A1-	12,7	1/2"	60	124	77	45	14	☺☺
	DC160-05-12.750A1-	12,75		60	124	77	45	14	☺☺
	DC160-05-12.800A1-	12,8		60	124	77	45	14	☺☺
	DC160-05-12.900A1-	12,9		60	124	77	45	14	☺☺
	DC160-05-13.000A1-	13		60	124	77	45	14	☺☺
	DC160-05-13.100A1-	13,1		60	124	77	45	14	☺☺
	DC160-05-13.200A1-	13,2		60	124	77	45	14	☺☺
	DC160-05-13.300A1-	13,3		60	124	77	45	14	☺☺
	DC160-05-13.400A1-	13,4		60	124	77	45	14	☺☺
	DC160-05-13.494A1-	13,494	17/32"	60	124	77	45	14	☺☺
	DC160-05-13.500A1-	13,5		60	124	77	45	14	☺☺
	DC160-05-13.600A1-	13,6		60	124	77	45	14	☺☺
	DC160-05-13.700A1-	13,7		60	124	77	45	14	☺☺
	DC160-05-13.800A1-	13,8		60	124	77	45	14	☺☺
	DC160-05-13.900A1-	13,9		60	124	77	45	14	☺☺
DC160-05-14.000A1-	14		60	124	77	45	14	☺☺	
DC160-05-14.100A1-	14,1		63	133	83	48	16	☺☺	
DC160-05-14.200A1-	14,2		63	133	83	48	16	☺☺	
DC160-05-14.288A1-	14,288	9/16"	63	133	83	48	16	☺☺	
DC160-05-14.300A1-	14,3		63	133	83	48	16	☺☺	
DC160-05-14.400A1-	14,4		63	133	83	48	16	☺☺	
DC160-05-14.500A1-	14,5		63	133	83	48	16	☺☺	
DC160-05-14.600A1-	14,6		63	133	83	48	16	☺☺	
DC160-05-14.700A1-	14,7		63	133	83	48	16	☺☺	
DC160-05-14.750A1-	14,75		63	133	83	48	16	☺☺	
DC160-05-14.800A1-	14,8		63	133	83	48	16	☺☺	
DC160-05-14.900A1-	14,9		63	133	83	48	16	☺☺	
DC160-05-15.000A1-	15		63	133	83	48	16	☺☺	
DC160-05-15.100A1-	15,1		63	133	83	48	16	☺☺	
DC160-05-15.200A1-	15,2		63	133	83	48	16	☺☺	
DC160-05-15.300A1-	15,3		63	133	83	48	16	☺☺	
DC160-05-15.400A1-	15,4		63	133	83	48	16	☺☺	

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

Continued



Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-05-15.500A1-	15,5		63	133	83	48	16	☺☺☺
	DC160-05-15.600A1-	15,6		63	133	83	48	16	☺☺☺
	DC160-05-15.700A1-	15,7		63	133	83	48	16	☺☺☺
	DC160-05-15.800A1-	15,8		63	133	83	48	16	☺☺☺
	DC160-05-15.875A1-	15,875	5/8"	63	133	83	48	16	☺☺☺
	DC160-05-15.900A1-	15,9		63	133	83	48	16	☺☺☺
	DC160-05-16.000A1-	16		63	133	83	48	16	☺☺☺
	DC160-05-16.100A1-	16,1		71	143	93	48	18	☺☺☺
	DC160-05-16.200A1-	16,2		71	143	93	48	18	☺☺☺
	DC160-05-16.300A1-	16,3		71	143	93	48	18	☺☺☺
	DC160-05-16.400A1-	16,4		71	143	93	48	18	☺☺☺
	DC160-05-16.500A1-	16,5		71	143	93	48	18	☺☺☺
	DC160-05-16.600A1-	16,6		71	143	93	48	18	☺☺☺
	DC160-05-16.700A1-	16,7		71	143	93	48	18	☺☺☺
	DC160-05-16.750A1-	16,75		71	143	93	48	18	☺☺☺
	DC160-05-16.800A1-	16,8		71	143	93	48	18	☺☺☺
	DC160-05-16.900A1-	16,9		71	143	93	48	18	☺☺☺
	DC160-05-17.000A1-	17		71	143	93	48	18	☺☺☺
	DC160-05-17.100A1-	17,1		71	143	93	48	18	☺☺☺
	DC160-05-17.200A1-	17,2		71	143	93	48	18	☺☺☺
	DC160-05-17.300A1-	17,3		71	143	93	48	18	☺☺☺
	DC160-05-17.400A1-	17,4		71	143	93	48	18	☺☺☺
	DC160-05-17.500A1-	17,5		71	143	93	48	18	☺☺☺
	DC160-05-17.600A1-	17,6		71	143	93	48	18	☺☺☺
	DC160-05-17.700A1-	17,7		71	143	93	48	18	☺☺☺
DC160-05-17.800A1-	17,8		71	143	93	48	18	☺☺☺	
DC160-05-17.900A1-	17,9		71	143	93	48	18	☺☺☺	
DC160-05-18.000A1-	18		71	143	93	48	18	☺☺☺	
DC160-05-18.100A1-	18,1		77	153	101	50	20	☺☺☺	
DC160-05-18.200A1-	18,2		77	153	101	50	20	☺☺☺	
DC160-05-18.300A1-	18,3		77	153	101	50	20	☺☺☺	
DC160-05-18.400A1-	18,4		77	153	101	50	20	☺☺☺	
DC160-05-18.500A1-	18,5		77	153	101	50	20	☺☺☺	
DC160-05-18.600A1-	18,6		77	153	101	50	20	☺☺☺	
DC160-05-18.700A1-	18,7		77	153	101	50	20	☺☺☺	
DC160-05-18.800A1-	18,8		77	153	101	50	20	☺☺☺	
DC160-05-18.900A1-	18,9		77	153	101	50	20	☺☺☺	
DC160-05-19.000A1-	19		77	153	101	50	20	☺☺☺	
DC160-05-19.050A1-	19,05	3/4"	77	153	101	50	20	☺☺☺	
DC160-05-19.100A1-	19,1		77	153	101	50	20	☺☺☺	
DC160-05-19.200A1-	19,2		77	153	101	50	20	☺☺☺	
DC160-05-19.300A1-	19,3		77	153	101	50	20	☺☺☺	
DC160-05-19.400A1-	19,4		77	153	101	50	20	☺☺☺	
DC160-05-19.500A1-	19,5		77	153	101	50	20	☺☺☺	
DC160-05-19.600A1-	19,6		77	153	101	50	20	☺☺☺	
DC160-05-19.700A1-	19,7		77	153	101	50	20	☺☺☺	
DC160-05-19.800A1-	19,8		77	153	101	50	20	☺☺☺	
DC160-05-19.900A1-	19,9		77	153	101	50	20	☺☺☺	
DC160-05-20.000A1-	20		77	153	101	50	20	☺☺☺	
DC160-05-20.500A1-	20,5		86	166	108	56	25	☺☺☺	
DC160-05-21.000A1-	21		86	166	108	56	25	☺☺☺	
DC160-05-21.500A1-	21,5		86	166	108	56	25	☺☺☺	
DC160-05-22.000A1-	22		86	166	108	56	25	☺☺☺	
DC160-05-22.500A1-	22,5		91	173	115	56	25	☺☺☺	
DC160-05-23.000A1-	23		91	173	115	56	25	☺☺☺	
DC160-05-23.500A1-	23,5		91	173	115	56	25	☺☺☺	
DC160-05-24.000A1-	24		91	173	115	56	25	☺☺☺	
DC160-05-24.500A1-	24,5		97	180	122	56	25	☺☺☺	
DC160-05-25.000A1-	25		97	180	122	56	25	☺☺☺	

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

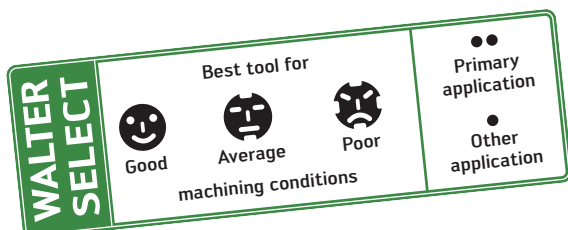
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	Designation	D _c mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Shank DIN 6535 HE								
	DC160-05-03.000F1-	3		23	66	28	36	6	☹️
	DC160-05-03.100F1-	3,1		23	66	28	36	6	☹️
	DC160-05-03.200F1-	3,2		23	66	28	36	6	☹️
	DC160-05-03.250F1-	3,25		23	66	28	36	6	☹️
	DC160-05-03.300F1-	3,3		23	66	28	36	6	☹️
	DC160-05-03.400F1-	3,4		23	66	28	36	6	☹️
	DC160-05-03.500F1-	3,5		23	66	28	36	6	☹️
	DC160-05-03.600F1-	3,6		23	66	28	36	6	☹️
	DC160-05-03.650F1-	3,65		23	66	28	36	6	☹️
	DC160-05-03.700F1-	3,7		23	66	28	36	6	☹️
	DC160-05-03.800F1-	3,8		29	74	36	36	6	☹️
	DC160-05-03.900F1-	3,9		29	74	36	36	6	☹️
	DC160-05-04.000F1-	4		29	74	36	36	6	☹️
	DC160-05-04.100F1-	4,1		29	74	36	36	6	☹️
	DC160-05-04.200F1-	4,2		29	74	36	36	6	☹️
	DC160-05-04.300F1-	4,3		29	74	36	36	6	☹️
	DC160-05-04.400F1-	4,4		29	74	36	36	6	☹️
	DC160-05-04.500F1-	4,5		29	74	36	36	6	☹️
	DC160-05-04.600F1-	4,6		29	74	36	36	6	☹️
	DC160-05-04.650F1-	4,65		29	74	36	36	6	☹️
	DC160-05-04.700F1-	4,7		29	74	36	36	6	☹️
	DC160-05-04.800F1-	4,8		35	82	44	36	6	☹️
	DC160-05-04.900F1-	4,9		35	82	44	36	6	☹️
	DC160-05-05.000F1-	5		35	82	44	36	6	☹️
	DC160-05-05.100F1-	5,1		35	82	44	36	6	☹️
	DC160-05-05.200F1-	5,2		35	82	44	36	6	☹️
	DC160-05-05.300F1-	5,3		35	82	44	36	6	☹️
	DC160-05-05.400F1-	5,4		35	82	44	36	6	☹️
	DC160-05-05.500F1-	5,5		35	82	44	36	6	☹️
	DC160-05-05.550F1-	5,55		35	82	44	36	6	☹️
	DC160-05-05.600F1-	5,6		35	82	44	36	6	☹️
	DC160-05-05.700F1-	5,7		35	82	44	36	6	☹️
	DC160-05-05.800F1-	5,8		35	82	44	36	6	☹️
	DC160-05-05.900F1-	5,9		35	82	44	36	6	☹️
	DC160-05-06.000F1-	6		35	82	44	36	6	☹️
	DC160-05-06.100F1-	6,1		43	91	53	36	8	☹️
	DC160-05-06.200F1-	6,2		43	91	53	36	8	☹️
	DC160-05-06.300F1-	6,3		43	91	53	36	8	☹️
	DC160-05-06.400F1-	6,4		43	91	53	36	8	☹️
	DC160-05-06.500F1-	6,5		43	91	53	36	8	☹️
	DC160-05-06.600F1-	6,6		43	91	53	36	8	☹️
	DC160-05-06.700F1-	6,7		43	91	53	36	8	☹️
	DC160-05-06.800F1-	6,8		43	91	53	36	8	☹️
	DC160-05-06.900F1-	6,9		43	91	53	36	8	☹️
DC160-05-07.000F1-	7		43	91	53	36	8	☹️	
DC160-05-07.100F1-	7,1		43	91	53	36	8	☹️	
DC160-05-07.200F1-	7,2		43	91	53	36	8	☹️	
DC160-05-07.300F1-	7,3		43	91	53	36	8	☹️	
DC160-05-07.400F1-	7,4		43	91	53	36	8	☹️	
DC160-05-07.500F1-	7,5		43	91	53	36	8	☹️	
DC160-05-07.550F1-	7,55		43	91	53	36	8	☹️	
DC160-05-07.600F1-	7,6		43	91	53	36	8	☹️	
DC160-05-07.700F1-	7,7		43	91	53	36	8	☹️	
DC160-05-07.800F1-	7,8		43	91	53	36	8	☹️	
DC160-05-07.900F1-	7,9		43	91	53	36	8	☹️	
DC160-05-08.000F1-	8		43	91	53	36	8	☹️	
DC160-05-08.100F1-	8,1		49	103	61	40	10	☹️	

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

Continued



Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-05-08.200F1-	8,2		49	103	61	40	10	☺
	DC160-05-08.300F1-	8,3		49	103	61	40	10	☺
	DC160-05-08.400F1-	8,4		49	103	61	40	10	☺
	DC160-05-08.500F1-	8,5		49	103	61	40	10	☺
	DC160-05-08.600F1-	8,6		49	103	61	40	10	☺
	DC160-05-08.700F1-	8,7		49	103	61	40	10	☺
	DC160-05-08.800F1-	8,8		49	103	61	40	10	☺
	DC160-05-08.900F1-	8,9		49	103	61	40	10	☺
	DC160-05-09.000F1-	9		49	103	61	40	10	☺
	DC160-05-09.100F1-	9,1		49	103	61	40	10	☺
	DC160-05-09.200F1-	9,2		49	103	61	40	10	☺
	DC160-05-09.300F1-	9,3		49	103	61	40	10	☺
	DC160-05-09.400F1-	9,4		49	103	61	40	10	☺
	DC160-05-09.500F1-	9,5		49	103	61	40	10	☺
	DC160-05-09.550F1-	9,55		49	103	61	40	10	☺
	DC160-05-09.600F1-	9,6		49	103	61	40	10	☺
	DC160-05-09.700F1-	9,7		49	103	61	40	10	☺
	DC160-05-09.800F1-	9,8		49	103	61	40	10	☺
	DC160-05-09.900F1-	9,9		49	103	61	40	10	☺
	DC160-05-10.000F1-	10		49	103	61	40	10	☺
	DC160-05-10.100F1-	10,1		56	118	71	45	12	☺
	DC160-05-10.200F1-	10,2		56	118	71	45	12	☺
	DC160-05-10.300F1-	10,3		56	118	71	45	12	☺
	DC160-05-10.400F1-	10,4		56	118	71	45	12	☺
	DC160-05-10.500F1-	10,5		56	118	71	45	12	☺
	DC160-05-10.600F1-	10,6		56	118	71	45	12	☺
	DC160-05-10.700F1-	10,7		56	118	71	45	12	☺
	DC160-05-10.800F1-	10,8		56	118	71	45	12	☺
	DC160-05-10.900F1-	10,9		56	118	71	45	12	☺
	DC160-05-11.000F1-	11		56	118	71	45	12	☺
	DC160-05-11.100F1-	11,1		56	118	71	45	12	☺
	DC160-05-11.200F1-	11,2		56	118	71	45	12	☺
	DC160-05-11.300F1-	11,3		56	118	71	45	12	☺
	DC160-05-11.400F1-	11,4		56	118	71	45	12	☺
	DC160-05-11.500F1-	11,5		56	118	71	45	12	☺
	DC160-05-11.550F1-	11,55		56	118	71	45	12	☺
	DC160-05-11.600F1-	11,6		56	118	71	45	12	☺
	DC160-05-11.700F1-	11,7		56	118	71	45	12	☺
DC160-05-11.800F1-	11,8		56	118	71	45	12	☺	
DC160-05-11.900F1-	11,9		56	118	71	45	12	☺	
DC160-05-12.000F1-	12		56	118	71	45	12	☺	
DC160-05-12.100F1-	12,1		60	124	77	45	14	☺	
DC160-05-12.200F1-	12,2		60	124	77	45	14	☺	
DC160-05-12.250F1-	12,25		60	124	77	45	14	☺	
DC160-05-12.300F1-	12,3		60	124	77	45	14	☺	
DC160-05-12.400F1-	12,4		60	124	77	45	14	☺	
DC160-05-12.500F1-	12,5		60	124	77	45	14	☺	
DC160-05-12.600F1-	12,6		60	124	77	45	14	☺	
DC160-05-12.700F1-	12,7	1/2"	60	124	77	45	14	☺	
DC160-05-12.750F1-	12,75		60	124	77	45	14	☺	
DC160-05-12.800F1-	12,8		60	124	77	45	14	☺	
DC160-05-12.900F1-	12,9		60	124	77	45	14	☺	
DC160-05-13.000F1-	13		60	124	77	45	14	☺	
DC160-05-13.100F1-	13,1		60	124	77	45	14	☺	
DC160-05-13.200F1-	13,2		60	124	77	45	14	☺	
DC160-05-13.300F1-	13,3		60	124	77	45	14	☺	
DC160-05-13.400F1-	13,4		60	124	77	45	14	☺	
DC160-05-13.500F1-	13,5		60	124	77	45	14	☺	
DC160-05-13.600F1-	13,6		60	124	77	45	14	☺	
DC160-05-13.700F1-	13,7		60	124	77	45	14	☺	
DC160-05-13.800F1-	13,8		60	124	77	45	14	☺	

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

Continued

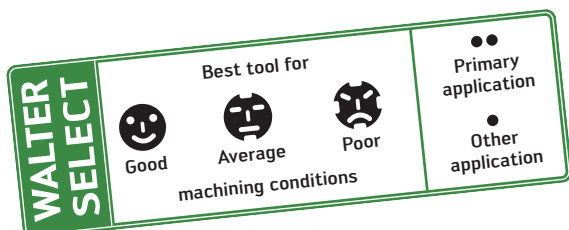
☺ / ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-05-13.900F1-	13,9		60	124	77	45	14	
	DC160-05-14.000F1-	14		60	124	77	45	14	
	DC160-05-14.100F1-	14,1		63	133	83	48	16	
	DC160-05-14.200F1-	14,2		63	133	83	48	16	
	DC160-05-14.300F1-	14,3		63	133	83	48	16	
	DC160-05-14.400F1-	14,4		63	133	83	48	16	
	DC160-05-14.500F1-	14,5		63	133	83	48	16	
	DC160-05-14.600F1-	14,6		63	133	83	48	16	
	DC160-05-14.700F1-	14,7		63	133	83	48	16	
	DC160-05-14.750F1-	14,75		63	133	83	48	16	
	DC160-05-14.800F1-	14,8		63	133	83	48	16	
	DC160-05-14.900F1-	14,9		63	133	83	48	16	
	DC160-05-15.000F1-	15		63	133	83	48	16	
	DC160-05-15.100F1-	15,1		63	133	83	48	16	
	DC160-05-15.200F1-	15,2		63	133	83	48	16	
	DC160-05-15.300F1-	15,3		63	133	83	48	16	
	DC160-05-15.400F1-	15,4		63	133	83	48	16	
	DC160-05-15.500F1-	15,5		63	133	83	48	16	
	DC160-05-15.600F1-	15,6		63	133	83	48	16	
	DC160-05-15.700F1-	15,7		63	133	83	48	16	
	DC160-05-15.800F1-	15,8		63	133	83	48	16	
	DC160-05-15.900F1-	15,9		63	133	83	48	16	
	DC160-05-16.000F1-	16		63	133	83	48	16	
	DC160-05-16.100F1-	16,1		71	143	93	48	18	
	DC160-05-16.200F1-	16,2		71	143	93	48	18	
	DC160-05-16.300F1-	16,3		71	143	93	48	18	
	DC160-05-16.400F1-	16,4		71	143	93	48	18	
	DC160-05-16.500F1-	16,5		71	143	93	48	18	
	DC160-05-16.600F1-	16,6		71	143	93	48	18	
	DC160-05-16.700F1-	16,7		71	143	93	48	18	
	DC160-05-16.750F1-	16,75		71	143	93	48	18	
	DC160-05-16.800F1-	16,8		71	143	93	48	18	
	DC160-05-16.900F1-	16,9		71	143	93	48	18	
DC160-05-17.000F1-	17		71	143	93	48	18		
DC160-05-17.100F1-	17,1		71	143	93	48	18		
DC160-05-17.200F1-	17,2		71	143	93	48	18		
DC160-05-17.300F1-	17,3		71	143	93	48	18		
DC160-05-17.400F1-	17,4		71	143	93	48	18		
DC160-05-17.500F1-	17,5		71	143	93	48	18		
DC160-05-17.600F1-	17,6		71	143	93	48	18		
DC160-05-17.700F1-	17,7		71	143	93	48	18		
DC160-05-17.800F1-	17,8		71	143	93	48	18		
DC160-05-17.900F1-	17,9		71	143	93	48	18		
DC160-05-18.000F1-	18		71	143	93	48	18		
DC160-05-18.100F1-	18,1		77	153	101	50	20		
DC160-05-18.200F1-	18,2		77	153	101	50	20		
DC160-05-18.300F1-	18,3		77	153	101	50	20		
DC160-05-18.400F1-	18,4		77	153	101	50	20		
DC160-05-18.500F1-	18,5		77	153	101	50	20		
DC160-05-18.600F1-	18,6		77	153	101	50	20		
DC160-05-18.700F1-	18,7		77	153	101	50	20		
DC160-05-18.800F1-	18,8		77	153	101	50	20		
DC160-05-18.900F1-	18,9		77	153	101	50	20		
DC160-05-19.000F1-	19		77	153	101	50	20		
DC160-05-19.100F1-	19,1		77	153	101	50	20		
DC160-05-19.200F1-	19,2		77	153	101	50	20		
DC160-05-19.300F1-	19,3		77	153	101	50	20		

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

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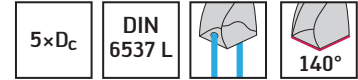
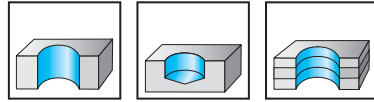
Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET	
	Shank DIN 6535 HE	DC160-05-19.400F1-	19,4		77	153	101	50	20	☺
	DC160-05-19.500F1-	19,5		77	153	101	50	20	☺	
	DC160-05-19.600F1-	19,6		77	153	101	50	20	☺	
	DC160-05-19.700F1-	19,7		77	153	101	50	20	☺	
	DC160-05-19.800F1-	19,8		77	153	101	50	20	☺	
	DC160-05-19.900F1-	19,9		77	153	101	50	20	☺	
	DC160-05-20.000F1-	20		77	153	101	50	20	☺	
	DC160-05-20.500F1-	20,5		86	166	108	56	25	☺	
	DC160-05-21.000F1-	21		86	166	108	56	25	☺	
	DC160-05-21.500F1-	21,5		86	166	108	56	25	☺	
	DC160-05-22.000F1-	22		86	166	108	56	25	☺	
	DC160-05-22.500F1-	22,5		91	173	115	56	25	☺	
	DC160-05-23.000F1-	23		91	173	115	56	25	☺	
	DC160-05-23.500F1-	23,5		91	173	115	56	25	☺	
	DC160-05-24.000F1-	24		91	173	115	56	25	☺	
	DC160-05-24.500F1-	24,5		97	180	122	56	25	☺	
DC160-05-25.000F1-	25		97	180	122	56	25	☺		

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

B1

Solid carbide drills with coolant-through DC150 Perform



	P	M	K	N	S	H	O
WJ30RE	●	●	●	●	●	●	●

B1

	Designation	D _c m7 mm	D _c Inch./no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB 	DC150-05-03.000D1-	3		23	66	28	36	6	●
	DC150-05-03.100D1-	3,1		23	66	28	36	6	●
	DC150-05-03.200D1-	3,2		23	66	28	36	6	●
	DC150-05-03.300D1-	3,3		23	66	28	36	6	●
	DC150-05-03.400D1-	3,4		23	66	28	36	6	●
	DC150-05-03.500D1-	3,5		23	66	28	36	6	●
	DC150-05-03.600D1-	3,6		23	66	28	36	6	●
	DC150-05-03.700D1-	3,7		23	66	28	36	6	●
	DC150-05-03.800D1-	3,8		29	74	36	36	6	●
	DC150-05-03.900D1-	3,9		29	74	36	36	6	●
	DC150-05-04.000D1-	4		29	74	36	36	6	●
	DC150-05-04.100D1-	4,1		29	74	36	36	6	●
	DC150-05-04.200D1-	4,2		29	74	36	36	6	●
	DC150-05-04.300D1-	4,3		29	74	36	36	6	●
	DC150-05-04.400D1-	4,4		29	74	36	36	6	●
	DC150-05-04.500D1-	4,5		29	74	36	36	6	●
	DC150-05-04.600D1-	4,6		29	74	36	36	6	●
	DC150-05-04.650D1-	4,65		29	74	36	36	6	●
	DC150-05-04.700D1-	4,7		29	74	36	36	6	●
	DC150-05-04.800D1-	4,8		35	82	44	36	6	●
	DC150-05-04.900D1-	4,9		35	82	44	36	6	●
	DC150-05-05.000D1-	5		35	82	44	36	6	●
	DC150-05-05.100D1-	5,1		35	82	44	36	6	●
	DC150-05-05.200D1-	5,2		35	82	44	36	6	●
	DC150-05-05.300D1-	5,3		35	82	44	36	6	●
	DC150-05-05.400D1-	5,4		35	82	44	36	6	●
	DC150-05-05.500D1-	5,5		35	82	44	36	6	●
	DC150-05-05.550D1-	5,55		35	82	44	36	6	●
	DC150-05-05.600D1-	5,6		35	82	44	36	6	●
	DC150-05-05.700D1-	5,7		35	82	44	36	6	●
	DC150-05-05.800D1-	5,8		35	82	44	36	6	●
	DC150-05-05.900D1-	5,9		35	82	44	36	6	●
	DC150-05-06.000D1-	6		35	82	44	36	6	●
DC150-05-06.100D1-	6,1		43	91	53	36	8	●	
DC150-05-06.200D1-	6,2		43	91	53	36	8	●	
DC150-05-06.300D1-	6,2		43	91	53	36	8	●	
DC150-05-06.400D1-	6,4		43	91	53	36	8	●	
DC150-05-06.500D1-	6,5		43	91	53	36	8	●	
DC150-05-06.600D1-	6,6		43	91	53	36	8	●	
DC150-05-06.700D1-	6,7		43	91	53	36	8	●	
DC150-05-06.800D1-	6,8		43	91	53	36	8	●	
DC150-05-06.900D1-	6,9		43	91	53	36	8	●	
DC150-05-07.000D1-	7		43	91	53	36	8	●	

Ordering example for the WJ30RE grade: DC150-05-03.000D1-WJ30RE

Continued

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB	DC150-05-07.100D1-	7,1		43	91	53	36	8	☺☺
	DC150-05-07.200D1-	7,2		43	91	53	36	8	☺☺
	DC150-05-07.300D1-	7,3		43	91	53	36	8	☺☺
	DC150-05-07.400D1-	7,4		43	91	53	36	8	☺☺
	DC150-05-07.500D1-	7,5		43	91	53	36	8	☺☺
	DC150-05-07.600D1-	7,6		43	91	53	36	8	☺☺
	DC150-05-07.700D1-	7,7		43	91	53	36	8	☺☺
	DC150-05-07.800D1-	7,8		43	91	53	36	8	☺☺
	DC150-05-07.900D1-	7,9		43	91	53	36	8	☺☺
	DC150-05-08.000D1-	8		43	91	53	36	8	☺☺
	DC150-05-08.100D1-	8,1		49	103	61	40	10	☺☺
	DC150-05-08.200D1-	8,2		49	103	61	40	10	☺☺
	DC150-05-08.300D1-	8,3		49	103	61	40	10	☺☺
	DC150-05-08.400D1-	8,4		49	103	61	40	10	☺☺
	DC150-05-08.500D1-	8,5		49	103	61	40	10	☺☺
	DC150-05-08.600D1-	8,6		49	103	61	40	10	☺☺
	DC150-05-08.700D1-	8,7		49	103	61	40	10	☺☺
	DC150-05-08.800D1-	8,8		49	103	61	40	10	☺☺
	DC150-05-09.000D1-	9		49	103	61	40	10	☺☺
	DC150-05-09.100D1-	9,1		49	103	61	40	10	☺☺
	DC150-05-09.200D1-	9,2		49	103	61	40	10	☺☺
	DC150-05-09.300D1-	9,3		49	103	61	40	10	☺☺
	DC150-05-09.400D1-	9,4		49	103	61	40	10	☺☺
	DC150-05-09.500D1-	9,5		49	103	61	40	10	☺☺
	DC150-05-09.600D1-	9,6		49	103	61	40	10	☺☺
	DC150-05-09.700D1-	9,7		49	103	61	40	10	☺☺
	DC150-05-09.800D1-	9,8		49	103	61	40	10	☺☺
	DC150-05-09.900D1-	9,9		49	103	61	40	10	☺☺
	DC150-05-10.000D1-	10		49	103	61	40	10	☺☺
	DC150-05-10.100D1-	10,1		56	118	71	45	12	☺☺
	DC150-05-10.200D1-	10,2		56	118	71	45	12	☺☺
	DC150-05-10.300D1-	10,3		56	118	71	45	12	☺☺
	DC150-05-10.400D1-	10,4		56	118	71	45	12	☺☺
	DC150-05-10.500D1-	10,5		56	118	71	45	12	☺☺
	DC150-05-10.600D1-	10,6		56	118	71	45	12	☺☺
	DC150-05-10.800D1-	10,8		56	118	71	45	12	☺☺
	DC150-05-11.000D1-	11		56	118	71	45	12	☺☺
	DC150-05-11.100D1-	11,1		56	118	71	45	12	☺☺
	DC150-05-11.200D1-	11,2		56	118	71	45	12	☺☺
	DC150-05-11.300D1-	11,3		56	118	71	45	12	☺☺
	DC150-05-11.500D1-	11,5		56	118	71	45	12	☺☺
	DC150-05-11.600D1-	11,6		56	118	71	45	12	☺☺
	DC150-05-11.700D1-	11,7		56	118	71	45	12	☺☺
	DC150-05-11.800D1-	11,8		56	118	71	45	12	☺☺
	DC150-05-11.900D1-	11,9		56	118	71	45	12	☺☺
	DC150-05-12.000D1-	12		56	118	71	45	12	☺☺
	DC150-05-12.100D1-	12,1		60	124	77	45	14	☺☺
	DC150-05-12.200D1-	12,2		60	124	77	45	14	☺☺
	DC150-05-12.300D1-	12,3		60	124	77	45	14	☺☺
	DC150-05-12.400D1-	12,4		60	124	77	45	14	☺☺
	DC150-05-12.500D1-	12,5		60	124	77	45	14	☺☺
	DC150-05-12.700D1-	12,7	1/2"	60	124	77	45	14	☺☺
	DC150-05-12.800D1-	12,8		60	124	77	45	14	☺☺
	DC150-05-13.000D1-	13		60	124	77	45	14	☺☺
	DC150-05-13.100D1-	13,1		60	124	77	45	14	☺☺
	DC150-05-13.200D1-	13,2		60	124	77	45	14	☺☺
	DC150-05-13.500D1-	13,5		60	124	77	45	14	☺☺
	DC150-05-13.800D1-	13,8		60	124	77	45	14	☺☺
	DC150-05-14.000D1-	14		60	124	77	45	14	☺☺
	DC150-05-14.100D1-	14,1		63	133	83	48	16	☺☺
	DC150-05-14.200D1-	14,2		63	133	83	48	16	☺☺

Ordering example for the WJ30RE grade: DC150-05-03.000D1-WJ30RE

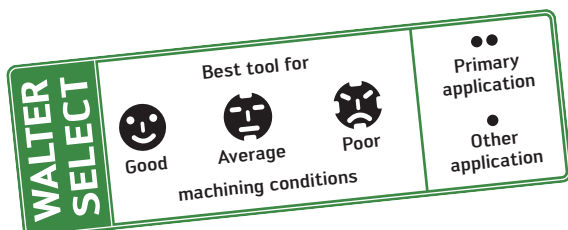
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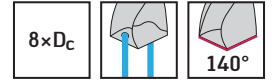
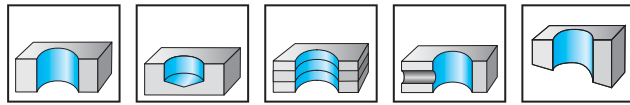
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	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB 	DC150-05-14.300D1-	14,3		63	133	83	48	16	
	DC150-05-14.500D1-	14,5		63	133	83	48	16	
	DC150-05-14.600D1-	14,6		63	133	83	48	16	
	DC150-05-14.800D1-	14,8		63	133	83	48	16	
	DC150-05-15.000D1-	15		63	133	83	48	16	
	DC150-05-15.100D1-	15,1		63	133	83	48	16	
	DC150-05-15.200D1-	15,2		63	133	83	48	16	
	DC150-05-15.300D1-	15,3		63	133	83	48	16	
	DC150-05-15.500D1-	15,5		63	133	83	48	16	
	DC150-05-15.600D1-	15,6		63	133	83	48	16	
	DC150-05-15.700D1-	15,7		63	133	83	48	16	
	DC150-05-15.800D1-	15,8		63	133	83	48	16	
	DC150-05-16.000D1-	16		63	133	83	48	16	
	DC150-05-16.500D1-	16,5		71	143	93	48	18	
	DC150-05-16.600D1-	16,6		71	143	93	48	18	
	DC150-05-17.000D1-	17		71	143	93	48	18	
	DC150-05-17.200D1-	17,2		71	143	93	48	18	
	DC150-05-17.300D1-	17,3		71	143	93	48	18	
	DC150-05-17.500D1-	17,5		71	143	93	48	18	
	DC150-05-17.700D1-	17,7		71	143	93	48	18	
DC150-05-17.800D1-	17,8		71	143	93	48	18		
DC150-05-18.000D1-	18		71	143	93	48	18		
DC150-05-18.100D1-	18,1		77	153	101	50	20		
DC150-05-18.500D1-	18,5		77	153	101	50	20		
DC150-05-18.800D1-	18,8		77	153	101	50	20		
DC150-05-19.000D1-	19		77	153	101	50	20		
DC150-05-19.500D1-	19,5		77	153	101	50	20		
DC150-05-19.700D1-	19,7		77	153	101	50	20		
DC150-05-20.000D1-	20		77	153	101	50	20		

Ordering example for the WJ30RE grade: DC150-05-03.000D1-WJ30RE



Solid carbide drills with coolant-through DC160 Advance



WJ30ET	P	M	K	N	S	H	O
	●	●	●	●	●	●	●

Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-08-03.000A1-	3		28	74	34	36	6	☺
DC160-08-03.100A1-	3,1		28	74	34	36	6	☺
DC160-08-03.175A1-	3,175	1/8"	28	74	34	36	6	☺
DC160-08-03.200A1-	3,2		28	74	34	36	6	☺
DC160-08-03.300A1-	3,3		28	74	34	36	6	☺
DC160-08-03.400A1-	3,4		28	74	34	36	6	☺
DC160-08-03.500A1-	3,5		28	74	34	36	6	☺
DC160-08-03.572A1-	3,572	9/64"	28	74	34	36	6	☺
DC160-08-03.600A1-	3,6		28	74	34	36	6	☺
DC160-08-03.700A1-	3,7		28	74	34	36	6	☺
DC160-08-03.800A1-	3,8		37	85	45	36	6	☺
DC160-08-03.900A1-	3,9		37	85	45	36	6	☺
DC160-08-03.969A1-	3,969	5/32"	37	85	45	36	6	☺
DC160-08-04.000A1-	4		37	85	45	36	6	☺
DC160-08-04.100A1-	4,1		37	85	45	36	6	☺
DC160-08-04.200A1-	4,2		37	85	45	36	6	☺
DC160-08-04.300A1-	4,3		37	85	45	36	6	☺
DC160-08-04.366A1-	4,366	11/64"	37	85	45	36	6	☺
DC160-08-04.400A1-	4,4		37	85	45	36	6	☺
DC160-08-04.500A1-	4,5		37	85	45	36	6	☺
DC160-08-04.600A1-	4,6		37	85	45	36	6	☺
DC160-08-04.700A1-	4,7		37	85	45	36	6	☺
DC160-08-04.763A1-	4,763	3/16"	48	97	57	36	6	☺
DC160-08-04.800A1-	4,8		48	97	57	36	6	☺
DC160-08-04.900A1-	4,9		48	97	57	36	6	☺
DC160-08-05.000A1-	5		48	97	57	36	6	☺
DC160-08-05.100A1-	5,1		48	97	57	36	6	☺
DC160-08-05.159A1-	5,159	13/64"	48	97	57	36	6	☺
DC160-08-05.200A1-	5,2		48	97	57	36	6	☺
DC160-08-05.300A1-	5,3		48	97	57	36	6	☺
DC160-08-05.400A1-	5,4		48	97	57	36	6	☺
DC160-08-05.500A1-	5,5		48	97	57	36	6	☺
DC160-08-05.556A1-	5,556	7/32"	48	97	57	36	6	☺
DC160-08-05.600A1-	5,6		48	97	57	36	6	☺
DC160-08-05.700A1-	5,7		48	97	57	36	6	☺
DC160-08-05.800A1-	5,8		48	97	57	36	6	☺
DC160-08-05.900A1-	5,9		48	97	57	36	6	☺
DC160-08-05.953A1-	5,953	15/64"	48	97	57	36	6	☺
DC160-08-06.000A1-	6		48	97	57	36	6	☺
DC160-08-06.100A1-	6,1		55	106	66	36	8	☺
DC160-08-06.200A1-	6,2		55	106	66	36	8	☺
DC160-08-06.300A1-	6,3		55	106	66	36	8	☺
DC160-08-06.350A1-	6,35	1/4"	55	106	66	36	8	☺
DC160-08-06.400A1-	6,4		55	106	66	36	8	☺
DC160-08-06.500A1-	6,5		55	106	66	36	8	☺
DC160-08-06.600A1-	6,6		55	106	66	36	8	☺
DC160-08-06.700A1-	6,7		55	106	66	36	8	☺

Ordering example for the WJ30ET grade: DC160-08-03.000A1-WJ30ET

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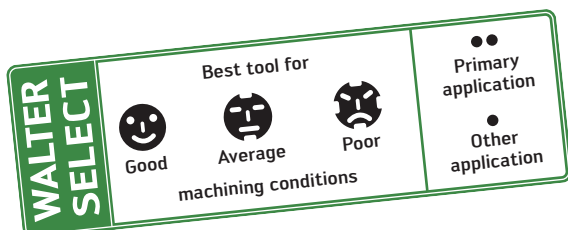
☺ / ★ New addition to the product range

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	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Shank DIN 6535 HA								
	DC160-08-06.747A1-	6,747	17/64"	55	106	66	36	8	☺☺
	DC160-08-06.800A1-	6,8		55	106	66	36	8	☺☺
	DC160-08-06.900A1-	6,9		55	106	66	36	8	☺☺
	DC160-08-07.000A1-	7		55	106	66	36	8	☺☺
	DC160-08-07.100A1-	7,1		64	116	76	36	8	☺☺
	DC160-08-07.144A1-	7,144	9/32"	64	116	76	36	8	☺☺
	DC160-08-07.200A1-	7,2		64	116	76	36	8	☺☺
	DC160-08-07.300A1-	7,3		64	116	76	36	8	☺☺
	DC160-08-07.400A1-	7,4		64	116	76	36	8	☺☺
	DC160-08-07.500A1-	7,5		64	116	76	36	8	☺☺
	DC160-08-07.541A1-	7,541	19/64"	64	116	76	36	8	☺☺
	DC160-08-07.600A1-	7,6		64	116	76	36	8	☺☺
	DC160-08-07.700A1-	7,7		64	116	76	36	8	☺☺
	DC160-08-07.800A1-	7,8		64	116	76	36	8	☺☺
	DC160-08-07.900A1-	7,9		64	116	76	36	8	☺☺
	DC160-08-07.938A1-	7,938	5/16"	64	116	76	36	8	☺☺
	DC160-08-08.000A1-	8		64	116	76	36	8	☺☺
	DC160-08-08.100A1-	8,1		80	139	95	40	10	☺☺
	DC160-08-08.200A1-	8,2		80	139	95	40	10	☺☺
	DC160-08-08.300A1-	8,3		80	139	95	40	10	☺☺
	DC160-08-08.334A1-	8,334	21/64"	80	139	95	40	10	☺☺
	DC160-08-08.400A1-	8,4		80	139	95	40	10	☺☺
	DC160-08-08.500A1-	8,5		80	139	95	40	10	☺☺
	DC160-08-08.600A1-	8,6		80	139	95	40	10	☺☺
	DC160-08-08.700A1-	8,7		80	139	95	40	10	☺☺
	DC160-08-08.731A1-	8,731	11/32"	80	139	95	40	10	☺☺
	DC160-08-08.800A1-	8,8		80	139	95	40	10	☺☺
	DC160-08-08.900A1-	8,9		80	139	95	40	10	☺☺
	DC160-08-09.000A1-	9		80	139	95	40	10	☺☺
	DC160-08-09.100A1-	9,1		80	139	95	40	10	☺☺
	DC160-08-09.128A1-	9,128	23/64"	80	139	95	40	10	☺☺
DC160-08-09.200A1-	9,2		80	139	95	40	10	☺☺	
DC160-08-09.300A1-	9,3		80	139	95	40	10	☺☺	
DC160-08-09.400A1-	9,4		80	139	95	40	10	☺☺	
DC160-08-09.500A1-	9,5		80	139	95	40	10	☺☺	
DC160-08-09.525A1-	9,525	3/8"	80	139	95	40	10	☺☺	
DC160-08-09.600A1-	9,6		80	139	95	40	10	☺☺	
DC160-08-09.700A1-	9,7		80	139	95	40	10	☺☺	
DC160-08-09.800A1-	9,8		80	139	95	40	10	☺☺	
DC160-08-09.900A1-	9,9		80	139	95	40	10	☺☺	
DC160-08-09.922A1-	9,922	25/64"	80	139	95	40	10	☺☺	
DC160-08-10.000A1-	10		80	139	95	40	10	☺☺	
DC160-08-10.100A1-	10,1		96	163	114	45	12	☺☺	
DC160-08-10.200A1-	10,2		96	163	114	45	12	☺☺	
DC160-08-10.300A1-	10,3		96	163	114	45	12	☺☺	
DC160-08-10.319A1-	10,319	13/32"	96	163	114	45	12	☺☺	
DC160-08-10.400A1-	10,4		96	163	114	45	12	☺☺	
DC160-08-10.500A1-	10,5		96	163	114	45	12	☺☺	
DC160-08-10.600A1-	10,6		96	163	114	45	12	☺☺	
DC160-08-10.700A1-	10,7		96	163	114	45	12	☺☺	
DC160-08-10.716A1-	10,716	27/64"	96	163	114	45	12	☺☺	
DC160-08-10.800A1-	10,8		96	163	114	45	12	☺☺	
DC160-08-10.900A1-	10,9		96	163	114	45	12	☺☺	
DC160-08-11.000A1-	11		96	163	114	45	12	☺☺	
DC160-08-11.100A1-	11,1		96	163	114	45	12	☺☺	
DC160-08-11.113A1-	11,113	7/16"	96	163	114	45	12	☺☺	
DC160-08-11.200A1-	11,2		96	163	114	45	12	☺☺	

Ordering example for the WJ30ET grade: DC160-08-03.000A1-WJ30ET

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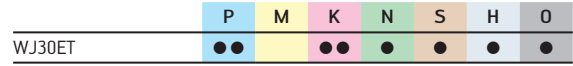
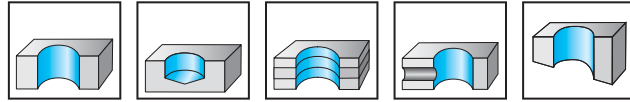
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	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Shank DIN 6535 HA								
	DC160-08-11.300A1-	11,3		96	163	114	45	12	
	DC160-08-11.400A1-	11,4		96	163	114	45	12	
	DC160-08-11.500A1-	11,5		96	163	114	45	12	
	DC160-08-11.509A1-	11,509	29/64"	96	163	114	45	12	
	DC160-08-11.600A1-	11,6		96	163	114	45	12	
	DC160-08-11.700A1-	11,7		96	163	114	45	12	
	DC160-08-11.800A1-	11,8		96	163	114	45	12	
	DC160-08-11.900A1-	11,9		96	163	114	45	12	
	DC160-08-11.906A1-	11,906	15/32"	96	163	114	45	12	
	DC160-08-12.000A1-	12		96	163	114	45	12	
	DC160-08-12.303A1-	12,303	31/64"	119	182	133	45	14	
	DC160-08-12.500A1-	12,5		119	182	133	45	14	
	DC160-08-12.700A1-	12,7	1/2"	119	182	133	45	14	
	DC160-08-13.000A1-	13		119	182	133	45	14	
	DC160-08-13.494A1-	13,494	17/32"	119	182	133	45	14	
	DC160-08-13.500A1-	13,5		119	182	133	45	14	
	DC160-08-14.000A1-	14		119	182	133	45	14	
	DC160-08-14.288A1-	14,288	9/16"	136	204	152	48	16	
	DC160-08-14.500A1-	14,5		136	204	152	48	16	
DC160-08-15.000A1-	15		136	204	152	48	16		
DC160-08-15.500A1-	15,5		136	204	152	48	16		
DC160-08-15.875A1-	15,875	5/8"	136	204	152	48	16		
DC160-08-16.000A1-	16		136	204	152	48	16		
DC160-08-16.500A1-	16,5		153	223	171	48	18		
DC160-08-17.000A1-	17		153	223	171	48	18		
DC160-08-17.500A1-	17,5		153	223	171	48	18		
DC160-08-18.000A1-	18		153	223	171	48	18		
DC160-08-18.500A1-	18,5		170	244	190	50	20		
DC160-08-19.000A1-	19		170	244	190	50	20		
DC160-08-19.050A1-	19,05	3/4"	170	244	190	50	20		
DC160-08-19.500A1-	19,5		170	244	190	50	20		
DC160-08-20.000A1-	20		170	244	190	50	20		

Ordering example for the WJ30ET grade: DC160-08-03.000A1-WJ30ET

Solid carbide twist drills

DC160 Advance



B1

Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA								
DC160-03-03.000A0-	3		14	62	20	36	6	☞
DC160-03-03.100A0-	3,1		14	62	20	36	6	☞
DC160-03-03.175A0-	3,175	1/8"	14	62	20	36	6	☞
DC160-03-03.200A0-	3,2		14	62	20	36	6	☞
DC160-03-03.250A0-	3,25		14	62	20	36	6	☞
DC160-03-03.300A0-	3,3		14	62	20	36	6	☞
DC160-03-03.400A0-	3,4		14	62	20	36	6	☞
DC160-03-03.500A0-	3,5		14	62	20	36	6	☞
DC160-03-03.572A0-	3,572	9/64"	14	62	20	36	6	☞
DC160-03-03.600A0-	3,6		14	62	20	36	6	☞
DC160-03-03.650A0-	3,65		14	62	20	36	6	☞
DC160-03-03.700A0-	3,7		14	62	20	36	6	☞
DC160-03-03.800A0-	3,8		17	66	24	36	6	☞
DC160-03-03.900A0-	3,9		17	66	24	36	6	☞
DC160-03-03.969A0-	3,969	5/32"	17	66	24	36	6	☞
DC160-03-04.000A0-	4		17	66	24	36	6	☞
DC160-03-04.100A0-	4,1		17	66	24	36	6	☞
DC160-03-04.200A0-	4,2		17	66	24	36	6	☞
DC160-03-04.300A0-	4,3		17	66	24	36	6	☞
DC160-03-04.366A0-	4,366	11/64"	17	66	24	36	6	☞
DC160-03-04.400A0-	4,4		17	66	24	36	6	☞
DC160-03-04.500A0-	4,5		17	66	24	36	6	☞
DC160-03-04.600A0-	4,6		17	66	24	36	6	☞
DC160-03-04.650A0-	4,65		17	66	24	36	6	☞
DC160-03-04.700A0-	4,7		17	66	24	36	6	☞
DC160-03-04.763A0-	4,763	3/16"	20	66	28	36	6	☞
DC160-03-04.800A0-	4,8		20	66	28	36	6	☞
DC160-03-04.900A0-	4,9		20	66	28	36	6	☞
DC160-03-05.000A0-	5		20	66	28	36	6	☞
DC160-03-05.100A0-	5,1		20	66	28	36	6	☞
DC160-03-05.159A0-	5,159	13/64"	20	66	28	36	6	☞
DC160-03-05.200A0-	5,2		20	66	28	36	6	☞
DC160-03-05.300A0-	5,3		20	66	28	36	6	☞
DC160-03-05.400A0-	5,4		20	66	28	36	6	☞
DC160-03-05.500A0-	5,5		20	66	28	36	6	☞
DC160-03-05.550A0-	5,55		20	66	28	36	6	☞
DC160-03-05.556A0-	5,556	7/32"	20	66	28	36	6	☞
DC160-03-05.600A0-	5,6		20	66	28	36	6	☞
DC160-03-05.700A0-	5,7		20	66	28	36	6	☞
DC160-03-05.800A0-	5,8		20	66	28	36	6	☞
DC160-03-05.900A0-	5,9		20	66	28	36	6	☞
DC160-03-05.953A0-	5,953	15/64"	20	66	28	36	6	☞
DC160-03-06.000A0-	6		20	66	28	36	6	☞
DC160-03-06.100A0-	6,1		24	79	34	36	8	☞
DC160-03-06.200A0-	6,2		24	79	34	36	8	☞
DC160-03-06.300A0-	6,3		24	79	34	36	8	☞
DC160-03-06.350A0-	6,35	1/4"	24	79	34	36	8	☞

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued

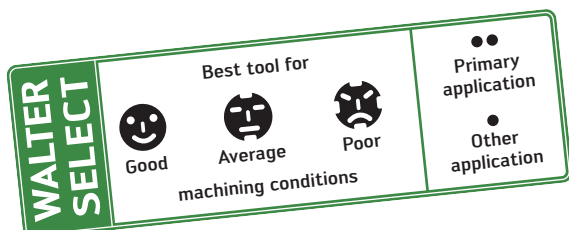
/ ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-03-06.400A0-	6,4		24	79	34	36	8	☹
	DC160-03-06.500A0-	6,5		24	79	34	36	8	☹
	DC160-03-06.600A0-	6,6		24	79	34	36	8	☹
	DC160-03-06.700A0-	6,7		24	79	34	36	8	☹
	DC160-03-06.747A0-	6,747	17/64"	24	79	34	36	8	☹
	DC160-03-06.800A0-	6,8		24	79	34	36	8	☹
	DC160-03-06.900A0-	6,9		24	79	34	36	8	☹
	DC160-03-07.000A0-	7		24	79	34	36	8	☹
	DC160-03-07.100A0-	7,1		29	79	41	36	8	☹
	DC160-03-07.144A0-	7,144	9/32"	29	79	41	36	8	☹
	DC160-03-07.200A0-	7,2		29	79	41	36	8	☹
	DC160-03-07.300A0-	7,3		29	79	41	36	8	☹
	DC160-03-07.400A0-	7,4		29	79	41	36	8	☹
	DC160-03-07.500A0-	7,5		29	79	41	36	8	☹
	DC160-03-07.541A0-	7,541	19/64"	29	79	41	36	8	☹
	DC160-03-07.550A0-	7,55		29	79	41	36	8	☹
	DC160-03-07.600A0-	7,6		29	79	41	36	8	☹
	DC160-03-07.700A0-	7,7		29	79	41	36	8	☹
	DC160-03-07.800A0-	7,8		29	79	41	36	8	☹
	DC160-03-07.900A0-	7,9		29	79	41	36	8	☹
	DC160-03-07.938A0-	7,938	5/16"	29	79	41	36	8	☹
	DC160-03-08.000A0-	8		29	79	41	36	8	☹
	DC160-03-08.100A0-	8,1		35	89	47	40	10	☹
	DC160-03-08.200A0-	8,2		35	89	47	40	10	☹
	DC160-03-08.300A0-	8,3		35	89	47	40	10	☹
	DC160-03-08.334A0-	8,334	21/64"	35	89	47	40	10	☹
	DC160-03-08.400A0-	8,4		35	89	47	40	10	☹
	DC160-03-08.500A0-	8,5		35	89	47	40	10	☹
	DC160-03-08.600A0-	8,6		35	89	47	40	10	☹
	DC160-03-08.700A0-	8,7		35	89	47	40	10	☹
	DC160-03-08.731A0-	8,731	11/32"	35	89	47	40	10	☹
	DC160-03-08.800A0-	8,8		35	89	47	40	10	☹
	DC160-03-08.900A0-	8,9		35	89	47	40	10	☹
	DC160-03-09.000A0-	9		35	89	47	40	10	☹
	DC160-03-09.100A0-	9,1		35	89	47	40	10	☹
	DC160-03-09.128A0-	9,128	23/64"	35	89	47	40	10	☹
	DC160-03-09.200A0-	9,2		35	89	47	40	10	☹
	DC160-03-09.300A0-	9,3		35	89	47	40	10	☹
	DC160-03-09.400A0-	9,4		35	89	47	40	10	☹
	DC160-03-09.500A0-	9,5		35	89	47	40	10	☹
DC160-03-09.525A0-	9,525	3/8"	35	89	47	40	10	☹	
DC160-03-09.550A0-	9,55		35	89	47	40	10	☹	
DC160-03-09.600A0-	9,6		35	89	47	40	10	☹	
DC160-03-09.700A0-	9,7		35	89	47	40	10	☹	
DC160-03-09.800A0-	9,8		35	89	47	40	10	☹	
DC160-03-09.900A0-	9,9		35	89	47	40	10	☹	
DC160-03-09.922A0-	9,922	25/64"	35	89	47	40	10	☹	
DC160-03-10.000A0-	10		35	89	47	40	10	☹	
DC160-03-10.100A0-	10,1		40	102	55	45	12	☹	
DC160-03-10.200A0-	10,2		40	102	55	45	12	☹	
DC160-03-10.300A0-	10,3		40	102	55	45	12	☹	
DC160-03-10.319A0-	10,319	13/32"	40	102	55	45	12	☹	
DC160-03-10.400A0-	10,4		40	102	55	45	12	☹	
DC160-03-10.500A0-	10,5		40	102	55	45	12	☹	
DC160-03-10.600A0-	10,6		40	102	55	45	12	☹	
DC160-03-10.700A0-	10,7		40	102	55	45	12	☹	
DC160-03-10.716A0-	10,716	27/64"	40	102	55	45	12	☹	

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued



B1

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-03-10.800A0-	10,8		40	102	55	45	12	☺☺☺
	DC160-03-10.900A0-	10,9		40	102	55	45	12	☺☺☺
	DC160-03-11.000A0-	11		40	102	55	45	12	☺☺☺
	DC160-03-11.100A0-	11,1		40	102	55	45	12	☺☺☺
	DC160-03-11.113A0-	11,113	7/16"	40	102	55	45	12	☺☺☺
	DC160-03-11.200A0-	11,2		40	102	55	45	12	☺☺☺
	DC160-03-11.300A0-	11,3		40	102	55	45	12	☺☺☺
	DC160-03-11.400A0-	11,4		40	102	55	45	12	☺☺☺
	DC160-03-11.500A0-	11,5		40	102	55	45	12	☺☺☺
	DC160-03-11.509A0-	11,509	29/64"	40	102	55	45	12	☺☺☺
	DC160-03-11.550A0-	11,55		40	102	55	45	12	☺☺☺
	DC160-03-11.600A0-	11,6		40	102	55	45	12	☺☺☺
	DC160-03-11.700A0-	11,7		40	102	55	45	12	☺☺☺
	DC160-03-11.800A0-	11,8		40	102	55	45	12	☺☺☺
	DC160-03-11.900A0-	11,9		40	102	55	45	12	☺☺☺
	DC160-03-11.906A0-	11,906	15/32"	40	102	55	45	12	☺☺☺
	DC160-03-12.000A0-	12		40	102	55	45	12	☺☺☺
	DC160-03-12.100A0-	12,1		43	107	60	45	14	☺☺☺
	DC160-03-12.200A0-	12,2		43	107	60	45	14	☺☺☺
	DC160-03-12.250A0-	12,25		43	107	60	45	14	☺☺☺
	DC160-03-12.300A0-	12,3		43	107	60	45	14	☺☺☺
	DC160-03-12.303A0-	12,303	31/64"	43	107	60	45	14	☺☺☺
	DC160-03-12.400A0-	12,4		43	107	60	45	14	☺☺☺
	DC160-03-12.500A0-	12,5		43	107	60	45	14	☺☺☺
	DC160-03-12.600A0-	12,6		43	107	60	45	14	☺☺☺
	DC160-03-12.700A0-	12,7	1/2"	43	107	60	45	14	☺☺☺
	DC160-03-12.750A0-	12,75		43	107	60	45	14	☺☺☺
	DC160-03-12.800A0-	12,8		43	107	60	45	14	☺☺☺
	DC160-03-12.900A0-	12,9		43	107	60	45	14	☺☺☺
	DC160-03-13.000A0-	13		43	107	60	45	14	☺☺☺
	DC160-03-13.100A0-	13,1		43	107	60	45	14	☺☺☺
	DC160-03-13.200A0-	13,2		43	107	60	45	14	☺☺☺
	DC160-03-13.300A0-	13,3		43	107	60	45	14	☺☺☺
	DC160-03-13.400A0-	13,4		43	107	60	45	14	☺☺☺
	DC160-03-13.494A0-	13,494	17/32"	43	107	60	45	14	☺☺☺
DC160-03-13.500A0-	13,5		43	107	60	45	14	☺☺☺	
DC160-03-13.600A0-	13,6		43	107	60	45	14	☺☺☺	
DC160-03-13.700A0-	13,7		43	107	60	45	14	☺☺☺	
DC160-03-13.800A0-	13,8		43	107	60	45	14	☺☺☺	
DC160-03-13.900A0-	13,9		43	107	60	45	14	☺☺☺	
DC160-03-14.000A0-	14		43	107	60	45	14	☺☺☺	
DC160-03-14.100A0-	14,1		45	115	65	48	16	☺☺☺	
DC160-03-14.200A0-	14,2		45	115	65	48	16	☺☺☺	
DC160-03-14.288A0-	14,288	9/16"	45	115	65	48	16	☺☺☺	
DC160-03-14.300A0-	14,3		45	115	65	48	16	☺☺☺	
DC160-03-14.400A0-	14,4		45	115	65	48	16	☺☺☺	
DC160-03-14.500A0-	14,5		45	115	65	48	16	☺☺☺	
DC160-03-14.600A0-	14,6		45	115	65	48	16	☺☺☺	
DC160-03-14.700A0-	14,7		45	115	65	48	16	☺☺☺	
DC160-03-14.750A0-	14,75		45	115	65	48	16	☺☺☺	
DC160-03-14.800A0-	14,8		45	115	65	48	16	☺☺☺	
DC160-03-15.000A0-	15		45	115	65	48	16	☺☺☺	
DC160-03-15.100A0-	15,1		45	115	65	48	16	☺☺☺	
DC160-03-15.200A0-	15,2		45	115	65	48	16	☺☺☺	
DC160-03-15.300A0-	15,3		45	115	65	48	16	☺☺☺	
DC160-03-15.500A0-	15,5		45	115	65	48	16	☺☺☺	
DC160-03-15.600A0-	15,6		45	115	65	48	16	☺☺☺	
DC160-03-15.700A0-	15,7		45	115	65	48	16	☺☺☺	
DC160-03-15.800A0-	15,8		45	115	65	48	16	☺☺☺	
DC160-03-15.875A0-	15,875	5/8"	45	115	65	48	16	☺☺☺	
DC160-03-15.900A0-	15,9		45	115	65	48	16	☺☺☺	

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued

/ ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
<p>Shank DIN 6535 HA</p>	DC160-03-16.000A0-	16		45	115	65	48	16	☺☺
	DC160-03-16.100A0-	16,1		51	123	73	48	18	☺☺
	DC160-03-16.200A0-	16,2		51	123	73	48	18	☺☺
	DC160-03-16.300A0-	16,3		51	123	73	48	18	☺☺
	DC160-03-16.400A0-	16,4		51	123	73	48	18	☺☺
	DC160-03-16.500A0-	16,5		51	123	73	48	18	☺☺
	DC160-03-16.600A0-	16,6		51	123	73	48	18	☺☺
	DC160-03-16.700A0-	16,7		51	123	73	48	18	☺☺
	DC160-03-16.750A0-	16,75		51	123	73	48	18	☺☺
	DC160-03-16.800A0-	16,8		51	123	73	48	18	☺☺
	DC160-03-17.000A0-	17		51	123	73	48	18	☺☺
	DC160-03-17.200A0-	17,2		51	123	73	48	18	☺☺
	DC160-03-17.300A0-	17,3		51	123	73	48	18	☺☺
	DC160-03-17.500A0-	17,5		51	123	73	48	18	☺☺
	DC160-03-17.600A0-	17,6		51	123	73	48	18	☺☺
	DC160-03-17.700A0-	17,7		51	123	73	48	18	☺☺
	DC160-03-17.800A0-	17,8		51	123	73	48	18	☺☺
	DC160-03-18.000A0-	18		51	123	73	48	18	☺☺
	DC160-03-18.200A0-	18,2		55	131	79	50	20	☺☺
	DC160-03-18.500A0-	18,5		55	131	79	50	20	☺☺
DC160-03-18.700A0-	18,7		55	131	79	50	20	☺☺	
DC160-03-18.800A0-	18,8		55	131	79	50	20	☺☺	
DC160-03-19.000A0-	19		55	131	79	50	20	☺☺	
DC160-03-19.050A0-	19,05	3/4"	55	131	79	50	20	☺☺	
DC160-03-19.500A0-	19,5		55	131	79	50	20	☺☺	
DC160-03-19.700A0-	19,7		55	131	79	50	20	☺☺	
DC160-03-19.800A0-	19,8		55	131	79	50	20	☺☺	
DC160-03-20.000A0-	20		55	131	79	50	20	☺☺	
<p>Shank DIN 6535 HE</p>	DC160-03-03.000F0-	3		14	62	20	36	6	☺☺
	DC160-03-03.100F0-	3,1		14	62	20	36	6	☺☺
	DC160-03-03.200F0-	3,2		14	62	20	36	6	☺☺
	DC160-03-03.250F0-	3,25		14	62	20	36	6	☺☺
	DC160-03-03.300F0-	3,3		14	62	20	36	6	☺☺
	DC160-03-03.400F0-	3,4		14	62	20	36	6	☺☺
	DC160-03-03.500F0-	3,5		14	62	20	36	6	☺☺
	DC160-03-03.600F0-	3,6		14	62	20	36	6	☺☺
	DC160-03-03.650F0-	3,65		14	62	20	36	6	☺☺
	DC160-03-03.700F0-	3,7		14	62	20	36	6	☺☺
	DC160-03-03.800F0-	3,8		17	66	24	36	6	☺☺
	DC160-03-03.900F0-	3,9		17	66	24	36	6	☺☺
	DC160-03-04.000F0-	4		17	66	24	36	6	☺☺
	DC160-03-04.100F0-	4,1		17	66	24	36	6	☺☺
	DC160-03-04.200F0-	4,2		17	66	24	36	6	☺☺
	DC160-03-04.300F0-	4,3		17	66	24	36	6	☺☺
	DC160-03-04.400F0-	4,4		17	66	24	36	6	☺☺
	DC160-03-04.500F0-	4,5		17	66	24	36	6	☺☺
	DC160-03-04.600F0-	4,6		17	66	24	36	6	☺☺
	DC160-03-04.650F0-	4,65		17	66	24	36	6	☺☺
	DC160-03-04.700F0-	4,7		17	66	24	36	6	☺☺
	DC160-03-04.800F0-	4,8		20	66	28	36	6	☺☺
	DC160-03-04.900F0-	4,9		20	66	28	36	6	☺☺
	DC160-03-05.000F0-	5		20	66	28	36	6	☺☺
	DC160-03-05.100F0-	5,1		20	66	28	36	6	☺☺
DC160-03-05.200F0-	5,2		20	66	28	36	6	☺☺	
DC160-03-05.300F0-	5,3		20	66	28	36	6	☺☺	
DC160-03-05.400F0-	5,4		20	66	28	36	6	☺☺	
DC160-03-05.500F0-	5,5		20	66	28	36	6	☺☺	

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹☹
Poor

machining conditions

•• Primary application

• Other application

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-03-05.550F0-	5,55		20	66	28	36	6	☺☺☺
	DC160-03-05.600F0-	5,6		20	66	28	36	6	☺☺☺
	DC160-03-05.700F0-	5,7		20	66	28	36	6	☺☺☺
	DC160-03-05.800F0-	5,8		20	66	28	36	6	☺☺☺
	DC160-03-05.900F0-	5,9		20	66	28	36	6	☺☺☺
	DC160-03-06.000F0-	6		20	66	28	36	6	☺☺☺
	DC160-03-06.100F0-	6,1		24	79	34	36	8	☺☺☺
	DC160-03-06.200F0-	6,2		24	79	34	36	8	☺☺☺
	DC160-03-06.300F0-	6,3		24	79	34	36	8	☺☺☺
	DC160-03-06.400F0-	6,4		24	79	34	36	8	☺☺☺
	DC160-03-06.500F0-	6,5		24	79	34	36	8	☺☺☺
	DC160-03-06.600F0-	6,6		24	79	34	36	8	☺☺☺
	DC160-03-06.700F0-	6,7		24	79	34	36	8	☺☺☺
	DC160-03-06.800F0-	6,8		24	79	34	36	8	☺☺☺
	DC160-03-06.900F0-	6,9		24	79	34	36	8	☺☺☺
	DC160-03-07.000F0-	7		24	79	34	36	8	☺☺☺
	DC160-03-07.100F0-	7,1		29	79	41	36	8	☺☺☺
	DC160-03-07.200F0-	7,2		29	79	41	36	8	☺☺☺
	DC160-03-07.300F0-	7,3		29	79	41	36	8	☺☺☺
	DC160-03-07.400F0-	7,4		29	79	41	36	8	☺☺☺
	DC160-03-07.500F0-	7,5		29	79	41	36	8	☺☺☺
	DC160-03-07.550F0-	7,55		29	79	41	36	8	☺☺☺
	DC160-03-07.600F0-	7,6		29	79	41	36	8	☺☺☺
	DC160-03-07.700F0-	7,7		29	79	41	36	8	☺☺☺
	DC160-03-07.800F0-	7,8		29	79	41	36	8	☺☺☺
	DC160-03-07.900F0-	7,9		29	79	41	36	8	☺☺☺
	DC160-03-08.000F0-	8		29	79	41	36	8	☺☺☺
	DC160-03-08.100F0-	8,1		35	89	47	40	10	☺☺☺
	DC160-03-08.200F0-	8,2		35	89	47	40	10	☺☺☺
	DC160-03-08.300F0-	8,3		35	89	47	40	10	☺☺☺
	DC160-03-08.400F0-	8,4		35	89	47	40	10	☺☺☺
	DC160-03-08.500F0-	8,5		35	89	47	40	10	☺☺☺
	DC160-03-08.600F0-	8,6		35	89	47	40	10	☺☺☺
	DC160-03-08.700F0-	8,7		35	89	47	40	10	☺☺☺
	DC160-03-08.800F0-	8,8		35	89	47	40	10	☺☺☺
DC160-03-08.900F0-	8,9		35	89	47	40	10	☺☺☺	
DC160-03-09.000F0-	9		35	89	47	40	10	☺☺☺	
DC160-03-09.100F0-	9,1		35	89	47	40	10	☺☺☺	
DC160-03-09.200F0-	9,2		35	89	47	40	10	☺☺☺	
DC160-03-09.300F0-	9,3		35	89	47	40	10	☺☺☺	
DC160-03-09.400F0-	9,4		35	89	47	40	10	☺☺☺	
DC160-03-09.500F0-	9,5		35	89	47	40	10	☺☺☺	
DC160-03-09.550F0-	9,55		35	89	47	40	10	☺☺☺	
DC160-03-09.600F0-	9,6		35	89	47	40	10	☺☺☺	
DC160-03-09.700F0-	9,7		35	89	47	40	10	☺☺☺	
DC160-03-09.800F0-	9,8		35	89	47	40	10	☺☺☺	
DC160-03-09.900F0-	9,9		35	89	47	40	10	☺☺☺	
DC160-03-10.000F0-	10		35	89	47	40	10	☺☺☺	
DC160-03-10.100F0-	10,1		40	102	55	45	12	☺☺☺	
DC160-03-10.200F0-	10,2		40	102	55	45	12	☺☺☺	
DC160-03-10.300F0-	10,3		40	102	55	45	12	☺☺☺	
DC160-03-10.400F0-	10,4		40	102	55	45	12	☺☺☺	
DC160-03-10.500F0-	10,5		40	102	55	45	12	☺☺☺	
DC160-03-10.600F0-	10,6		40	102	55	45	12	☺☺☺	
DC160-03-10.700F0-	10,7		40	102	55	45	12	☺☺☺	
DC160-03-10.800F0-	10,8		40	102	55	45	12	☺☺☺	
DC160-03-10.900F0-	10,9		40	102	55	45	12	☺☺☺	
DC160-03-11.000F0-	11		40	102	55	45	12	☺☺☺	
DC160-03-11.100F0-	11,1		40	102	55	45	12	☺☺☺	
DC160-03-11.200F0-	11,2		40	102	55	45	12	☺☺☺	
DC160-03-11.300F0-	11,3		40	102	55	45	12	☺☺☺	

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

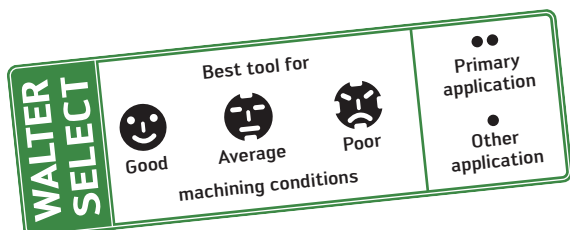
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	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-03-11.400FO-	11,4		40	102	55	45	12	
	DC160-03-11.500FO-	11,5		40	102	55	45	12	
	DC160-03-11.550FO-	11,55		40	102	55	45	12	
	DC160-03-11.600FO-	11,6		40	102	55	45	12	
	DC160-03-11.700FO-	11,7		40	102	55	45	12	
	DC160-03-11.800FO-	11,8		40	102	55	45	12	
	DC160-03-11.900FO-	11,9		40	102	55	45	12	
	DC160-03-12.000FO-	12		40	102	55	45	12	
	DC160-03-12.100FO-	12,1		43	107	60	45	14	
	DC160-03-12.200FO-	12,2		43	107	60	45	14	
	DC160-03-12.250FO-	12,25		43	107	60	45	14	
	DC160-03-12.300FO-	12,3		43	107	60	45	14	
	DC160-03-12.400FO-	12,4		43	107	60	45	14	
	DC160-03-12.500FO-	12,5		43	107	60	45	14	
	DC160-03-12.600FO-	12,6		43	107	60	45	14	
	DC160-03-12.700FO-	12,7	1/2"	43	107	60	45	14	
	DC160-03-12.750FO-	12,75		43	107	60	45	14	
	DC160-03-12.800FO-	12,8		43	107	60	45	14	
	DC160-03-12.900FO-	12,9		43	107	60	45	14	
	DC160-03-13.000FO-	13		43	107	60	45	14	
	DC160-03-13.100FO-	13,1		43	107	60	45	14	
	DC160-03-13.200FO-	13,2		43	107	60	45	14	
	DC160-03-13.300FO-	13,3		43	107	60	45	14	
	DC160-03-13.400FO-	13,4		43	107	60	45	14	
	DC160-03-13.500FO-	13,5		43	107	60	45	14	
	DC160-03-13.600FO-	13,6		43	107	60	45	14	
	DC160-03-13.700FO-	13,7		43	107	60	45	14	
	DC160-03-13.800FO-	13,8		43	107	60	45	14	
	DC160-03-13.900FO-	13,9		43	107	60	45	14	
	DC160-03-14.000FO-	14		43	107	60	45	14	
	DC160-03-14.100FO-	14,1		45	115	65	48	16	
	DC160-03-14.200FO-	14,2		45	115	65	48	16	
	DC160-03-14.300FO-	14,3		45	115	65	48	16	
	DC160-03-14.400FO-	14,4		45	115	65	48	16	
	DC160-03-14.500FO-	14,5		45	115	65	48	16	
	DC160-03-14.600FO-	14,6		45	115	65	48	16	
DC160-03-14.700FO-	14,7		45	115	65	48	16		
DC160-03-14.750FO-	14,75		45	115	65	48	16		
DC160-03-14.800FO-	14,8		45	115	65	48	16		
DC160-03-15.000FO-	15		45	115	65	48	16		
DC160-03-15.100FO-	15,1		45	115	65	48	16		
DC160-03-15.200FO-	15,2		45	115	65	48	16		
DC160-03-15.300FO-	15,3		45	115	65	48	16		
DC160-03-15.500FO-	15,5		45	115	65	48	16		
DC160-03-15.600FO-	15,6		45	115	65	48	16		
DC160-03-15.700FO-	15,7		45	115	65	48	16		
DC160-03-15.800FO-	15,8		45	115	65	48	16		
DC160-03-15.900FO-	15,9		45	115	65	48	16		
DC160-03-16.000FO-	16		45	115	65	48	16		
DC160-03-16.100FO-	16,1		51	123	73	48	18		
DC160-03-16.200FO-	16,2		51	123	73	48	18		
DC160-03-16.300FO-	16,3		51	123	73	48	18		
DC160-03-16.400FO-	16,4		51	123	73	48	18		
DC160-03-16.500FO-	16,5		51	123	73	48	18		
DC160-03-16.600FO-	16,6		51	123	73	48	18		
DC160-03-16.700FO-	16,7		51	123	73	48	18		
DC160-03-16.750FO-	16,75		51	123	73	48	18		

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

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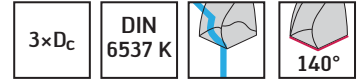
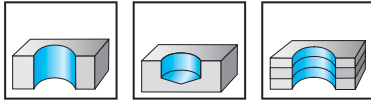
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	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Shank DIN 6535 HE								
	DC160-03-16.800F0-	16,8		51	123	73	48	18	☺☺
	DC160-03-17.000F0-	17		51	123	73	48	18	☺☺
	DC160-03-17.200F0-	17,2		51	123	73	48	18	☺☺
	DC160-03-17.300F0-	17,3		51	123	73	48	18	☺☺
	DC160-03-17.500F0-	17,5		51	123	73	48	18	☺☺
	DC160-03-17.600F0-	17,6		51	123	73	48	18	☺☺
	DC160-03-17.700F0-	17,7		51	123	73	48	18	☺☺
	DC160-03-17.800F0-	17,8		51	123	73	48	18	☺☺
	DC160-03-18.000F0-	18		51	123	73	48	18	☺☺
	DC160-03-18.200F0-	18,2		55	131	79	50	20	☺☺
	DC160-03-18.500F0-	18,5		55	131	79	50	20	☺☺
	DC160-03-18.700F0-	18,7		55	131	79	50	20	☺☺
	DC160-03-18.800F0-	18,8		55	131	79	50	20	☺☺
	DC160-03-19.000F0-	19		55	131	79	50	20	☺☺
	DC160-03-19.500F0-	19,5		55	131	79	50	20	☺☺
	DC160-03-19.700F0-	19,7		55	131	79	50	20	☺☺
DC160-03-19.800F0-	19,8		55	131	79	50	20	☺☺	
DC160-03-20.000F0-	20		55	131	79	50	20	☺☺	

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Solid carbide twist drills

DC150 Perform

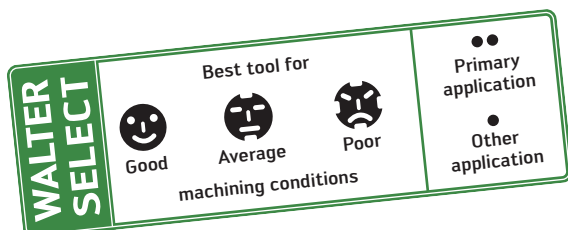


P	M	K	N	S	H	O
●	●	●	●	●	●	●

Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DC150-03-03.000D0-	3		14	62	20	36	6	●
DC150-03-03.100D0-	3,1		14	62	20	36	6	●
DC150-03-03.200D0-	3,2		14	62	20	36	6	●
DC150-03-03.300D0-	3,3		14	62	20	36	6	●
DC150-03-03.400D0-	3,4		14	62	20	36	6	●
DC150-03-03.500D0-	3,5		14	62	20	36	6	●
DC150-03-03.600D0-	3,6		14	62	20	36	6	●
DC150-03-03.700D0-	3,7		14	62	20	36	6	●
DC150-03-03.800D0-	3,8		17	66	24	36	6	●
DC150-03-03.900D0-	3,9		17	66	24	36	6	●
DC150-03-04.000D0-	4		17	66	24	36	6	●
DC150-03-04.200D0-	4,2		17	66	24	36	6	●
DC150-03-04.300D0-	4,3		17	66	24	36	6	●
DC150-03-04.500D0-	4,5		17	66	24	36	6	●
DC150-03-04.650D0-	4,65		17	66	24	36	6	●
DC150-03-04.700D0-	4,7		17	66	24	36	6	●
DC150-03-04.800D0-	4,8		20	66	28	36	6	●
DC150-03-05.000D0-	5		20	66	28	36	6	●
DC150-03-05.100D0-	5,1		20	66	28	36	6	●
DC150-03-05.300D0-	5,3		20	66	28	36	6	●
DC150-03-05.500D0-	5,5		20	66	28	36	6	●
DC150-03-05.550D0-	5,55		20	66	28	36	6	●
DC150-03-05.600D0-	5,6		20	66	28	36	6	●
DC150-03-05.800D0-	5,8		20	66	28	36	6	●
DC150-03-06.000D0-	6		20	66	28	36	6	●
DC150-03-06.100D0-	6,1		24	79	34	36	8	●
DC150-03-06.200D0-	6,2		24	79	34	36	8	●
DC150-03-06.300D0-	6,3		24	79	34	36	8	●
DC150-03-06.500D0-	6,5		24	79	34	36	8	●
DC150-03-06.600D0-	6,6		24	79	34	36	8	●
DC150-03-06.700D0-	6,7		24	79	34	36	8	●
DC150-03-06.800D0-	6,8		24	79	34	36	8	●
DC150-03-07.000D0-	7		24	79	34	36	8	●
DC150-03-07.100D0-	7,1		29	79	41	36	8	●
DC150-03-07.400D0-	7,4		29	79	41	36	8	●
DC150-03-07.500D0-	7,5		29	79	41	36	8	●
DC150-03-07.600D0-	7,6		29	79	41	36	8	●
DC150-03-07.800D0-	7,8		29	79	41	36	8	●
DC150-03-08.000D0-	8		29	79	41	36	8	●
DC150-03-08.100D0-	8,1		35	89	47	40	10	●
DC150-03-08.200D0-	8,2		35	89	47	40	10	●
DC150-03-08.300D0-	8,3		35	89	47	40	10	●
DC150-03-08.400D0-	8,4		35	89	47	40	10	●

Ordering example for the WJ30RE grade: DC150-03-03.000D0-WJ30RE

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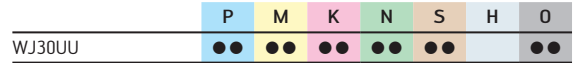
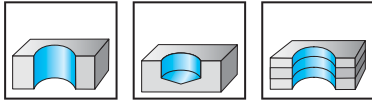
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	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB 	DC150-03-08.500D0-	8,5		35	89	47	40	10	☺
	DC150-03-08.600D0-	8,6		35	89	47	40	10	☺
	DC150-03-08.700D0-	8,7		35	89	47	40	10	☺
	DC150-03-08.800D0-	8,8		35	89	47	40	10	☺
	DC150-03-09.000D0-	9		35	89	47	40	10	☺
	DC150-03-09.100D0-	9,1		35	89	47	40	10	☺
	DC150-03-09.500D0-	9,5		35	89	47	40	10	☺
	DC150-03-09.700D0-	9,5		35	89	47	40	10	☺
	DC150-03-09.800D0-	9,8		35	89	47	40	10	☺
	DC150-03-10.000D0-	10		35	89	47	40	10	☺
	DC150-03-10.100D0-	10,1		40	102	55	45	12	☺
	DC150-03-10.200D0-	10,2		40	102	55	45	12	☺
	DC150-03-10.300D0-	10,3		40	102	55	45	12	☺
	DC150-03-10.400D0-	10,4		40	102	55	45	12	☺
	DC150-03-10.500D0-	10,5		40	102	55	45	12	☺
	DC150-03-10.600D0-	10,6		40	102	55	45	12	☺
	DC150-03-10.800D0-	10,8		40	102	55	45	12	☺
	DC150-03-10.900D0-	10,9		40	102	55	45	12	☺
	DC150-03-11.000D0-	11		40	102	55	45	12	☺
	DC150-03-11.100D0-	11,1		40	102	55	45	12	☺
DC150-03-11.200D0-	11,2		40	102	55	45	12	☺	
DC150-03-11.300D0-	11,3		40	102	55	45	12	☺	
DC150-03-11.500D0-	11,5		40	102	55	45	12	☺	
DC150-03-11.600D0-	11,6		40	102	55	45	12	☺	
DC150-03-11.800D0-	11,8		40	102	55	45	12	☺	
DC150-03-12.000D0-	12		40	102	55	45	12	☺	
DC150-03-12.200D0-	12,2		43	107	60	45	14	☺	
DC150-03-12.300D0-	12,3		43	107	60	45	14	☺	
DC150-03-12.500D0-	12,5		43	107	60	45	14	☺	
DC150-03-13.000D0-	13		43	107	60	45	14	☺	
DC150-03-13.200D0-	13,2		43	107	60	45	14	☺	
DC150-03-13.300D0-	13,3		43	107	60	45	14	☺	
DC150-03-13.400D0-	13,4		43	107	60	45	14	☺	
DC150-03-13.500D0-	13,5		43	107	60	45	14	☺	
DC150-03-13.600D0-	13,6		43	107	60	45	14	☺	
DC150-03-13.800D0-	13,8		43	107	60	45	14	☺	
DC150-03-14.000D0-	14		43	107	60	45	14	☺	
DC150-03-14.500D0-	14,5		45	115	65	48	16	☺	
DC150-03-15.000D0-	15		45	115	65	48	16	☺	
DC150-03-15.100D0-	15,1		45	115	65	48	16	☺	
DC150-03-16.000D0-	16		45	115	65	48	16	☺	
DC150-03-16.500D0-	16,5		51	123	73	48	18	☺	
DC150-03-17.000D0-	17		51	123	73	48	18	☺	
DC150-03-17.500D0-	17,5		51	123	73	48	18	☺	
DC150-03-18.000D0-	18		51	123	73	48	18	☺	
DC150-03-18.500D0-	18,5		55	131	79	50	20	☺	
DC150-03-19.000D0-	19		55	131	79	50	20	☺	
DC150-03-20.000D0-	20		55	131	79	50	20	☺	

Ordering example for the WJ30RE grade: DC150-03-03.000D0-WJ30RE

Solid carbide micro twist drills DB130 Advance



	Designation	D _c 0-0,004 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ h8 mm	WJ30UU
Parallel shank	DB130-05-00.100U0-	0,1	0,3	25	0,5	1	●●
	DB130-05-00.110U0-	0,11	0,3	25	0,5	1	●●
	DB130-05-00.120U0-	0,12	0,3	25	0,5	1	●●
	DB130-05-00.130U0-	0,13	0,5	25	0,8	1	●●
	DB130-05-00.140U0-	0,14	0,5	25	0,8	1	●●
	DB130-05-00.150U0-	0,15	0,5	25	0,8	1	●●
	DB130-05-00.160U0-	0,16	0,8	25	1,1	1	●●
	DB130-05-00.170U0-	0,17	0,8	25	1,1	1	●●
	DB130-05-00.180U0-	0,18	0,8	25	1,1	1	●●
	DB130-05-00.190U0-	0,19	0,8	25	1,1	1	●●
	DB130-05-00.200U0-	0,2	1,1	25	1,5	1	●●
	DB130-05-00.210U0-	0,21	1,1	25	1,5	1	●●
	DB130-05-00.220U0-	0,22	1,1	25	1,5	1	●●
	DB130-05-00.230U0-	0,23	1,1	25	1,5	1	●●
	DB130-05-00.240U0-	0,24	1,1	25	1,5	1	●●
	DB130-05-00.250U0-	0,25	1,4	25	1,9	1	●●
	DB130-05-00.260U0-	0,26	1,4	25	1,9	1	●●
	DB130-05-00.270U0-	0,27	1,4	25	1,9	1	●●
	DB130-05-00.280U0-	0,28	1,4	25	1,9	1	●●
	DB130-05-00.290U0-	0,29	1,4	25	1,9	1	●●
	DB130-05-00.300U0-	0,3	1,4	25	1,9	1	●●
	DB130-05-00.310U0-	0,31	1,8	25	2,4	1	●●
	DB130-05-00.320U0-	0,32	1,8	25	2,4	1	●●
	DB130-05-00.330U0-	0,33	1,8	25	2,4	1	●●
	DB130-05-00.340U0-	0,34	1,8	25	2,4	1	●●
	DB130-05-00.350U0-	0,35	1,8	25	2,4	1	●●
	DB130-05-00.360U0-	0,36	1,8	25	2,4	1	●●
	DB130-05-00.370U0-	0,37	1,8	25	2,4	1	●●
	DB130-05-00.380U0-	0,38	1,8	25	2,4	1	●●
	DB130-05-00.390U0-	0,39	2,2	25	3	1	●●
	DB130-05-00.400U0-	0,4	2,2	25	3	1	●●
	DB130-05-00.410U0-	0,41	2,2	25	3	1	●●
DB130-05-00.420U0-	0,42	2,2	25	3	1	●●	
DB130-05-00.430U0-	0,43	2,2	25	3	1	●●	
DB130-05-00.440U0-	0,44	2,2	25	3	1	●●	
DB130-05-00.450U0-	0,45	2,2	25	3	1	●●	
DB130-05-00.460U0-	0,46	2,2	25	3	1	●●	
DB130-05-00.470U0-	0,47	2,2	25	3	1	●●	
DB130-05-00.480U0-	0,48	2,2	25	3	1	●●	
DB130-05-00.490U0-	0,49	2,6	25	3,4	1	●●	
DB130-05-00.500U0-	0,5	2,6	25	3,4	1	●●	
DB130-05-00.510U0-	0,51	2,6	25	3,4	1	●●	
DB130-05-00.520U0-	0,52	2,6	25	3,4	1	●●	

Ordering example for the WJ30UU grade: DB130-05-00.100U0-WJ30UU

Continued

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

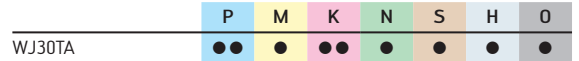
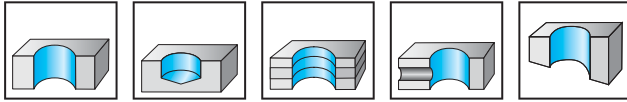
Continued

		D_c 0-0,004 mm	L_c mm	l_1 mm	l_2 mm	d_1 h8 mm	WJ30UU
Parallel shank 	DB130-05-00.530U0-	0,53	2,6	25	3,4	1	
	DB130-05-00.540U0-	0,54	3	25	3,9	1	
	DB130-05-00.550U0-	0,55	3	25	3,9	1	
	DB130-05-00.560U0-	0,56	3	25	3,9	1	
	DB130-05-00.570U0-	0,57	3	25	3,9	1	
	DB130-05-00.580U0-	0,58	3	25	3,9	1	
	DB130-05-00.590U0-	0,59	3	25	3,9	1	
	DB130-05-00.600U0-	0,6	3	25	3,9	1	
	DB130-05-00.610U0-	0,61	3,1	25	4,2	1	
	DB130-05-00.620U0-	0,62	3,1	25	4,2	1	
	DB130-05-00.630U0-	0,63	3,1	25	4,2	1	
	DB130-05-00.640U0-	0,64	3,1	25	4,2	1	
	DB130-05-00.650U0-	0,65	3,1	25	4,2	1	
	DB130-05-00.660U0-	0,66	3,1	25	4,2	1	
	DB130-05-00.670U0-	0,67	3,1	25	4,2	1	
	DB130-05-00.680U0-	0,68	3,6	25	4,8	1	
	DB130-05-00.690U0-	0,69	3,6	25	4,8	1	
	DB130-05-00.700U0-	0,7	3,6	25	4,8	1	
	DB130-05-00.710U0-	0,71	3,6	25	4,8	1	
	DB130-05-00.720U0-	0,72	3,6	25	4,8	1	
	DB130-05-00.730U0-	0,73	3,6	25	4,8	1	
	DB130-05-00.740U0-	0,74	3,6	25	4,8	1	
	DB130-05-00.750U0-	0,75	3,6	25	4,8	1	
	DB130-05-00.760U0-	0,76	4,1	25	5,3	1	
	DB130-05-00.770U0-	0,77	4,1	25	5,3	1	
	DB130-05-00.780U0-	0,78	4,1	25	5,3	1	
	DB130-05-00.790U0-	0,79	4,1	25	5,3	1	
	DB130-05-00.800U0-	0,8	4	25	5,3	1,5	
	DB130-05-00.810U0-	0,81	4	25	5,3	1,5	
	DB130-05-00.820U0-	0,82	4	25	5,3	1,5	
	DB130-05-00.830U0-	0,83	4	25	5,3	1,5	
	DB130-05-00.840U0-	0,84	4	25	5,3	1,5	
DB130-05-00.850U0-	0,85	4	25	5,3	1,5		
DB130-05-00.860U0-	0,86	4,5	25	6	1,5		
DB130-05-00.870U0-	0,87	4,5	25	6	1,5		
DB130-05-00.880U0-	0,88	4,5	25	6	1,5		
DB130-05-00.890U0-	0,89	4,5	25	6	1,5		
DB130-05-00.900U0-	0,9	4,5	25	6	1,5		
DB130-05-00.910U0-	0,91	4,5	25	6	1,5		
DB130-05-00.920U0-	0,92	4,5	25	6	1,5		
DB130-05-00.930U0-	0,93	4,5	25	6	1,5		
DB130-05-00.940U0-	0,94	4,5	25	6	1,5		
DB130-05-00.950U0-	0,95	4,5	25	6	1,5		
DB130-05-00.960U0-	0,96	5	25	6,8	1,5		
DB130-05-00.970U0-	0,97	5	25	6,8	1,5		
DB130-05-00.980U0-	0,98	5	25	6,8	1,5		
DB130-05-00.990U0-	0,99	5	25	6,8	1,5		
DB130-05-01.000U0-	1	5	25	6,8	1,5		
DB130-05-01.050U0-	1,05	5	25	6,8	1,5		
DB130-05-01.100U0-	1,1	5	25	7,6	1,5		
DB130-05-01.150U0-	1,15	5	25	7,6	1,5		
DB130-05-01.200U0-	1,2	6	25	8,5	1,5		
DB130-05-01.250U0-	1,25	6	25	8,5	1,5		
DB130-05-01.300U0-	1,3	6	25	8,5	1,5		
DB130-05-01.350U0-	1,35	7	25	9,5	1,5		
DB130-05-01.400U0-	1,4	7	25	9,5	1,5		
DB130-05-01.450U0-	1,45	7	25	9,5	1,5		

Ordering example for the WJ30UU grade: DB130-05-00.100U0-WJ30UU

Solid carbide twist drills

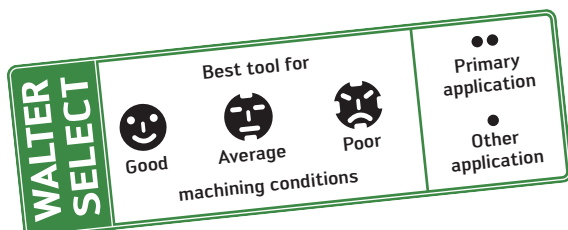
DC150 Perform



	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
Shank DIN 6535 HA 	DC150-05-03.000A0-	3		23	66	28	36	6	
	DC150-05-03.100A0-	3,1		23	66	28	36	6	
	DC150-05-03.175A0-	3,175	1/8"	23	66	28	36	6	
	DC150-05-03.200A0-	3,2		23	66	28	36	6	
	DC150-05-03.250A0-	3,25		23	66	28	36	6	
	DC150-05-03.300A0-	3,3		23	66	28	36	6	
	DC150-05-03.400A0-	3,4		23	66	28	36	6	
	DC150-05-03.500A0-	3,5		23	66	28	36	6	
	DC150-05-03.600A0-	3,6		23	66	28	36	6	
	DC150-05-03.650A0-	3,65		23	66	28	36	6	
	DC150-05-03.700A0-	3,7		23	66	28	36	6	
	DC150-05-03.800A0-	3,8		29	74	36	36	6	
	DC150-05-03.900A0-	3,9		29	74	36	36	6	
	DC150-05-03.969A0-	3,969	5/32"	29	74	36	36	6	
	DC150-05-04.000A0-	4		29	74	36	36	6	
	DC150-05-04.100A0-	4,1		29	74	36	36	6	
	DC150-05-04.200A0-	4,2		29	74	36	36	6	
	DC150-05-04.300A0-	4,3		29	74	36	36	6	
	DC150-05-04.366A0-	4,366	11/64"	29	74	36	36	6	
	DC150-05-04.400A0-	4,4		29	74	36	36	6	
	DC150-05-04.500A0-	4,5		29	74	36	36	6	
	DC150-05-04.600A0-	4,6		29	74	36	36	6	
	DC150-05-04.650A0-	4,65		29	74	36	36	6	
	DC150-05-04.700A0-	4,7		29	74	36	36	6	
	DC150-05-04.763A0-	4,763	3/16"	35	82	44	36	6	
	DC150-05-04.800A0-	4,8		35	82	44	36	6	
	DC150-05-04.900A0-	4,9		35	82	44	36	6	
	DC150-05-05.000A0-	5		35	82	44	36	6	
	DC150-05-05.100A0-	5,1		35	82	44	36	6	
	DC150-05-05.159A0-	5,159	13/64"	35	82	44	36	6	
	DC150-05-05.200A0-	5,2		35	82	44	36	6	
	DC150-05-05.300A0-	5,3		35	82	44	36	6	
	DC150-05-05.400A0-	5,4		35	82	44	36	6	
	DC150-05-05.500A0-	5,5		35	82	44	36	6	
	DC150-05-05.550A0-	5,55		35	82	44	36	6	
DC150-05-05.556A0-	5,556	7/32"	35	82	44	36	6		
DC150-05-05.600A0-	5,6		35	82	44	36	6		
DC150-05-05.700A0-	5,7		35	82	44	36	6		
DC150-05-05.800A0-	5,8		35	82	44	36	6		
DC150-05-05.900A0-	5,9		35	82	44	36	6		
DC150-05-05.953A0-	5,953	15/64"	35	82	44	36	6		
DC150-05-06.000A0-	6		35	82	44	36	6		
DC150-05-06.100A0-	6,1		43	91	53	36	8		

Ordering example for the WJ30TA grade: DC150-05-03.000A0-WJ30TA

Continued



B1

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
	DC150-05-06.200A0-	6,2		43	91	53	36	8	☺☺☺
	DC150-05-06.300A0-	6,3		43	91	53	36	8	☺☺☺
	DC150-05-06.350A0-	6,35	1/4"	43	91	53	36	8	☺☺☺
	DC150-05-06.400A0-	6,4		43	91	53	36	8	☺☺☺
	DC150-05-06.500A0-	6,5		43	91	53	36	8	☺☺☺
	DC150-05-06.600A0-	6,6		43	91	53	36	8	☺☺☺
	DC150-05-06.700A0-	6,7		43	91	53	36	8	☺☺☺
	DC150-05-06.747A0-	6,747	17/64"	43	91	53	36	8	☺☺☺
	DC150-05-06.800A0-	6,8		43	91	53	36	8	☺☺☺
	DC150-05-06.900A0-	6,9		43	91	53	36	8	☺☺☺
	DC150-05-07.000A0-	7		43	91	53	36	8	☺☺☺
	DC150-05-07.100A0-	7,1		43	91	53	36	8	☺☺☺
	DC150-05-07.144A0-	7,144	9/32"	43	91	53	36	8	☺☺☺
	DC150-05-07.200A0-	7,2		43	91	53	36	8	☺☺☺
	DC150-05-07.300A0-	7,3		43	91	53	36	8	☺☺☺
	DC150-05-07.400A0-	7,4		43	91	53	36	8	☺☺☺
	DC150-05-07.500A0-	7,5		43	91	53	36	8	☺☺☺
	DC150-05-07.600A0-	7,6		43	91	53	36	8	☺☺☺
	DC150-05-07.700A0-	7,7		43	91	53	36	8	☺☺☺
	DC150-05-07.800A0-	7,8		43	91	53	36	8	☺☺☺
	DC150-05-07.900A0-	7,9		43	91	53	36	8	☺☺☺
	DC150-05-07.938A0-	7,938	5/16"	43	91	53	36	8	☺☺☺
	DC150-05-08.000A0-	8		43	91	53	36	8	☺☺☺
	DC150-05-08.100A0-	8,1		49	103	61	40	10	☺☺☺
	DC150-05-08.200A0-	8,2		49	103	61	40	10	☺☺☺
	DC150-05-08.300A0-	8,3		49	103	61	40	10	☺☺☺
	DC150-05-08.334A0-	8,334	21/64"	49	103	61	40	10	☺☺☺
	DC150-05-08.400A0-	8,4		49	103	61	40	10	☺☺☺
	DC150-05-08.500A0-	8,5		49	103	61	40	10	☺☺☺
	DC150-05-08.600A0-	8,6		49	103	61	40	10	☺☺☺
	DC150-05-08.700A0-	8,7		49	103	61	40	10	☺☺☺
	DC150-05-08.731A0-	8,731	11/32"	49	103	61	40	10	☺☺☺
	DC150-05-08.800A0-	8,8		49	103	61	40	10	☺☺☺
	DC150-05-08.900A0-	8,9		49	103	61	40	10	☺☺☺
	DC150-05-09.000A0-	9		49	103	61	40	10	☺☺☺
	DC150-05-09.100A0-	9,1		49	103	61	40	10	☺☺☺
DC150-05-09.128A0-	9,128	23/64"	49	103	61	40	10	☺☺☺	
DC150-05-09.200A0-	9,2		49	103	61	40	10	☺☺☺	
DC150-05-09.300A0-	9,3		49	103	61	40	10	☺☺☺	
DC150-05-09.400A0-	9,4		49	103	61	40	10	☺☺☺	
DC150-05-09.500A0-	9,5		49	103	61	40	10	☺☺☺	
DC150-05-09.525A0-	9,525	3/8"	49	103	61	40	10	☺☺☺	
DC150-05-09.600A0-	9,6		49	103	61	40	10	☺☺☺	
DC150-05-09.700A0-	9,7		49	103	61	40	10	☺☺☺	
DC150-05-09.800A0-	9,8		49	103	61	40	10	☺☺☺	
DC150-05-09.900A0-	9,9		49	103	61	40	10	☺☺☺	
DC150-05-09.922A0-	9,922	25/64"	49	103	61	40	10	☺☺☺	
DC150-05-10.000A0-	10		49	103	61	40	10	☺☺☺	
DC150-05-10.100A0-	10,1		56	118	71	45	12	☺☺☺	
DC150-05-10.200A0-	10,2		56	118	71	45	12	☺☺☺	
DC150-05-10.300A0-	10,3		56	118	71	45	12	☺☺☺	
DC150-05-10.319A0-	10,319	13/32"	56	118	71	45	12	☺☺☺	
DC150-05-10.400A0-	10,4		56	118	71	45	12	☺☺☺	
DC150-05-10.500A0-	10,5		56	118	71	45	12	☺☺☺	
DC150-05-10.600A0-	10,6		56	118	71	45	12	☺☺☺	
DC150-05-10.700A0-	10,7		56	118	71	45	12	☺☺☺	
DC150-05-10.716A0-	10,716	27/64"	56	118	71	45	12	☺☺☺	
DC150-05-10.800A0-	10,8		56	118	71	45	12	☺☺☺	
DC150-05-11.000A0-	11		56	118	71	45	12	☺☺☺	
DC150-05-11.113A0-	11,113	7/16"	56	118	71	45	12	☺☺☺	
DC150-05-11.200A0-	11,2		56	118	71	45	12	☺☺☺	

Ordering example for the WJ30TA grade: DC150-05-03.000A0-WJ30TA

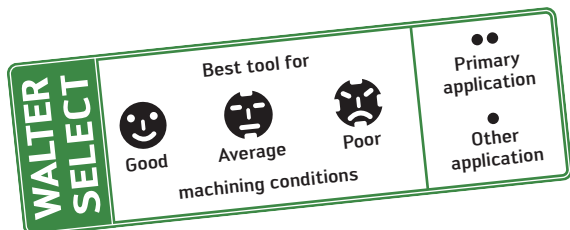
Continued

/ ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
	Shank DIN 6535 HA								
	DC150-05-11.500A0-	11,5		56	118	71	45	12	☺
	DC150-05-11.800A0-	11,8		56	118	71	45	12	☺
	DC150-05-11.906A0-	11,906	15/32"	56	118	71	45	12	☺
	DC150-05-12.000A0-	12		56	118	71	45	12	☺
	DC150-05-12.200A0-	12,2		60	124	77	45	14	☺
	DC150-05-12.300A0-	12,3		60	124	77	45	14	☺
	DC150-05-12.400A0-	12,4		60	124	77	45	14	☺
	DC150-05-12.500A0-	12,5		60	124	77	45	14	☺
	DC150-05-12.600A0-	12,6		60	124	77	45	14	☺
	DC150-05-12.700A0-	12,7	1/2"	60	124	77	45	14	☺
	DC150-05-13.000A0-	13		60	124	77	45	14	☺
	DC150-05-13.200A0-	13,2		60	124	77	45	14	☺
	DC150-05-13.494A0-	13,494	17/32"	60	124	77	45	14	☺
	DC150-05-13.500A0-	13,5		60	124	77	45	14	☺
	DC150-05-13.800A0-	13,8		60	124	77	45	14	☺
	DC150-05-14.000A0-	14		60	124	77	45	14	☺
	DC150-05-14.200A0-	14,2		63	133	83	48	16	☺
	DC150-05-14.288A0-	14,288	9/16"	63	133	83	48	16	☺
	DC150-05-14.500A0-	14,5		63	133	83	48	16	☺
DC150-05-15.000A0-	15		63	133	83	48	16	☺	
DC150-05-15.500A0-	15,5		63	133	83	48	16	☺	
DC150-05-15.800A0-	15,8		63	133	83	48	16	☺	
DC150-05-16.000A0-	16		63	133	83	48	16	☺	
DC150-05-16.500A0-	16,5		71	143	93	48	18	☺	
DC150-05-17.000A0-	17		71	143	93	48	18	☺	
DC150-05-17.500A0-	17,5		71	143	93	48	18	☺	
DC150-05-18.000A0-	18		71	143	93	48	18	☺	
DC150-05-19.000A0-	19		77	153	101	50	20	☺	
DC150-05-19.500A0-	19,5		77	153	101	50	20	☺	
DC150-05-20.000A0-	20		77	153	101	50	20	☺	

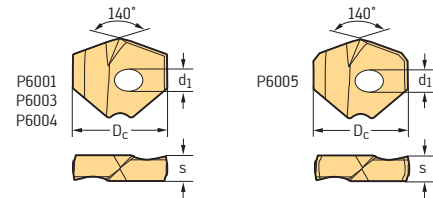
Ordering example for the WJ30TA grade: DC150-05-03.000A0-WJ30TA



B1




Drill inserts

P6001 / P6003 / P6004 / P6005



Drill inserts

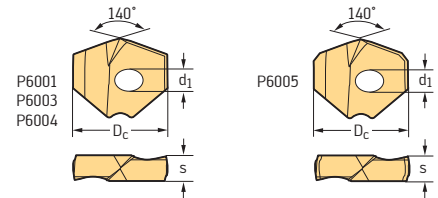
B1

Designation	Number of cutting edges	D _c mm	D _c Inch/ no.	Seat size	d ₁ mm	s mm	P6001		P6003		P6003	P6005	P6004	P6003
							P	P	M	K	N	S		
							WPP45C	HC WMP35	HC WMP35	HC WKK45C	HC WNN25	HC WMP35		
	P60.-D12,00R	2	12	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D12,10R	2	12,1	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D12,20R	2	12,2	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D12,30R	2	12,3	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D12,40R	2	12,4	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D12,50R	2	12,5	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D12,60R	2	12,6	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D12,70R	2	12,7	1/2"	A	3	3,6	☺	☺	☺	☺	☺	☺	
	P60.-D12,80R	2	12,8	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D12,90R	2	12,9	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D12,95R	2	12,95	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,00R	2	13	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,10R	2	13,1	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,11R	2	13,11	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,20R	2	13,2	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,25R	2	13,25	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,30R	2	13,3	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,40R	2	13,4	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,49R	2	13,49	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,50R	2	13,5	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,60R	2	13,6	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,70R	2	13,7	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,80R	2	13,8	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D13,89R	2	13,89	35/64"	A	3	3,6	☺	☺	☺	☺	☺	☺	☺
	P60.-D13,90R	2	13,9	A	3	3,6	☺	☺	☺	☺	☺	☺	☺	
	P60.-D14,00R	2	14	B	3	4	☺	☺	☺	☺	☺	☺	☺	
	P60.-D14,10R	2	14,1	B	3	4	☺	☺	☺	☺	☺	☺	☺	
	P60.-D14,20R	2	14,2	B	3	4	☺	☺	☺	☺	☺	☺	☺	
	P60.-D14,29R	2	14,29	B	3	4	☺	☺	☺	☺	☺	☺	☺	
	P60.-D14,30R	2	14,3	B	3	4	☺	☺	☺	☺	☺	☺	☺	
P60.-D14,40R	2	14,4	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D14,50R	2	14,5	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D14,60R	2	14,6	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D14,68R	2	14,68	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D14,70R	2	14,7	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D14,80R	2	14,8	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D14,90R	2	14,9	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D15,00R	2	15	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D15,08R	2	15,08	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D15,09R	2	15,09	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D15,10R	2	15,1	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D15,20R	2	15,2	B	3	4	☺	☺	☺	☺	☺	☺	☺		
P60.-D15,30R	2	15,3	B	3	4	☺	☺	☺	☺	☺	☺	☺		

Ordering example: P60.-D13.00R is available as P6003 in the WMP35 grade (ISO P, ISO M and ISO S); P6003-D13.00R WMP35 or as P6001 in the WPP45C grade (ISO P): P6001-D13.00R WPP45C

HC = Coated carbide

Drill inserts P6001 / P6003 / P6004 / P6005

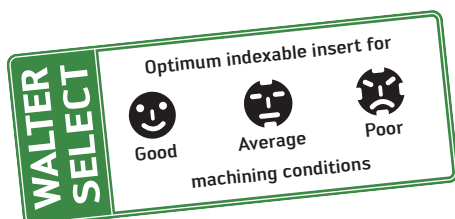


Drill inserts

Designation	Number of cutting edges	D _c mm	D _c Inch/ no.	Seat size	d ₁ mm	s mm	P6001		P6003		P6004		P6005		
							P	HC	P	HC	N	HC	K	HC	
							WPP45C	WMP35	WMP35	WMP35	WNN25	WNN25	WKK45C	WMP35	
P6001 	P60.-D15,40R	2	15,4	B	3	4	☺	☹	☹	☹			☹	☹	
	P60.-D15,47R	2	15,47	B	3	4	☺	☹	☹	☹			☹	☹	
	P60.-D15,48R	2	15,48	B	3	4							☹		
	P60.-D15,50R	2	15,5	B	3	4	☺	☹	☹	☹	☹		☹	☹	
	P60.-D15,60R	2	15,6	B	3	4	☺	☹	☹	☹	☹		☹	☹	
P6003 	P60.-D15,80R	2	15,8	B	3	4	☺	☹	☹	☹			☹	☹	
	P60.-D15,87R	2	15,87	B	3	4	☺	☹	☹	☹			☹	☹	
	P60.-D15,88R	2	15,88	B	3	4							☹		
	P60.-D15,90R	2	15,9	B	3	4							☹		
	P60.-D16,00R	2	16	C	4	4,5	☺	☹	☹	☹	☹		☹	☹	
P6004 	P60.-D16,13R	2	16,13	C	4	4,5	☺	☹	☹	☹			☹	☹	
	P60.-D16,26R	2	16,26	C	4	4,5	☺	☹	☹	☹			☹	☹	
	P60.-D16,27R	2	16,27	C	4	4,5							☹		
	P60.-D16,43R	2	16,43	C	4	4,5	☺	☹	☹	☹			☹	☹	
	P60.-D16,50R	2	16,5	C	4	4,5	☺	☹	☹	☹	☹		☹	☹	
P6005 	P60.-D16,66R	2	16,66	C	4	4,5	☺	☹	☹	☹			☹	☹	
	P60.-D16,67R	2	16,67	C	4	4,5							☹		
	P60.-D16,70R	2	16,7	C	4	4,5	☺	☹	☹	☹			☹	☹	
	P60.-D16,80R	2	16,8	C	4	4,5							☹		
	P60.-D17,00R	2	17	C	4	4,5	☺	☹	☹	☹	☹		☹	☹	
	P60.-D17,07R	2	17,07	C	4	4,5	☺	☹	☹	☹	☹		☹	☹	
	P60.-D17,20R	2	17,2	C	4	4,5	☺	☹	☹	☹	☹		☹	☹	
	P60.-D17,45R	2	17,45	C	4	4,5	☺	☹	☹	☹	☹		☹	☹	
	P60.-D17,46R	2	17,46	C	4	4,5							☹		
	P60.-D17,50R	2	17,5	C	4	4,5	☺	☹	☹	☹	☹		☹	☹	
	P60.-D17,70R	2	17,7	C	4	4,5	☺	☹	☹	☹	☹		☹	☹	
	P60.-D17,80R	2	17,8	C	4	4,5							☹		
	P60.-D17,86R	2	17,86	45/64"	C	4	4,5	☺	☹	☹	☹		☹	☹	
	P60.-D18,00R	2	18		D	4	5	☺	☹	☹	☹	☹		☹	☹
	P60.-D18,24R	2	18,24		D	4	5	☺	☹	☹	☹		☹	☹	
P60.-D18,26R	2	18,26		D	4	5						☹			
P60.-D18,50R	2	18,5		D	4	5	☺	☹	☹	☹	☹		☹	☹	
P60.-D18,65R	2	18,65		D	4	5	☺	☹	☹	☹	☹		☹	☹	
P60.-D18,70R	2	18,7		D	4	5	☺	☹	☹	☹	☹		☹	☹	
P60.-D18,80R	2	18,8		D	4	5	☺	☹	☹	☹	☹		☹	☹	
P60.-D19,00R	2	19		D	4	5	☺	☹	☹	☹	☹		☹	☹	
P60.-D19,05R	2	19,05	3/4"	D	4	5	☺	☹	☹	☹	☹		☹	☹	
P60.-D19,20R	2	19,2		D	4	5	☺	☹	☹	☹	☹		☹	☹	

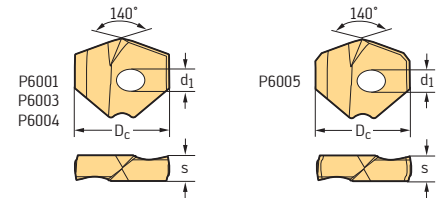
Ordering example: P60.-D13,00R is available as P6003 in the WMP35 grade (ISO P, ISO M and ISO S); P6003-D13,00R WMP35 or as P6001 in the WPP45C grade (ISO P); P6001-D13,00R WPP45C

HC = Coated carbide







Drill inserts

P6001 / P6003 / P6004 / P6005



Drill inserts

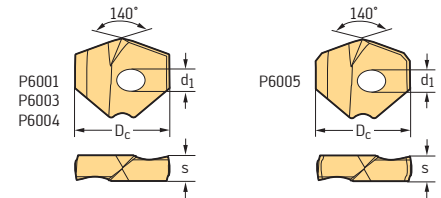
B1

Designation	Number of cutting edges	D _c mm	D _c Inch/ no.	Seat size	d ₁ mm	s mm	P6001		P6003		P6003	P6005	P6004	P6003
							P	HC	P	HC	M	K	N	S
							WPP45C	WMP35	WMP35	WMP35	WKK45C	WNN25	WMP35	WMP35
P6001 	P60.-D19,25R	2	19,25		D	4	5	☹	☹	☹	☹			☹
	P60.-D19,30R	2	19,3		D	4	5	☹	☹	☹	☹			☹
	P60.-D19,43R	2	19,43		D	4	5	☹	☹	☹	☹			☹
	P60.-D19,45R	2	19,45		D	4	5				☹			
	P60.-D19,50R	2	19,5		D	4	5	☹	☹	☹	☹	☹		☹
P6003 	P60.-D19,70R	2	19,7		D	4	5	☹	☹	☹	☹	☹		☹
	P60.-D19,80R	2	19,8		D	4	5				☹			
	P60.-D19,84R	2	19,84		D	4	5	☹	☹	☹	☹	☹		☹
	P60.-D20,00R	2	20		E	5	5,5	☹	☹	☹	☹	☹		☹
	P60.-D20,20R	2	20,2		E	5	5,5	☹	☹	☹	☹			☹
P6004 	P60.-D20,24R	2	20,24	51/64"	E	5	5,5	☹	☹	☹	☹			☹
	P60.-D20,50R	2	20,5		E	5	5,5	☹	☹	☹	☹	☹		☹
	P60.-D20,62R	2	20,62		E	5	5,5	☹	☹	☹	☹			☹
	P60.-D20,64R	2	20,64		E	5	5,5				☹			
	P60.-D20,70R	2	20,7		E	5	5,5	☹	☹	☹	☹			☹
P6005 	P60.-D21,00R	2	21		E	5	5,5	☹	☹	☹	☹	☹		☹
	P60.-D21,41R	2	21,41		E	5	5,5	☹	☹	☹	☹			☹
	P60.-D21,43R	2	21,43		E	5	5,5				☹			
	P60.-D21,50R	2	21,5		E	5	5,5	☹	☹	☹	☹	☹		☹
	P60.-D21,70R	2	21,7		E	5	5,5	☹	☹	☹	☹	☹		☹
	P60.-D21,83R	2	21,83		E	5	5,5	☹	☹	☹	☹			☹
	P60.-D22,00R	2	22		F	5	6	☹	☹	☹	☹	☹		☹
	P60.-D22,22R	2	22,22		F	5	6	☹	☹	☹	☹			☹
	P60.-D22,23R	2	22,23		F	5	6				☹			
	P60.-D22,42R	2	22,42		F	5	6	☹	☹	☹	☹			☹
	P60.-D22,47R	2	22,47		F	5	6	☹	☹	☹	☹			☹
	P60.-D22,50R	2	22,5		F	5	6	☹	☹	☹	☹	☹		☹
	P60.-D22,62R	2	22,62		F	5	6	☹	☹	☹	☹			☹
	P60.-D22,70R	2	22,7		F	5	6	☹	☹	☹	☹			☹
	P60.-D22,77R	2	22,77		F	5	6	☹	☹	☹	☹			☹
P60.-D23,00R	2	23		F	5	6	☹	☹	☹	☹	☹		☹	
P60.-D23,02R	2	23,02		F	5	6				☹				
P60.-D23,39R	2	23,39		F	5	6	☹	☹	☹	☹			☹	
P60.-D23,50R	2	23,5		F	5	6	☹	☹	☹	☹	☹		☹	
P60.-D23,70R	2	23,7		F	5	6	☹	☹	☹	☹			☹	
P60.-D23,80R	2	23,8		F	5	6	☹	☹	☹	☹			☹	
P60.-D23,81R	2	23,81		F	5	6				☹				
P60.-D24,00R	2	24		G	5	6,5	☹	☹	☹	☹	☹		☹	
P60.-D24,21R	2	24,21	61/64"	G	5	6,5	☹	☹	☹	☹			☹	
P60.-D24,50R	2	24,5		G	5	6,5	☹	☹	☹	☹	☹		☹	
P60.-D24,59R	2	24,59		G	5	6,5	☹	☹	☹	☹			☹	
P60.-D24,61R	2	24,61		G	5	6,5				☹				

Ordering example: P60.-D13.00R is available as P6003 in the WMP35 grade (ISO P, ISO M and ISO S); P6003-D13.00R WMP35 or as P6001 in the WPP45C grade (ISO P): P6001-D13.00R WPP45C

HC = Coated carbide

Drill inserts P6001 / P6003 / P6004 / P6005

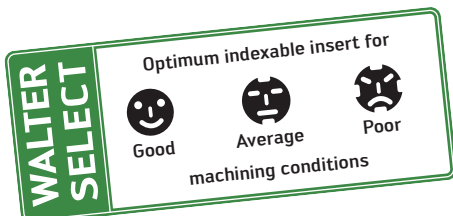


Drill inserts

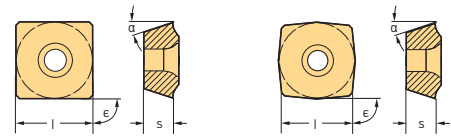
Designation	Number of cutting edges	D _c mm	D _c Inch/ no.	Seat size	d ₁ mm	s mm	P6001	P6003	P6003	P6005	P6004	P6003
							P	P	M	K	N	S
							HC WPP45C	HC WMP35	HC WMP35	HC WKK45C	HC WNN25	HC WMP35
	P60..-D24,70R	2	24,7		G	5	6,5	☹	☹	☹	☹	☹
	P60..-D25,00R	2	25		G	5	6,5	☹	☹	☹	☹	☹
	P60..-D25,25R	2	25,25		G	5	6,5	☹	☹	☹	☹	☹
	P60..-D25,40R	2	25,4	1"	G	5	6,5	☹	☹	☹	☹	☹
	P60..-D25,50R	2	25,5		G	5	6,5	☹	☹	☹	☹	☹
	P60..-D25,65R	2	25,65		G	5	6,5	☹	☹	☹	☹	☹
	P60..-D25,70R	2	25,7		G	5	6,5	☹	☹	☹	☹	☹
	P60..-D25,80R	2	25,8		G	5	6,5	☹	☹	☹	☹	☹
	P60..-D26,00R	2	26		H	6	7,1	☹	☹	☹	☹	☹
	P60..-D26,25R	2	26,25		H	6	7,1	☹	☹	☹	☹	☹
	P60..-D26,50R	2	26,5		H	6	7,1	☹	☹	☹	☹	☹
	P60..-D26,59R	2	26,59	1 3/64"	H	6	7,1	☹	☹	☹	☹	☹
	P60..-D27,00R	2	27		H	6	7,1	☹	☹	☹	☹	☹
	P60..-D27,38R	2	27,38		H	6	7,1	☹	☹	☹	☹	☹
	P60..-D27,50R	2	27,5		H	6	7,1	☹	☹	☹	☹	☹
	P60..-D27,78R	2	27,78		H	6	7,1	☹	☹	☹	☹	☹
	P60..-D28,00R	2	28		J	6	7,7	☹	☹	☹	☹	☹
	P60..-D28,17R	2	28,17		J	6	7,7	☹	☹	☹	☹	☹
	P60..-D28,50R	2	28,5		J	6	7,7	☹	☹	☹	☹	☹
	P60..-D28,57R	2	28,57		J	6	7,7	☹	☹	☹	☹	☹
	P60..-D29,00R	2	29		J	6	7,7	☹	☹	☹	☹	☹
	P60..-D29,37R	2	29,37		J	6	7,7	☹	☹	☹	☹	☹
	P60..-D29,50R	2	29,5		J	6	7,7	☹	☹	☹	☹	☹
	P60..-D29,77R	2	29,77		J	6	7,7	☹	☹	☹	☹	☹
	P60..-D30,00R	2	30		K	6	8	☹	☹	☹	☹	☹
	P60..-D30,15R	2	30,15		K	6	8	☹	☹	☹	☹	☹
	P60..-D30,50R	2	30,5		K	6	8	☹	☹	☹	☹	☹
	P60..-D31,00R	2	31		K	6	8	☹	☹	☹	☹	☹
	P60..-D31,50R	2	31,5		K	6	8	☹	☹	☹	☹	☹
	P60..-D31,75R	2	31,75	1 1/4"	K	6	8	☹	☹	☹	☹	☹
	P60..-D31,99R	2	31,99		K	6	8	☹	☹	☹	☹	☹
	P60..-D32,00R	2	32		L	6	8,3	☹	☹	☹	☹	☹
P60..-D32,10R	2	32,1		L	6	8,3	☹	☹	☹	☹	☹	
P60..-D33,00R	2	33		L	6	8,3	☹	☹	☹	☹	☹	
P60..-D34,00R	2	34		M	6	8,6	☹	☹	☹	☹	☹	
P60..-D35,00R	2	35		M	6	8,6	☹	☹	☹	☹	☹	
P60..-D36,00R	2	36		N	6	8,9	☹	☹	☹	☹	☹	
P60..-D37,00R	2	37		N	6	8,9	☹	☹	☹	☹	☹	
P60..-D37,99R	2	37,99		N	6	8,9	☹	☹	☹	☹	☹	

Ordering example: P60..-D13,00R is available as P6003 in the WMP35 grade (ISO P, ISO M and ISO S); P6003-D13,00R WMP35 or as P6001 in the WPP45C grade (ISO P): P6001-D13,00R WPP45C

HC = Coated carbide



B1

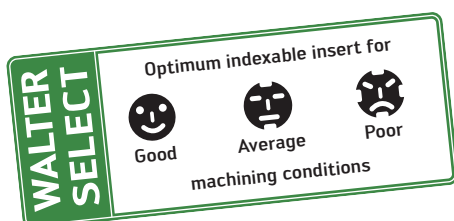
Square
P284..


Indexable inserts

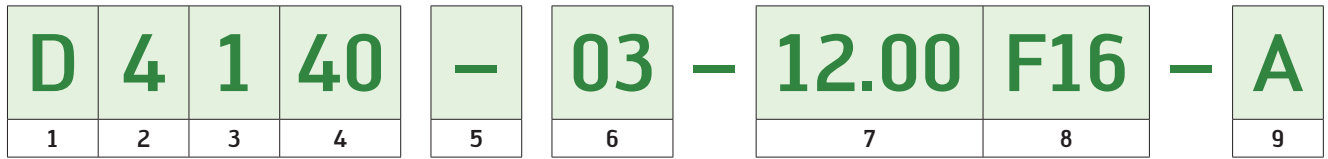
B1

Designation	Number of cutting edges	l mm	s mm	α	ε	P					M			K			N		S	
						HC					HC			HC			HC	HC		
						WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WK40	WK40	WSP45
P2840S-1N-A57	4	6,35	2,38	14°	90°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-2N-A57	4	7,8	3,18	14°	90°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-3N-A57	4	9,52	3,97	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-4N-A57	4	11	3,97	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-5N-A57	4	12,7	4,76	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-6N-A57	4	15	4,76	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-7N-A57	4	17,6	5,56	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-1N-E67	4	6,35	2,38	14°	90°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-2N-E67	4	7,8	3,18	14°	90°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-3N-E67	4	9,52	3,97	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-4N-E67	4	11	3,97	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-5N-E67	4	12,7	4,76	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-6N-E67	4	15	4,76	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2840S-7N-E67	4	17,6	5,56	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-1N-A57	4	6,35	2,38	14°	90°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-2N-A57	4	7,8	3,18	14°	90°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-3N-A57	4	9,52	3,97	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-4N-A57	4	11	3,97	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-5N-A57	4	12,7	4,76	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-6N-A57	4	15	4,76	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-7N-A57	4	17,6	5,56	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-1N-E57	4	6,35	2,38	14°	90°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-2N-E57	4	7,8	3,18	14°	90°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-3N-E57	4	9,52	3,97	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-4N-E57	4	11	3,97	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-5N-E57	4	12,7	4,76	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-6N-E57	4	15	4,76	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-7N-E57	4	17,6	5,56	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-1N-E67	4	6,35	2,38	14°	90°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-2N-E67	4	7,8	3,18	14°	90°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-3N-E67	4	9,52	3,97	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-4N-E67	4	11	3,97	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-5N-E67	4	12,7	4,76	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-6N-E67	4	15	4,76	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
P2841S-7N-E67	4	17,6	5,56	11°	96°	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉

HC = Coated carbide



Designation key for Walter drilling tools with indexable inserts



1
Tool group
D Drilling

2
Generation

3
Tool type
1 Cylindrical drill
5 Chamfering tool

4
Tool type
20 Indexable insert drill with square indexable insert
40 Indexable insert drill with P600x indexable insert
80 Compact chamfering tool

5
1. Delimiters
— Metric
. Inch

6
Drilling depth/ chamfer angle
02 2 × D _c
03 3 × D _c
04 4 × D _c
05 5 × D _c
07 7 × D _c
10 10 × D _c
45 45° chamfer angle

7
Cutting diameter/clamping diameter of the chamfering tool

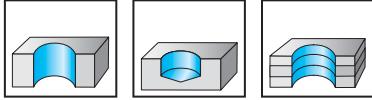
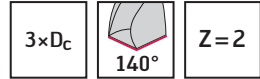
8
Shank type and size, cylindrical
F16 16 mm
F20 20 mm
F25 25 mm
F32 32 mm
F40 40 mm
A12 12 mm
A16 16 mm
A20 20 mm
A25 25 mm
A13 0.500 inch
A15 0.625 inch
A19 0.750 inch
A26 1.000 inch

9
Insert size/ interface size

B1

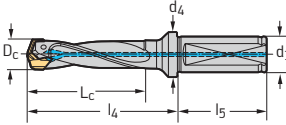
Exchangeable Insert drills

D4140 mm



	P	M	K	N	S	H	O
D4140	●	●	●	●	●		

B1

Tool	Designation	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Seat size	Type
Parallel shank with flat 	D4140-03-12.00F16-A	12	36	68	48	16	20	0,21	1	A	P600 . -D12, ..
	D4140-03-13.00F16-A	13	41	72	48	16	20	0,22	1	A	P600 . -D13, ..
	D4140-03-14.00F16-B	14	45	76	48	16	20	0,15	1	B	P600 . -D14, ..
	D4140-03-15.00F16-B	15	48	80	48	16	20	0,16	1	B	P600 . -D15, ..
	D4140-03-16.00F20-C	16	51	84	50	20	25	0,25	1	C	P600 . -D16, ..
	D4140-03-17.00F20-C	17	54	88	50	20	25	0,27	1	C	P600 . -D17, ..
	D4140-03-18.00F20-D	18	57	92	50	20	25	0,25	1	D	P600 . -D18, ..
	D4140-03-19.00F20-D	19	61	96	50	20	25	0,26	1	D	P600 . -D19, ..
	D4140-03-20.00F20-E	20	64	100	50	20	25	0,28	1	E	P600 . -D20, ..
	D4140-03-21.00F20-E	21	67	104	50	20	25	0,3	1	E	P600 . -D21, ..
	D4140-03-22.00F25-F	22	70	109	56	25	32	0,48	1	F	P600 . -D22, ..
	D4140-03-23.00F25-F	23	73	113	56	25	32	0,50	1	F	P600 . -D23, ..
	D4140-03-24.00F25-G	24	76	117	56	25	32	0,52	1	G	P600 . -D24, ..
	D4140-03-25.00F25-G	25	80	121	56	25	32	0,50	1	G	P600 . -D25, ..
	D4140-03-26.00F25-H	26	83	125	56	25	32	0,57	1	H	P600 . -D26, ..
	D4140-03-27.00F25-H	27	86	129	56	25	32	0,63	1	H	P600 . -D27, ..
	D4140-03-28.00F32-J	28	89	134	60	32	40	0,86	1	J	P600 . -D28, ..
	D4140-03-29.00F32-J	29	92	138	60	32	40	0,89	1	J	P600 . -D29, ..
	D4140-03-30.00F32-K	30	95	142	60	32	40	0,95	1	K	P600 . -D30, ..
	D4140-03-31.00F32-K	31	99	146	60	32	40	1,01	1	K	P600 . -D31, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-31	
	Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)
	Tightening torque	1.2 Nm	2.0 Nm	2.0 Nm	4.0 Nm	5.0 Nm	5.0 Nm	5.0 Nm	5.5 Nm	5.5 Nm

Accessories

D _c [mm]	12-13	14-17	18-19	20-25	26-31
	Torque T-handle				FS2041
	Tightening torque				4.5-14 Nm
	Torque screwdriver, analogue	FS2001	FS2003	FS2003	FS2003
	Tightening torque	0.4-1.2 Nm	1.5-5.0 Nm	1.5-5.0 Nm	1.5-5.0 Nm
	Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)
					FS2049 (Torx 25IP)

Drill inserts

Designation	D _c mm	Seat size	P	M	K	N	S						
			HC	HC	HC	HC	HC						
			WPP45C	WMP35	WMP35	WKK45C	WNN25	WMP35					
	P6001-D..	12-31,99	A-K										
	P6003-D..	12-31,99	A-K										
	P6004-D..	12-31,5	A-K										
	P6005-D..	12-31,99	A-K										

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

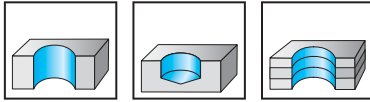
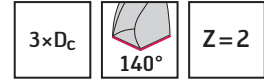
Moderate

•• Primary application

• Other application

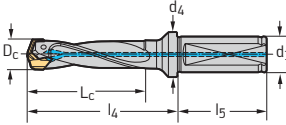
Exchangeable Insert drills

D4140 inch



P	M	K	N	S	H	O
●	●	●	●	●		

B1

Tool	Designation	D _c Inch	L _c Inch	l ₄ Inch	l ₅ Inch	d ₁ Inch	d ₄ Inch	lbs	No. of indexable inserts	Type
Parallel shank with flat 	★ D4140.03-12,00F15-A	0,472	1,496	2,677	1,890	0,625	0,787	0,40	1	P600 . -D12, ..
	★ D4140.03-13,00F15-A	0,512	1,614	2,834	1,890	0,625	0,787	0,42	1	P600 . -D13, ..
	★ D4140.03-14,00F15-B	0,551	1,772	2,992	1,890	0,625	0,787	0,44	1	P600 . -D14, ..
	★ D4140.03-15,00F15-B	0,591	1,890	3,149	1,890	0,625	0,787	0,46	1	P600 . -D15, ..
	★ D4140.03-16,00F19-C	0,630	2,008	3,307	2,031	0,750	0,984	0,49	1	P600 . -D16, ..
	★ D4140.03-17,00F19-C	0,669	2,126	3,465	2,031	0,750	0,984	0,51	1	P600 . -D17, ..
	★ D4140.03-18,00F19-D	0,709	2,244	3,622	2,031	0,750	0,984	0,55	1	P600 . -D18, ..
	★ D4140.03-19,00F19-D	0,748	2,362	3,779	2,031	0,750	0,984	0,60	1	P600 . -D19, ..
	★ D4140.03-20,00F19-E	0,787	2,520	3,937	2,031	0,750	0,984	0,64	1	P600 . -D20, ..
	★ D4140.03-21,00F19-E	0,827	2,638	4,094	2,031	0,750	0,984	0,68	1	P600 . -D21, ..
	★ D4140.03-22,00F26-F	0,866	2,756	4,291	2,281	1,000	1,260	1,33	1	P600 . -D22, ..
	★ D4140.03-23,00F26-F	0,906	2,874	4,449	2,281	1,000	1,260	1,10	1	P600 . -D23, ..
	★ D4140.03-24,00F26-G	0,945	2,992	4,607	2,281	1,000	1,260	1,12	1	P600 . -D24, ..
	★ D4140.03-25,00F26-G	0,984	3,150	4,764	2,281	1,000	1,260	1,24	1	P600 . -D25, ..
	★ D4140.03-26,00F26-H	1,024	3,268	4,921	2,281	1,000	1,260	1,26	1	P600 . -D26, ..
	★ D4140.03-27,00F26-H	1,063	3,386	5,078	2,281	1,000	1,260	1,32	1	P600 . -D27, ..
	★ D4140.03-28,00F31-J	1,102	3,504	5,276	2,281	1,250	1,575	1,76	1	P600 . -D28, ..
	★ D4140.03-29,00F31-J	1,142	3,622	5,433	2,281	1,250	1,575	1,85	1	P600 . -D29, ..
	★ D4140.03-30,00F31-K	1,181	3,740	5,591	2,281	1,250	1,575	1,94	1	P600 . -D30, ..
	★ D4140.03-31,00F31-K	1,220	3,898	5,748	2,281	1,250	1,575	2,05	1	P600 . -D31, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	D _c [Inch]	0,472–0,512		0,551–0,591		0,630–0,669		0,709–0,748		0,787–0,827		0,866–0,906		0,945–0,984		1,024–1,063		1,102–1,220		
	Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS1404 (Torx 25IP)	FS1404 (Torx 25IP)	FS1404 (Torx 25IP)	FS1404 (Torx 25IP)	FS1404 (Torx 25IP)	FS1404 (Torx 25IP)	FS1404 (Torx 25IP)	FS1404 (Torx 25IP)	FS1404 (Torx 25IP)
	Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm

Accessories

	D _c [Inch]	0,472–0,512		0,551–0,669		0,709–0,748		0,787–0,984		1,024–1,220	
	Torque T-handle										FS2042
	Tightening torque										4,5–14 Nm
	Torque screwdriver, analogue		FS2002	FS2002	FS2002	FS2002	FS2002	FS2002	FS2002	FS2002	
	Tightening torque		0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	
	Interchangeable blade		FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2015 (Torx 20IP)	FS2015 (Torx 20IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)	
	Screwdriver		FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1486 (Torx 20IP)	FS1486 (Torx 20IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)	

Drill inserts

Designation	D _c mm	Seat size	P		M		K		N		S										
			HC	HC	HC	HC	HC	HC													
			WPP45C	WMP35	WMP35	WKK45C	WNN25	WMP35													
	P6001-D..	12–31,99	A–K	☒																	
	P6003-D..	12–31,99	A–K		☒	☒															
	P6004-D..	12–31,5	A–K						☒												
	P6005-D..	12–31,99	A–K				☒														

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

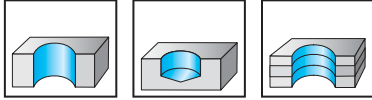
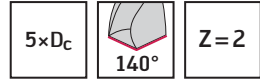
☹
Moderate

●● Primary application

● Other application

Exchangeable Insert drills

D4140 mm



	P	M	K	N	S	H	O
D4140	●	●	●	●	●		

B1

Tool	Designation	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Seat size	Type
Parallel shank with flat 	D4140-05-12.00F16-A	12	62	92	48	16	20	0,22	1	A	P600 . -D12, ..
	D4140-05-13.00F16-A	13	67	98	48	16	20	0,23	1	A	P600 . -D13, ..
	D4140-05-14.00F16-B	14	73	104	48	16	20	0,25	1	B	P600 . -D14, ..
	D4140-05-15.00F16-B	15	78	110	48	16	20	0,26	1	B	P600 . -D15, ..
	D4140-05-16.00F20-C	16	83	116	50	20	25	0,28	1	C	P600 . -D16, ..
	D4140-05-17.00F20-C	17	88	122	50	20	25	0,30	1	C	P600 . -D17, ..
	D4140-05-18.00F20-D	18	93	128	50	20	25	0,32	1	D	P600 . -D18, ..
	D4140-05-19.00F20-D	19	98	134	50	20	25	0,34	1	D	P600 . -D19, ..
	D4140-05-20.00F20-E	20	104	140	50	20	25	0,36	1	E	P600 . -D20, ..
	D4140-05-21.00F20-E	21	109	146	50	20	25	0,39	1	E	P600 . -D21, ..
	D4140-05-22.00F25-F	22	114	153	56	25	32	0,60	1	F	P600 . -D22, ..
	D4140-05-23.00F25-F	23	119	159	56	25	32	0,61	1	F	P600 . -D23, ..
	D4140-05-24.00F25-G	24	124	165	56	25	32	0,64	1	G	P600 . -D24, ..
	D4140-05-25.00F25-G	25	130	171	56	25	32	0,66	1	G	P600 . -D25, ..
	D4140-05-26.00F25-H	26	135	177	56	25	32	0,72	1	H	P600 . -D26, ..
	D4140-05-27.00F25-H	27	140	183	56	25	32	0,77	1	H	P600 . -D27, ..
	D4140-05-28.00F32-J	28	145	190	60	32	40	1,04	1	J	P600 . -D28, ..
	D4140-05-29.00F32-J	29	150	196	60	32	40	1,08	1	J	P600 . -D29, ..
	D4140-05-30.00F32-K	30	155	202	60	32	40	1,16	1	K	P600 . -D30, ..
	D4140-05-31.00F32-K	31	161	208	60	32	40	1,21	1	K	P600 . -D31, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-31	
	Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)
	Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm

Accessories

D _c [mm]	12-13	14-17	18-19	20-25	26-31	
	Torque T-handle Tightening torque				FS2041 4.5-14 Nm	
	Torque screwdriver, analogue Tightening torque	FS2001 0.4-1.2 Nm	FS2003 1.5-5.0 Nm	FS2003 1.5-5.0 Nm	FS2003 1.5-5.0 Nm	
	Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts

Designation	D _c mm	Seat size	P	M	K	N	S							
			HC	HC	HC	HC	HC							
			WPP45C	WMP35	WMP35	WKK45C	WNN25	WMP35						
P6001-D..	12-31,99	A-K	☺											
P6003-D..	12-31,99	A-K		☺	☺			☺						
P6004-D..	12-31,5	A-K					☺							
P6005-D..	12-31,99	A-K			☺									

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

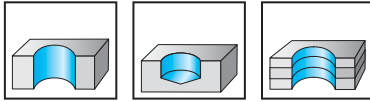
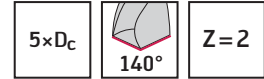
☹
Moderate

•• Primary application

• Other application

Exchangeable Insert drills

D4140 inch

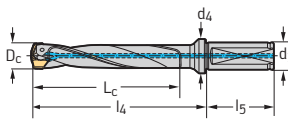


D4140	P	M	K	N	S	H	O
	●	●	●	●	●		

B1

Tool

Parallel shank with flat



Designation	D _c Inch	L _c Inch	l ₄ Inch	l ₅ Inch	d ₁ Inch	d ₄ Inch	lbs	No. of indexable inserts	Type
★ D4140.05-12,00F15-A	0,472	2,441	3,622	1,890	0,625	0,787	0,42	1	P600 . -D12, ..
★ D4140.05-13,00F15-A	0,512	2,638	3,858	1,890	0,625	0,787	0,44	1	P600 . -D13, ..
★ D4140.05-14,00F15-B	0,551	2,874	4,094	1,890	0,625	0,787	0,46	1	P600 . -D14, ..
★ D4140.05-15,00F15-B	0,591	3,071	4,330	1,890	0,625	0,787	0,57	1	P600 . -D15, ..
★ D4140.05-16,00F19-C	0,630	3,268	4,567	2,031	0,750	0,984	0,55	1	P600 . -D16, ..
★ D4140.05-17,00F19-C	0,669	3,465	4,803	2,031	0,750	0,984	0,60	1	P600 . -D17, ..
★ D4140.05-18,00F19-D	0,709	3,661	5,039	2,031	0,750	0,984	0,64	1	P600 . -D18, ..
★ D4140.05-19,00F19-D	0,748	3,858	5,275	2,031	0,750	0,984	0,68	1	P600 . -D19, ..
★ D4140.05-20,00F19-E	0,787	4,094	5,512	2,031	0,750	0,984	0,75	1	P600 . -D20, ..
★ D4140.05-21,00F19-E	0,827	4,291	5,748	2,031	0,750	0,984	0,82	1	P600 . -D21, ..
★ D4140.05-22,00F26-F	0,866	4,488	6,024	2,281	1,000	1,260	1,19	1	P600 . -D22, ..
★ D4140.05-23,00F26-F	0,906	4,685	6,260	2,281	1,000	1,260	1,28	1	P600 . -D23, ..
★ D4140.05-24,00F26-G	0,945	4,882	6,496	2,281	1,000	1,260	1,34	1	P600 . -D24, ..
★ D4140.05-25,00F26-G	0,984	5,118	6,732	2,281	1,000	1,260	1,46	1	P600 . -D25, ..
★ D4140.05-26,00F26-H	1,024	5,315	6,968	2,281	1,000	1,260	1,54	1	P600 . -D26, ..
★ D4140.05-27,00F26-H	1,063	5,512	7,204	2,281	1,000	1,260	1,63	1	P600 . -D27, ..
★ D4140.05-28,00F31-J	1,102	5,709	7,481	2,281	1,250	1,575	2,12	1	P600 . -D28, ..
★ D4140.05-29,00F31-J	1,142	5,906	7,717	2,281	1,250	1,575	2,25	1	P600 . -D29, ..
★ D4140.05-30,00F31-K	1,181	6,339	7,953	2,281	1,250	1,575	2,38	1	P600 . -D30, ..
★ D4140.05-31,00F31-K	1,220	6,339	8,189	2,281	1,250	1,575	2,54	1	P600 . -D31, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	D _c [Inch]	0,472–0,512		0,551–0,591		0,630–0,669		0,709–0,748		0,787–0,827		0,866–0,906		0,945–0,984		1,024–1,063		1,102–1,220	
	Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)
	Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm	5,5 Nm

Accessories

	D _c [Inch]	0,472–0,512		0,551–0,669		0,709–0,748		0,787–0,984		1,024–1,220	
	Torque T-handle										FS2042
	Tightening torque										4,5–14 Nm
	Torque screwdriver, analogue		FS2002	FS2002	FS2002	FS2002	FS2002	FS2002	FS2002		
	Tightening torque		0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm		
	Interchangeable blade		FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)			
	Screwdriver		FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)				

Drill inserts

Designation	D _c mm	Seat size	P		M		K		N		S							
			HC	HC	HC	HC	HC	HC										
			WPP45C	WMP35	WMP35	WKK45C	WNN25	WMP35										
	P6001-D..	12–31,99	A–K	☒														
	P6003-D..	12–31,99	A–K		☒	☒												
	P6004-D..	12–31,5	A–K						☒									
	P6005-D..	12–31,99	A–K				☒											

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

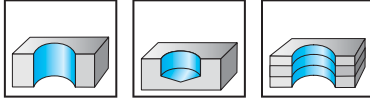
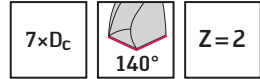
☹
Moderate

●● Primary application

● Other application

Exchangeable Insert drills

D4140 mm



	P	M	K	N	S	H	O
D4140	●	●	●	●	●		

B1

Tool	Designation	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Seat size	Type
Parallel shank with flat 	D4140-07-12.00F16-A	12	86	116	48	16	20	0,23	1	A	P600 . -D12, ..
	D4140-07-13.00F16-A	13	93	124	48	16	20	0,25	1	A	P600 . -D13, ..
	D4140-07-14.00F16-B	14	101	132	48	16	20	0,26	1	B	P600 . -D14, ..
	D4140-07-15.00F16-B	15	108	140	48	16	20	0,21	1	B	P600 . -D15, ..
	D4140-07-16.00F20-C	16	115	148	50	20	25	0,31	1	C	P600 . -D16, ..
	D4140-07-17.00F20-C	17	122	156	50	20	25	0,35	1	C	P600 . -D17, ..
	D4140-07-18.00F20-D	18	126	164	50	20	25	0,38	1	D	P600 . -D18, ..
	D4140-07-19.00F20-D	19	136	172	50	20	25	0,41	1	D	P600 . -D19, ..
	D4140-07-20.00F20-E	20	144	180	50	20	25	0,45	1	E	P600 . -D20, ..
	D4140-07-21.00F20-E	21	151	188	50	20	25	0,43	1	E	P600 . -D21, ..
	D4140-07-22.00F25-F	22	158	197	56	25	32	0,67	1	F	P600 . -D22, ..
	D4140-07-23.00F25-F	23	165	205	56	25	32	0,69	1	F	P600 . -D23, ..
	D4140-07-24.00F25-G	24	172	213	56	25	32	0,68	1	G	P600 . -D24, ..
	D4140-07-25.00F25-G	25	180	221	56	25	32	0,78	1	G	P600 . -D25, ..
	D4140-07-26.00F25-H	26	187	229	56	25	32	0,87	1	H	P600 . -D26, ..
	D4140-07-27.00F25-H	27	194	237	56	25	32	0,91	1	H	P600 . -D27, ..
	D4140-07-28.00F32-J	28	201	246	60	32	40	1,11	1	J	P600 . -D28, ..
	D4140-07-29.00F32-J	29	208	254	60	32	40	1,14	1	J	P600 . -D29, ..
	D4140-07-30.00F32-K	30	215	262	60	32	40	1,24	1	K	P600 . -D30, ..
	D4140-07-31.00F32-K	31	223	270	60	32	40	1,44	1	K	P600 . -D31, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-31	
	Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)
	Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm

Accessories

D _c [mm]	12-13	14-17	18-19	20-25	26-31
	Torque T-handle				FS2041
	Tightening torque				4,5-14 Nm
	Torque screwdriver, analogue	FS2001	FS2003	FS2003	FS2003
	Tightening torque	0,4-1,2 Nm	1,5-5,0 Nm	1,5-5,0 Nm	1,5-5,0 Nm
	Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
					FS2049 (Torx 25IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)
					FS1487 (Torx 25IP)

Drill inserts

Designation	D _c mm	Seat size	P	M	K	N	S							
			HC	HC	HC	HC	HC							
			WPP45C	WMP35	WMP35	WKK45C	WNN25	WMP35						
 P6001-D..	12-31,99	A-K	☹											
P6003-D..	12-31,99	A-K		☹	☹			☹						
P6004-D..	12-31,5	A-K					☹							
P6005-D..	12-31,99	A-K			☹									

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

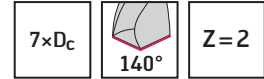
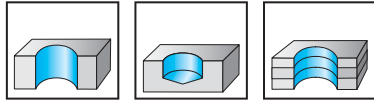
Moderate

•• Primary application

• Other application

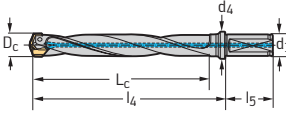
Exchangeable Insert drills

D4140 inch



	P	M	K	N	S	H	O
D4140	●	●	●	●	●		

B1

Tool	Designation	D _c Inch	L _c Inch	l ₄ Inch	l ₅ Inch	d ₁ Inch	d ₄ Inch	lbs	No. of indexable inserts	Type
Parallel shank with flat 	★ D4140.07-12,00F15-A	0,472	3,386	4,567	1,890	0,625	0,787	0,44	1	P600 . -D12, ..
	★ D4140.07-13,00F15-A	0,512	3,661	4,882	1,890	0,625	0,787	0,49	1	P600 . -D13, ..
	★ D4140.07-14,00F15-B	0,551	3,976	5,197	1,890	0,625	0,787	0,53	1	P600 . -D14, ..
	★ D4140.07-15,00F15-B	0,591	4,252	5,511	1,890	0,625	0,787	0,57	1	P600 . -D15, ..
	★ D4140.07-18,00F19-D	0,630	4,528	5,827	2,031	0,750	0,984	0,62	1	P600 . -D16, ..
	★ D4140.07-19,00F19-D	0,669	4,803	6,142	2,031	0,750	0,984	0,81	1	P600 . -D17, ..
	★ D4140.07-20,00F19-E	0,709	5,079	6,457	2,031	0,750	0,984	0,73	1	P600 . -D18, ..
	★ D4140.07-21,00F19-E	0,748	5,354	6,772	2,031	0,750	0,984	0,79	1	P600 . -D19, ..
	★ D4140.07-22,00F26-F	0,787	5,669	7,086	2,281	1,000	1,260	0,86	1	P600 . -D20, ..
	★ D4140.07-23,00F26-F	0,827	5,945	7,401	2,281	1,000	1,260	0,95	1	P600 . -D21, ..
	★ D4140.07-24,00F26-G	0,866	6,220	7,755	2,281	1,000	1,260	1,37	1	P600 . -D22, ..
	★ D4140.07-25,00F26-G	0,906	6,496	8,071	2,281	1,000	1,260	1,48	1	P600 . -D23, ..
	★ D4140.07-16,00F19-C	0,945	6,772	8,386	2,031	0,750	0,984	1,57	1	P600 . -D24, ..
	★ D4140.07-17,00F19-C	0,984	7,087	8,701	2,031	0,750	0,984	1,98	1	P600 . -D25, ..
	★ D4140.07-26,00F26-H	1,024	7,362	9,016	2,281	1,000	1,260	1,81	1	P600 . -D26, ..
	★ D4140.07-27,00F26-H	1,063	7,638	9,330	2,281	1,000	1,260	1,96	1	P600 . -D27, ..
	★ D4140.07-28,00F31-J	1,102	7,913	9,685	2,281	1,250	1,575	2,47	1	P600 . -D28, ..
	★ D4140.07-29,00F31-J	1,142	8,189	10,000	2,281	1,250	1,575	2,65	1	P600 . -D29, ..
	★ D4140.07-30,00F31-K	1,181	8,465	10,315	2,281	1,250	1,575	2,84	1	P600 . -D30, ..
	★ D4140.07-31,00F31-K	1,220	8,780	10,630	2,281	1,250	1,575	3,02	1	P600 . -D31, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]	0,472–0,512 0,551–0,591 0,630–0,669 0,709–0,748 0,787–0,827 0,866–0,906 0,945–0,984 1,024–1,063 1,102–1,220									
	Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1398 (Torx 8IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)
	Tightening torque	1,2 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	2,0 Nm	5,5 Nm	5,5 Nm

Accessories

D _c [Inch]	0,472–0,512		0,551–0,984		0,630–0,669		0,709–0,906		1,024–1,220	
	Torque T-handle									FS2042
	Tightening torque									4,5–14 Nm
	Torque screwdriver, analogue	FS2002	FS2002	FS2002	FS2002	FS2002	FS2002	FS2002	FS2002	
	Tightening torque	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	0,4–1,2 Nm	
	Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2015 (Torx 20IP)	FS2015 (Torx 20IP)	FS2015 (Torx 20IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1486 (Torx 20IP)	FS1486 (Torx 20IP)	FS1486 (Torx 20IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts

	Designation	D _c mm	Seat size	P		M		K		N		S							
				HC	HC	HC	HC	HC	HC										
				WPP45C	WMP35	WMP35	WKK45C	WNN25	WMP35										
	P6001-D..	12–31,99	A–K	☑															
	P6003-D..	12–31,99	A–K		☑	☑													
	P6004-D..	12–31,5	A–K							☑									
	P6005-D..	12–31,99	A–K				☑												

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

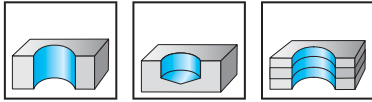
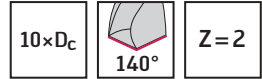
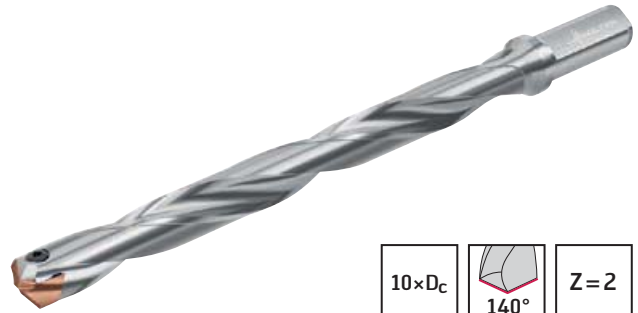
Moderate

•• Primary application

• Other application

Exchangeable Insert drills

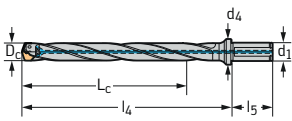
D4140 mm



	P	M	K	N	S	H	O
D4140	●	●	●	●	●		

B1

Tool	Designation	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Seat size	Type
Parallel shank with flat	★ D4140-10-18,00F20-D	18	183	218	50	20	25	0,44	1	D	P600 . -D18, ..
	★ D4140-10-20,00F20-E	20	204	240	50	20	25	0,53	1	E	P600 . -D20, ..
	★ D4140-10-22,00F25-F	22	224	263	56	25	32	0,79	1	F	P600 . -D22, ..
	★ D4140-10-24,00F25-G	24	244	285	56	25	32	0,91	1	G	P600 . -D24, ..






Bodies and assembly parts are included in the scope of delivery.


Assembly parts

D _c [mm]	18	20	22	24	
	Clamping screw for drill insert Tightening torque	FS1399 (Torx 15IP) 4,0 Nm	FS1400 (Torx 20IP) 5,0 Nm	FS1401 (Torx 20IP) 5,0 Nm	FS1402 (Torx 20IP) 5,0 Nm

Accessories

D _c [mm]	18	20-24	
	Torque screwdriver, analogue Tightening torque	FS2004 1,5-5,0 Nm	FS2004 1,5-5,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
	Screwdriver	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)


Drill inserts


Designation	D _c mm	Seat size	P		M		K		N		S							
			HC	WPP45C	HC	WMP35	HC	WMP35	HC	WKK45C	HC	WNN25	HC	WMP35				
 P6001-D..	18-24,7	D-G	●															
P6003-D..	18-24,7	D-G		●	●													
P6004-D..	18-24,5	D-G								●								
P6005-D..	18-24,7	D-G						●										


HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement


Very good


Good

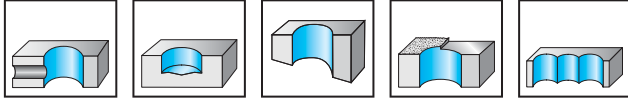

Moderate

●● Primary application

● Other application

Indexable Insert drills

D3120 mm

2×D_C
Z=1


D3120	P	M	K	N	S	H	O
	●	●	●	●	●		

B1

Tool	Designation	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	D3120-02-16.00F25-P21	16	32	57	56	25	32	0,30	2	P284 . S-1N- ..
	D3120-02-17.00F25-P21	17	34	59	56	25	32	0,31	2	
	D3120-02-18.00F25-P21	18	36	61	56	25	32	0,31	2	
	D3120-02-19.00F25-P21	19	38	63	56	25	32	0,32	2	
	D3120-02-20.00F25-P21	20	40	65	56	25	32	0,34	2	
	D3120-02-21.00F25-P22	21	42	67	56	25	32	0,36	2	
	D3120-02-22.00F25-P22	22	44	69	56	25	32	0,35	2	P284 . S-2N- ..
	D3120-02-23.00F25-P22	23	46	71	56	25	32	0,36	2	
	D3120-02-24.00F25-P22	24	48	73	56	25	32	0,37	2	
	D3120-02-25.00F25-P22	25	50	75	56	25	32	0,39	2	
	D3120-02-26.00F32-P23	26	52	84	60	32	40	0,62	2	P284 . S-3N- ..
	D3120-02-27.00F32-P23	27	54	86	60	32	40	0,68	2	
	D3120-02-28.00F32-P23	28	56	88	60	32	40	0,66	2	
	D3120-02-29.00F32-P23	29	58	90	60	32	40	0,69	2	
	D3120-02-30.00F32-P23	30	60	92	60	32	40	0,71	2	P284 . S-4N- ..
	D3120-02-31.00F32-P24	31	62	94	60	32	40	0,69	2	
	D3120-02-32.00F32-P24	32	64	96	60	32	40	0,72	2	
	D3120-02-33.00F32-P24	33	66	98	60	32	40	0,75	2	
	D3120-02-34.00F32-P24	34	68	100	60	32	40	0,78	2	
	D3120-02-35.00F32-P24	35	70	102	60	32	40	0,81	2	
	D3120-02-36.00F32-P24	36	72	104	60	32	40	0,85	2	P284 . S-5N- ..
	D3120-02-37.00F40-P25	37	74	114	70	40	50	1,28	2	
D3120-02-38.00F40-P25	38	76	116	70	40	50	1,32	2		
D3120-02-39.00F40-P25	39	78	118	70	40	50	1,36	2		
D3120-02-40.00F40-P25	40	80	120	70	40	50	1,39	2		
D3120-02-41.00F40-P25	41	82	122	70	40	50	1,44	2		
D3120-02-42.00F40-P25	42	84	124	70	40	50	1,48	2		

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	16–20	21–25	26–30	31–36	37–42
Clamping screw for indexable insert Tightening torque	FS1454 (Torx 8IP) 1,2 Nm	FS1456 (Torx 9IP) 2,0 Nm	FS2181 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm	FS2139 (Torx 20IP) 5,0 Nm

Accessories

D _c [mm]	16–20	21–25	26–36	37–42
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
Screwdriver	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Indexable inserts

Designation	Size	P					M			K			N		S			
		HC					HC			HC			HC		HC			
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WK40	WK40	WSP45	WSP45S	WXP40
P2840S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2840S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

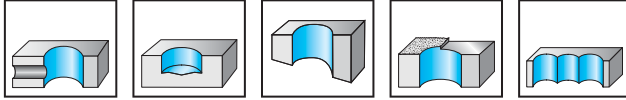
☹
Moderate

•• Primary application

• Other application

Indexable Insert drills

D3120 mm

3×D_C
Z=1


D3120	P	M	K	N	S	H	O
	●	●	●	●	●		

B1

Tool	Designation	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Type	
Parallel shank with flat 	D3120-03-16.00F25-P21	16	48	73	56	25	32	0,31	2	P284 . S-1N- ..	
	D3120-03-17.00F25-P21	17	51	76	56	25	32	0,32	2		
	D3120-03-18.00F25-P21	18	54	79	56	25	32	0,33	2		
	D3120-03-19.00F25-P21	19	57	82	56	25	32	0,34	2		
	D3120-03-20.00F25-P21	20	60	85	56	25	32	0,40	2		
		D3120-03-21.00F25-P22	21	63	88	56	25	32	0,36	2	P284 . S-2N- ..
	D3120-03-22.00F25-P22	22	66	91	56	25	32	0,42	2		
	D3120-03-23.00F25-P22	23	69	94	56	25	32	0,37	2		
	D3120-03-24.00F25-P22	24	72	97	56	25	32	0,42	2		
	D3120-03-25.00F25-P22	25	75	100	56	25	32	0,44	2		
		D3120-03-26.00F32-P23	26	78	110	60	32	40	0,67	2	P284 . S-3N- ..
	D3120-03-27.00F32-P23	27	81	113	60	32	40	0,74	2		
	D3120-03-28.00F32-P23	28	84	116	60	32	40	0,73	2		
	D3120-03-29.00F32-P23	29	87	119	60	32	40	0,76	2		
	D3120-03-30.00F32-P23	30	90	122	60	32	40	0,84	2		
		D3120-03-31.00F32-P24	31	93	125	60	32	40	0,78	2	P284 . S-4N- ..
	D3120-03-32.00F32-P24	32	96	128	60	32	40	0,86	2		
	D3120-03-33.00F32-P24	33	99	131	60	32	40	0,86	2		
	D3120-03-34.00F32-P24	34	102	134	60	32	40	0,9	2		
	D3120-03-35.00F32-P24	35	105	137	60	32	40	0,95	2		
	D3120-03-36.00F32-P24	36	108	140	60	32	40	1,00	2	P284 . S-5N- ..	
D3120-03-37.00F40-P25	37	111	151	70	40	50	1,43	2			
D3120-03-38.00F40-P25	38	114	154	70	40	50	1,49	2			
D3120-03-39.00F40-P25	39	117	157	70	40	50	1,64	2			
D3120-03-40.00F40-P25	40	120	160	70	40	50	1,60	2			
D3120-03-41.00F40-P25	41	123	163	70	40	50	1,67	2			
	D3120-03-42.00F40-P25	42	126	166	70	40	50	1,83	2		

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	16–20	21–25	26–30	31–36	37–42
Clamping screw for indexable insert Tightening torque	FS1454 (Torx 8IP) 1,2 Nm	FS1456 (Torx 9IP) 2,0 Nm	FS2181 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm	FS2139 (Torx 20IP) 5,0 Nm

Accessories

D _c [mm]	16–20	21–25	26–36	37–42
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
Screwdriver	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Indexable inserts

Designation	Size	P					M			K			N		S		
		HC					HC			HC			HC		HC		
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WXP40	WAK15	WKP25S	WKP35S	WXP40	WK40	WK40	WSP45	WSP45S	WXP40
P2840S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2840S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

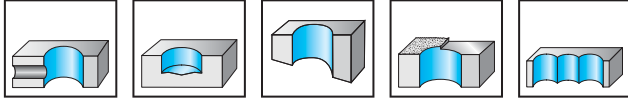
☹
Moderate

•• Primary application

• Other application

Indexable Insert drills

D3120 mm


4×D_C
Z=1


D3120	P	M	K	N	S	H	O
	●	●	●	●	●		

B1

Tool	Designation	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	D3120-04-16.00F25-P21	16	64	89	56	25	32	0,35	2	P284 . S-1N- ..
	D3120-04-17.00F25-P21	17	68	93	56	25	32	0,33	2	
	D3120-04-18.00F25-P21	18	72	97	56	25	32	0,35	2	
	D3120-04-19.00F25-P21	19	76	101	56	25	32	0,36	2	
	D3120-04-20.00F25-P21	20	80	105	56	25	32	0,38	2	
	D3120-04-21.00F25-P22	21	84	109	56	25	32	0,38	2	
	D3120-04-22.00F25-P22	22	88	113	56	25	32	0,43	2	
	D3120-04-23.00F25-P22	23	92	117	56	25	32	0,43	2	
	D3120-04-24.00F25-P22	24	96	121	56	25	32	0,46	2	
	D3120-04-25.00F25-P22	25	100	125	56	25	32	0,49	2	
	D3120-04-26.00F32-P23	26	104	136	60	32	40	0,72	2	P284 . S-3N- ..
	D3120-04-27.00F32-P23	27	108	140	60	32	40	0,76	2	
	D3120-04-28.00F32-P23	28	112	144	60	32	40	0,80	2	
	D3120-04-29.00F32-P23	29	116	148	60	32	40	0,84	2	
	D3120-04-30.00F32-P23	30	120	152	60	32	40	0,88	2	
	D3120-04-31.00F32-P24	31	124	156	60	32	40	0,86	2	
	D3120-04-32.00F32-P24	32	128	160	60	32	40	0,91	2	
	D3120-04-33.00F32-P24	33	132	164	60	32	40	0,96	2	
	D3120-04-34.00F32-P24	34	136	168	60	32	40	1,09	2	
	D3120-04-35.00F32-P24	35	140	172	60	32	40	1,08	2	
	D3120-04-36.00F32-P24	36	144	176	60	32	40	1,15	2	P284 . S-5N- ..
	D3120-04-37.00F40-P25	37	148	188	70	40	50	1,59	2	
	D3120-04-38.00F40-P25	38	152	192	70	40	50	1,66	2	
	D3120-04-39.00F40-P25	39	156	196	70	40	50	1,74	2	
	D3120-04-40.00F40-P25	40	160	200	70	40	50	1,89	2	
	D3120-04-41.00F40-P25	41	164	204	70	40	50	1,90	2	
	D3120-04-42.00F40-P25	42	168	208	70	40	50	1,99	2	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	16–20	21–25	26–30	31–36	37–42
Clamping screw for indexable insert Tightening torque	FS1454 (Torx 8IP) 1,2 Nm	FS1456 (Torx 9IP) 2,0 Nm	FS2181 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm	FS2139 (Torx 20IP) 5,0 Nm

Accessories

D _c [mm]	16–20	21–25	26–36	37–42
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
Screwdriver	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Indexable inserts

Designation	Size	P					M			K			N		S			
		HC					HC			HC			HC		HC			
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WK40	WK40	WSP45	WSP45S	WXP40
P2840S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2840S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●● Primary application

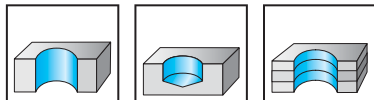
● Other application

HSS twist drills

DA110 Perform



- Available as set
- Type N



P	M	K	N	S	H	O
●	●	●	●	●	●	●

WZ90AJ

B1

Designation	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm	WZ90AJ
Parallel shank						
DA110-08-01.000U0-	1	10	34	12	1	☞
DA110-08-01.100U0-	1,1	12	36	14	1,1	☞
DA110-08-01.200U0-	1,2	14	38	16	1,2	☞
DA110-08-01.300U0-	1,3	14	38	16	1,3	☞
DA110-08-01.400U0-	1,4	15	40	18	1,4	☞
DA110-08-01.500U0-	1,5	15	40	18	1,5	☞
DA110-08-01.600U0-	1,6	17	43	20	1,6	☞
DA110-08-01.700U0-	1,7	17	43	20	1,7	☞
DA110-08-01.800U0-	1,8	19	46	22	1,8	☞
DA110-08-01.900U0-	1,9	19	46	22	1,9	☞
DA110-08-02.000U0-	2	20	49	24	2	☞
DA110-08-02.100U0-	2,1	20	49	24	2,1	☞
DA110-08-02.200U0-	2,2	23	53	27	2,2	☞
DA110-08-02.300U0-	2,3	23	53	27	2,3	☞
DA110-08-02.400U0-	2,4	26	57	30	2,4	☞
DA110-08-02.500U0-	2,5	26	57	30	2,5	☞
DA110-08-02.600U0-	2,6	26	57	30	2,6	☞
DA110-08-02.700U0-	2,7	28	61	33	2,7	☞
DA110-08-02.800U0-	2,8	28	61	33	2,8	☞
DA110-08-02.900U0-	2,9	28	61	33	2,9	☞
DA110-08-03.000U0-	3	28	61	33	3	☞
DA110-08-03.100U0-	3,1	30	65	36	3,1	☞
DA110-08-03.200U0-	3,2	30	65	36	3,2	☞
DA110-08-03.300U0-	3,3	30	65	36	3,3	☞
DA110-08-03.400U0-	3,4	33	70	39	3,4	☞
DA110-08-03.500U0-	3,5	33	70	39	3,5	☞
DA110-08-03.600U0-	3,6	33	70	39	3,6	☞
DA110-08-03.700U0-	3,7	33	70	39	3,7	☞
DA110-08-03.800U0-	3,8	36	75	43	3,8	☞
DA110-08-03.900U0-	3,9	36	75	43	3,9	☞
DA110-08-04.000U0-	4	36	75	43	4	☞
DA110-08-04.100U0-	4,1	36	75	43	4,1	☞
DA110-08-04.200U0-	4,2	36	75	43	4,2	☞
DA110-08-04.300U0-	4,3	39	80	47	4,3	☞
DA110-08-04.400U0-	4,4	39	80	47	4,4	☞
DA110-08-04.500U0-	4,5	39	80	47	4,5	☞
DA110-08-04.600U0-	4,6	39	80	47	4,6	☞
DA110-08-04.700U0-	4,7	39	80	47	4,7	☞
DA110-08-04.800U0-	4,8	44	86	52	4,8	☞
DA110-08-04.900U0-	4,9	44	86	52	4,9	☞
DA110-08-05.000U0-	5	44	86	52	5	☞
DA110-08-05.100U0-	5,1	44	86	52	5,1	☞
DA110-08-05.200U0-	5,2	44	86	52	5,2	☞
DA110-08-05.300U0-	5,3	44	86	52	5,3	☞
DA110-08-05.400U0-	5,4	48	93	57	5,4	☞
DA110-08-05.500U0-	5,5	48	93	57	5,5	☞
DA110-08-05.600U0-	5,6	48	93	57	5,6	☞

Ordering example for the WZ90AJ grade: DA110-08-01.000U0-WZ90AJ

Continued

☞ / ★ New addition to the product range

Continued

	Designation	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm	WZ90AJ
	DA110-08-05.700U0-	5,7	48	93	57	5,7	
	DA110-08-05.800U0-	5,8	48	93	57	5,8	
	DA110-08-05.900U0-	5,9	48	93	57	5,9	
	DA110-08-06.000U0-	6	48	93	57	6	
	DA110-08-06.100U0-	6,1	52	101	63	6,1	
	DA110-08-06.200U0-	6,2	52	101	63	6,2	
	DA110-08-06.300U0-	6,3	52	101	63	6,3	
	DA110-08-06.400U0-	6,4	52	101	63	6,4	
	DA110-08-06.500U0-	6,5	52	101	63	6,5	
	DA110-08-06.600U0-	6,6	52	101	63	6,6	
	DA110-08-06.700U0-	6,7	52	101	63	6,7	
	DA110-08-06.800U0-	6,8	57	109	69	6,8	
	DA110-08-06.900U0-	6,9	57	109	69	6,9	
	DA110-08-07.000U0-	7	57	109	69	7	
	DA110-08-07.100U0-	7,1	57	109	69	7,1	
	DA110-08-07.200U0-	7,2	57	109	69	7,2	
	DA110-08-07.300U0-	7,3	57	109	69	7,3	
	DA110-08-07.400U0-	7,4	57	109	69	7,4	
	DA110-08-07.500U0-	7,5	57	109	69	7,5	
	DA110-08-07.600U0-	7,6	62	117	75	7,6	
	DA110-08-07.700U0-	7,7	62	117	75	7,7	
	DA110-08-07.800U0-	7,8	62	117	75	7,8	
	DA110-08-07.900U0-	7,9	62	117	75	7,9	
	DA110-08-08.000U0-	8	62	117	75	8	
	DA110-08-08.100U0-	8,1	62	117	75	8,1	
	DA110-08-08.200U0-	8,2	62	117	75	8,2	
	DA110-08-08.300U0-	8,3	62	117	75	8,3	
	DA110-08-08.400U0-	8,4	62	117	75	8,4	
	DA110-08-08.500U0-	8,5	62	117	75	8,5	
	DA110-08-08.600U0-	8,6	66	125	81	8,6	
	DA110-08-08.700U0-	8,7	66	125	81	8,7	
	DA110-08-08.800U0-	8,8	66	125	81	8,8	
	DA110-08-08.900U0-	8,9	66	125	81	8,9	
	DA110-08-09.000U0-	9	66	125	81	9	
	DA110-08-09.100U0-	9,1	66	125	81	9,1	
	DA110-08-09.200U0-	9,2	66	125	81	9,2	
	DA110-08-09.300U0-	9,3	66	125	81	9,3	
	DA110-08-09.400U0-	9,4	66	125	81	9,4	
	DA110-08-09.500U0-	9,5	66	125	81	9,5	
	DA110-08-09.600U0-	9,6	71	133	87	9,6	
DA110-08-09.700U0-	9,7	71	133	87	9,7		
DA110-08-09.800U0-	9,8	71	133	87	9,8		
DA110-08-09.900U0-	9,9	71	133	87	9,9		
DA110-08-10.000U0-	10	71	133	87	10		
DA110-08-10.100U0-	10,1	71	133	87	10,1		
DA110-08-10.200U0-	10,2	71	133	87	10,2		
DA110-08-10.300U0-	10,3	71	133	87	10,3		
DA110-08-10.400U0-	10,4	71	133	87	10,4		
DA110-08-10.500U0-	10,5	71	133	87	10,5		
DA110-08-10.700U0-	10,7	76	142	94	10,7		
DA110-08-10.800U0-	10,8	76	142	94	10,8		
DA110-08-11.000U0-	11	76	142	94	11		
DA110-08-11.100U0-	11,1	76	142	94	11,1		
DA110-08-11.300U0-	11,3	76	142	94	11,3		
DA110-08-11.500U0-	11,5	76	142	94	11,5		
DA110-08-11.800U0-	11,8	76	142	94	11,8		
DA110-08-12.000U0-	12	87	151	101	12		

Ordering example for the WZ90AJ grade: DA110-08-01.000U0-WZ90AJ

Continued

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

•• Primary application

• Other application

Continued

	Designation	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm	WZ90AJ
	DA110-08-12.100U0-	12,1	87	151	101	12,1	
	DA110-08-12.200U0-	12,2	87	151	101	12,2	
	DA110-08-12.500U0-	12,5	87	151	101	12,5	
	DA110-08-13.000U0-	13	87	151	101	13	
	DA110-08-13.500U0-	13,5	94	160	108	13,5	
	DA110-08-13.700U0-	13,7	94	160	108	13,7	
	DA110-08-14.000U0-	14	94	160	108	14	
	DA110-08-14.500U0-	14,5	99	169	114	14,5	
	DA110-08-15.000U0-	15	99	169	114	15	
	DA110-08-15.500U0-	15,5	104	178	120	15,5	
	DA110-08-16.000U0-	16	104	178	120	16	

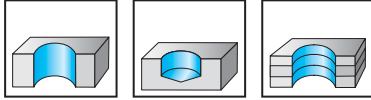
Ordering example for the WZ90AJ grade: DA110-08-01.000U0-WZ90AJ

B1


HSS – DA110 Perform twist drill – set
DA110-SET-1-10.5-WZ90AJ
DA110-SET-1-13-WZ90AJ




– Type N



	P	M	K	N	S	H	O
WZ90AJ	●●	●	●●	●			

Designation	Sets Ø mm	Including core-hole drill	Pitch	Quantity
 DA110-SET-1-10.5-WZ90AJ	1,0–10,5	3,3	0,5	24
		4,2		
		6,8		
		10,2		

Designation	Sets Ø mm	Pitch	Quantity
 DA110-SET-1-13-WZ90AJ	1,0–13,0	0,5	25

For the dimensions for the DA110 Perform twist drill, please see the ordering page.

B1

Cutting data

Solid carbide drills

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

- = Wet machining (E = emulsion, O = oil)
- = Dry machining is possible (M = MQL, L = dry)
The cutting data must be selected from Walter GPS
- v_c = Cutting speed
- VRR = Feed rate chart from page 169 onwards
- VCRR = v_c rate chart from page 168 onwards

* The classification of the machining groups can be found in the material group comparison table

Drilling depth	3 × Dc			
Designation	DC160 Advance			
Standard	DIN 6537 short			
Cooling	External coolant			
Grade	WJ30ET			
Dia. range [mm]	3–20			

B1

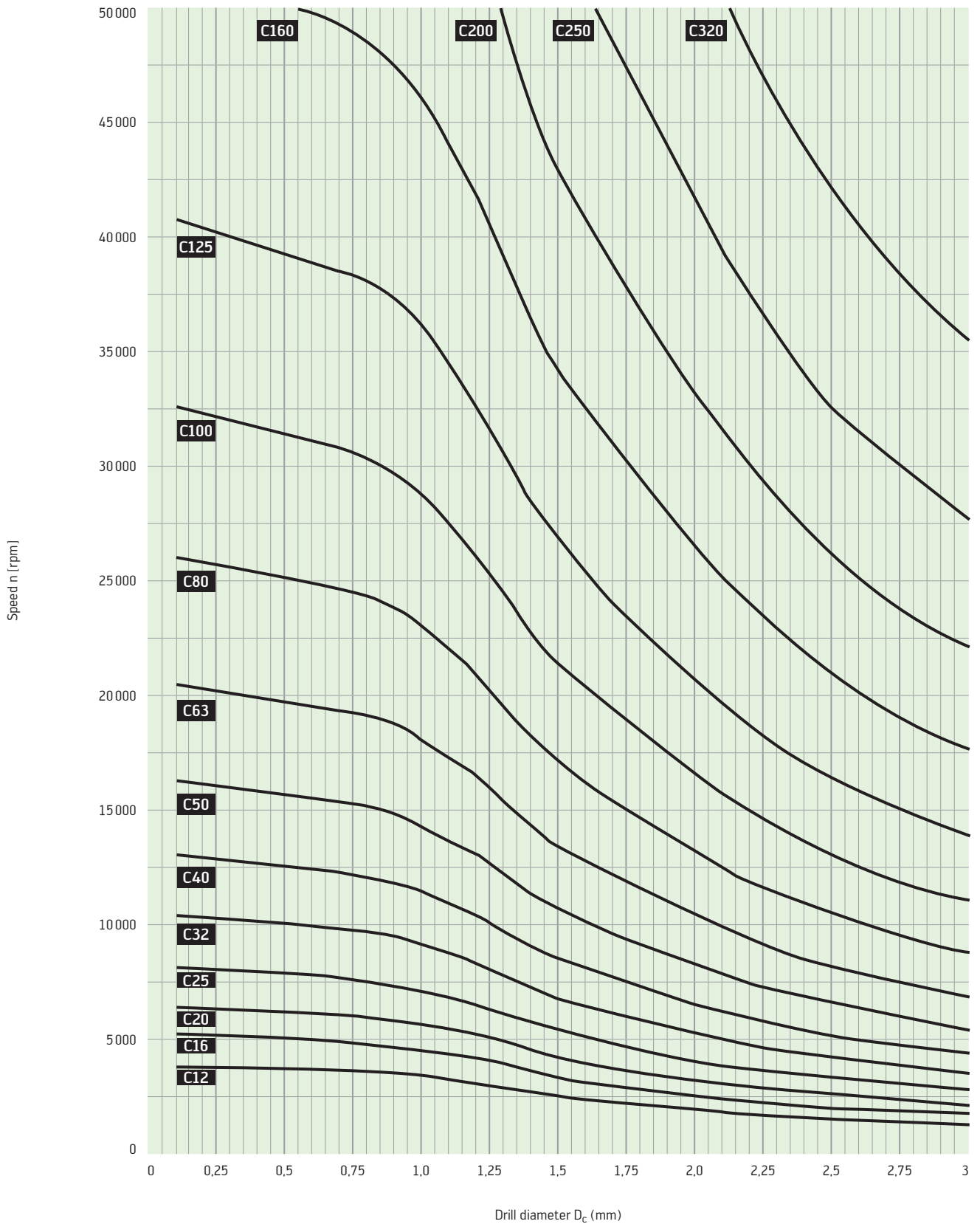
Material group	Overview of the main material groups and code letters			Brinell hardness HB	Tensile strength R_m N/mm ²	Machining group *	vc	VRR		

P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	110	12	EO	
		C > 0.25... ≤ 0.55%	Annealed	190	640	P2	121	12	EO	
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	P3	110	12	EO	
		C > 0.55%	Annealed	190	640	P4	110	10	EO	
		C > 0.55%	Heat-treated	300	1010	P5	78	10	EO	
		Free-machining steel (short-chipping)	Annealed	220	750	P6	110	12	EO	
P	Low-alloy steel	Annealed	175	590	P7	121	12	EO		
		Heat-treated	285	960	P8	69	10	EO		
		Heat-treated	380	1280	P9	55	7	EO		
		Heat-treated	430	1480	P10	44	5	EO		
P	High-alloy steel and high-alloy tool steel	Annealed	200	680	P11	78	9	EO		
		Hardened and tempered	300	1010	P12	78	10	EO		
		Hardened and tempered	380	1280	P13	44	7	EO		
P	Stainless steel	Ferritic/martensitic, annealed	200	680	P14	99	12	EO		
		Martensitic, heat-treated	330	1110	P15	55	10	EO		
M	Stainless steel	Austenitic, quench hardened	200	680	M1					
		Austenitic, precipitation hardened (PH)	300	1010	M2					
		Austenitic/ferritic, duplex	230	780	M3					
K	Malleable cast iron	Ferritic	200	400	K1	88	16	EO		
		Pearlitic	260	700	K2	88	12	EO		
	Grey cast iron	Low tensile strength	180	200	K3	110	16	EO		
		High tensile strength/austenitic	245	350	K4	88	16	EO		
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	110	16	EO		
		Pearlitic	265	700	K6	88	12	EO		
	GGV (CGI)	230	400	K7	99	2	EO			
N	Wrought aluminium alloys	Not hardenable	30	-	N1					
		Hardenable, hardened	100	340	N2					
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3	225	16	EO		
		≤ 12% Si, hardenable, hardened	90	310	N4	225	16	EO		
	Magnesium alloys	> 12% Si, not hardenable	130	450	N5	190	12	EO		
			70	250	N6					
N	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100	340	N7	185	6	EO		
		Brass, bronze, red brass	90	310	N8	165	10	EO		
		Cu alloys, short-chipping	110	380	N9	205	16	EO		
		High-tensile, Ampco	300	1010	N10	68	5	EO		
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1				
			Hardened	280	940	S2				
		Ni- or Co-based	Annealed	250	840	S3				
			Hardened	350	1180	S4				
			Cast	320	1080	S5				
	Titanium alloys	Pure titanium	200	680	S6	35	5	EO		
	α and β alloys, hardened	375	1260	S7	27	3	EO			
	β alloys	410	1400	S8	22	3	EO			
	Tungsten alloys	300	1010	S9						
	Molybdenum alloys	300	1010	S10						
H	Hardened steel	Hardened and tempered	50 HRC	-	H1	30	3	OE		
		Hardened and tempered	55 HRC	-	H2					
		Hardened and tempered	60 HRC	-	H3					
	Hardened cast iron	Hardened and tempered	55 HRC	-	H4					
O	Thermoplastics	Without abrasive fillers			O1	110	16	EO		
	Thermosets	Without abrasive fillers			O2				L	
	Plastic, glass-fibre-reinforced	GFRP			O3				L	
	Plastic, carbon-fibre-reinforced	CFRP			O4				L	
	Plastic, aramid-fibre-reinforced	AFRP			O5				L	
	Graphite (technical)		80 Shore		O6				L	

5 × D _c DB130 Advance					5 × D _c DC150 Perform					5 × D _c DC160 Advance					8 × D _c DC160 Advance				
DIN 1899 External coolant WJ30UU					DIN 6537 long External coolant WJ30TA					DIN 6537 long Internal coolant WJ30ET					Walter Internal coolant WJ30ET				
0,1–1,45					3–20					3–20					3–20				
VCRR	VRR			vc	VRR			vc	VRR			vc	VRR						
C63	5	EO		81	12	EO		130	12	EO		124	12	EO					
C63	6	EO		72	10	EO		130	12	EO		124	10	EO					
C63	6	EO		72	10	EO		130	12	EO		124	10	EO					
C50	5	EO		65	9	EO		130	10	EO		124	10	EO					
C40	5	EO		51	8	EO		108	10	EO		103	10	EO					
C63	6	EO		81	12	EO		151	12	EO		144	12	EO					
C63	6	EO		72	12	EO		130	12	EO	M	124	12	EO	M				
C40	5	EO		45	8	EO		97	10	EO	M	93	10	EO	M				
C25	4	EO		33	6	EO		56	8	EO	M	54	8	EO	M				
C20	3	EO		26	4	EO		60	6	EO	M	57	6	EO	M				
C32	4	EO		57	9	EO		85	10	EO		81	9	EO					
C40	5	EO		51	8	EO		108	10	EO		103	10	EO					
C25	4	EO		38	6	EO		50	8	EO		48	7	EO					
C50	6	EO		65	12	EO		118	12	EO		113	12	EO					
C40	5	EO		51	8	EO		61	9	EO		58	9	EO					
C12	3	EO						53	6	EO		51	6	EO					
C20	3	EO		36	5	EO		47	6	EO		45	6	EO					
C12	2	EO						38	4	EO		37	4	EO					
C50	6	EO		65	16	EO		108	16	EO	M	103	16	EO	M				
C40	4	EO		51	12	EO		98	16	EO	M	94	16	EO	M				
C63	7	EO		81	16	EO		130	16	EO	M	124	16	EO	M				
C50	6	EO		65	16	EO		108	16	EO	M	103	16	EO	M				
C63	7	EO		72	16	EO		151	16	EO	M	144	16	EO	M				
C40	4	EO		51	12	EO		98	16	EO	M	94	16	EO	M				
C50	5	EO		57	12	EO		108	16	EO	M	103	16	EO	M				
C160	9	EO	M	225	10	EO	M	400	16	EO		380	16	EO					
C160	9	EO	M	225	10	EO	M	400	16	EO		380	16	EO					
C125	9	EO	M	200	16	EO	M	250	16	EO	M	238	16	EO	M				
C100	9	EO	M	180	16	EO	M	220	16	EO	M	209	16	EO	M				
C63	8	EO	M	144	12	EO	M	180	16	EO	M	171	16	EO	M				
C125	9		ML																
C100	6	EO		144	6	EO		180	8	EO		171	8	EO					
C80	8	EO		126	10	EO		160	10	EO		152	10	EO					
C80	8	EO		162	16	EO		180	12	EO		171	12	EO					
C32	3	EO		60	5	EO		71	6	EO		68	6	EO					
C12	2	EO						42	4	EO		40	4	EO					
								29	4	EO		28	4	EO					
C12	2	EO						33	5	EO		32	5	EO					
								13	4	EO		13	4	EO					
								27	4	EO		26	4	EO					
C20	3	EO		30	5	EO		52	6	EO		50	6	EO					
C12	2	EO		20	3	EO		37	4	EO		36	4	EO					
C12	1	EO		18	3	EO		33	4	EO		32	4	EO					
								46	5	EO		44	5	EO					
								46	5	EO		44	5	EO					
				20	3	OE		42	3	OE	M	40	3	OE					
C25	12	EO		81	16	EO		110	16	EO		105	16	EO					
C40	8		L																
C40	8		L																
C40	8		L																
C40	8		L																
C40	8		L																

VCRR: Speed diagram
Solid carbide micro drills

B1



VRR: Feed rate charts for solid carbide and HSS drilling and reaming tools

VRR	Feed f [mm] for diameter [mm]															
	0,05	0,06	0,08	0,1	0,12	0,15	0,2	0,25	0,4	0,5	0,6	0,8	1	1,2	1,5	2
1	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,002	0,002	0,003	0,003	0,004	0,005	0,007
2	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,002	0,003	0,003	0,004	0,005	0,007	0,008	0,010	0,013
3	0,001	0,001	0,001	0,001	0,001	0,002	0,002	0,003	0,004	0,005	0,006	0,008	0,010	0,012	0,015	0,020
4	0,001	0,001	0,001	0,001	0,002	0,002	0,003	0,003	0,005	0,007	0,008	0,011	0,013	0,016	0,020	0,027
5	0,001	0,001	0,001	0,002	0,002	0,003	0,003	0,004	0,007	0,008	0,010	0,013	0,017	0,020	0,025	0,033
6	0,001	0,001	0,002	0,002	0,002	0,003	0,004	0,005	0,008	0,010	0,012	0,016	0,020	0,024	0,030	0,040
7	0,001	0,001	0,002	0,002	0,003	0,004	0,005	0,006	0,009	0,012	0,014	0,019	0,023	0,028	0,035	0,047
8	0,001	0,002	0,002	0,003	0,003	0,004	0,005	0,007	0,011	0,013	0,016	0,021	0,027	0,032	0,040	0,053
9	0,002	0,002	0,002	0,003	0,004	0,005	0,006	0,008	0,012	0,015	0,018	0,024	0,030	0,036	0,045	0,060
10	0,002	0,002	0,003	0,003	0,004	0,005	0,007	0,008	0,013	0,017	0,020	0,027	0,033	0,040	0,050	0,067
12	0,002	0,002	0,003	0,004	0,005	0,006	0,008	0,010	0,016	0,020	0,024	0,032	0,040	0,048	0,060	0,080
16	0,003	0,003	0,004	0,005	0,006	0,008	0,011	0,013	0,021	0,027	0,032	0,043	0,053	0,064	0,080	0,11
20	0,003	0,004	0,005	0,007	0,008	0,010	0,013	0,017	0,027	0,033	0,040	0,053	0,067	0,080	0,10	0,13
25	0,004	0,005	0,007	0,008	0,010	0,013	0,017	0,021	0,033	0,042	0,050	0,067	0,083	0,100	0,125	0,167
30	0,005	0,006	0,008	0,010	0,012	0,015	0,020	0,025	0,040	0,050	0,060	0,080	0,100	0,120	0,150	0,200







VRR	Feed f [mm] for diameter [mm]															
	2,5	4	5	6	8	10	12	15	20	25	40	50	60	80	100	
1	0,008	0,013	0,017	0,018	0,021	0,024	0,026	0,029	0,033	0,037	0,047	0,053	0,058	0,067	0,075	
2	0,017	0,027	0,033	0,037	0,042	0,047	0,052	0,058	0,067	0,075	0,094	0,11	0,12	0,13	0,15	
3	0,025	0,040	0,050	0,055	0,063	0,071	0,077	0,087	0,10	0,11	0,14	0,16	0,17	0,20	0,22	
4	0,033	0,053	0,067	0,073	0,084	0,094	0,10	0,12	0,13	0,15	0,19	0,21	0,23	0,27	0,30	
5	0,042	0,067	0,083	0,091	0,11	0,12	0,13	0,14	0,17	0,19	0,24	0,26	0,29	0,33	0,37	
6	0,050	0,080	0,10	0,11	0,13	0,14	0,15	0,17	0,20	0,22	0,28	0,32	0,35	0,40	0,45	
7	0,058	0,093	0,12	0,13	0,15	0,16	0,18	0,20	0,23	0,26	0,33	0,37	0,40	0,47	0,52	
8	0,067	0,11	0,13	0,15	0,17	0,19	0,21	0,23	0,27	0,30	0,38	0,42	0,46	0,53	0,60	
9	0,075	0,12	0,15	0,16	0,19	0,21	0,23	0,26	0,30	0,34	0,42	0,47	0,52	0,60	0,67	
10	0,083	0,13	0,17	0,18	0,21	0,24	0,26	0,29	0,33	0,37	0,47	0,53	0,58	0,67	0,75	
12	0,10	0,16	0,20	0,22	0,25	0,28	0,31	0,35	0,40	0,45	0,57	0,63	0,69	0,80	0,89	
16	0,13	0,21	0,27	0,29	0,34	0,38	0,41	0,46	0,53	0,60	0,75	0,84	0,92	1,07	1,19	
20	0,17	0,27	0,33	0,37	0,42	0,47	0,52	0,58	0,67	0,75	0,94	1,05	1,15	1,33	1,49	
25	0,21	0,33	0,42	0,46	0,53	0,59	0,65	0,72	0,83	0,93	1,18	1,32	1,44	1,67	1,86	
30	0,25	0,40	0,50	0,55	0,63	0,71	0,77	0,87	1,00	1,12	1,41	1,58	1,73	2,00	2,24	

Cutting data for D4140

Material group	= Wet machining (E = emulsion, O = oil) = Dry machining is possible (M = MQL, L = dry) The cutting data must be selected from Walter GPS v _c = Cutting speed VRR = Feed rate chart from page 177 onwards * The classification of the machining groups can be found in the material group comparison table		Drilling depth		3 × D _c											
			Designation		D4140											
			Diameter range		12–31											
Overview of the main material groups and code letters			Binnell hardness HB	Tensile strength R _m N/mm ²	Machining group *	 P6001 WPP45C P6003 WMP35										
						vc	VRR			vc	VRR					
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	110	7	EO			110	7	EO		
		C > 0.25 ... ≤ 0.55%	Annealed	190	640	P2	110	7	EO			110	7	EO		
		C > 0.25 ... ≤ 0.55%	Heat-treated	210	710	P3	100	7	EO			100	7	EO		
		C > 0.55%	Annealed	190	640	P4	100	6	EO			100	6	EO		
		C > 0.55%	Heat-treated	300	1010	P5	80	7	EO			80	7	EO		
		Free-machining steel (short-chipping)	Annealed	220	750	P6	110	7	EO			110	7	EO		
		Low-alloy steel	Annealed	175	590	P7	110	7	EO			110	7	EO		
			Heat-treated	285	960	P8	71	7	EO			71	7	EO		
			Heat-treated	380	1280	P9	32	3	OE			32	3	OE		
		High-alloy steel and high-alloy tool steel	Heat-treated	430	1480	P10										
	Annealed		200	680	P11	80	6	EO			80	6	EO			
	Hardened and tempered		300	1010	P12	80	7	EO			80	7	EO			
	Stainless steel	Hardened and tempered	380	1280	P13	63	5	EO			63	5	EO			
		Ferritic/martensitic, annealed	200	680	P14	90	7	EO			90	7	EO			
	Stainless steel	Martensitic, heat-treated	330	1110	P15	71	7	EO			71	7	EO			
		Austenitic, quench hardened	200	680	M1						63	4	EO			
M	Stainless steel	Austenitic, precipitation hardened (PH)	300	1010	M2											
	Stainless steel	Austenitic/ferritic, duplex	230	780	M3						28	5	EO			
K	Malleable cast iron	Ferritic	200	400	K1	110	8	EO			110	8	EO			
		Pearlitic	260	700	K2	110	8	EO			110	8	EO			
	Grey cast iron	Low tensile strength	180	200	K3	140	9	EO			140	9	EO			
		High tensile strength/austenitic	245	350	K4	120	9	EO			120	9	EO			
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	120	8	EO			120	8	EO			
		Pearlitic	265	700	K6	110	8	EO			110	8	EO			
	GGV (CGI)		230	400	K7	110	7	EO			110	7	EO			
N	Wrought aluminium alloys	Not hardenable	30	–	N1											
		Hardenable, hardened	100	340	N2											
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3											
		≤ 12% Si, hardenable, hardened	90	310	N4											
		> 12% Si, not hardenable	130	450	N5											
	Magnesium alloys		70	250	N6											
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100	340	N7											
Brass, bronze, red brass		90	310	N8												
Cu alloys, short-chipping		110	380	N9												
	High-tensile, Ampco	300	1010	N10												
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1						50	3	EO		
			Hardened	280	940	S2										
		Ni- or Co-based	Annealed	250	840	S3							28	5	EO	
			Hardened	350	1180	S4							11	2	EO	
			Cast	320	1080	S5							18	5	EO	
	Titanium alloys	Pure titanium	200	680	S6							63	4	EO		
		α and β alloys, hardened	375	1260	S7							56	4	EO		
Tungsten alloys	β alloys	410	1400	S8							56	3	EO			
Molybdenum alloys		300	1010	S9							18	5	EO			
		300	1010	S10							18	5	EO			
H	Hardened steel	Hardened and tempered	50 HRC	–	H1											
		Hardened and tempered	55 HRC	–	H2											
		Hardened and tempered	60 HRC	–	H3											
	Hardened cast iron	Hardened and tempered	55 HRC	–	H4											
O	Thermoplastics	Without abrasive fillers			O1											
	Thermosets	Without abrasive fillers			O2											
	Plastic, glass-fibre-reinforced	GFRP			O3											
	Plastic, carbon-fibre-reinforced	CFRP			O4											
	Plastic, aramid-fibre-reinforced	AFRP			O5											
	Graphite (technical)		80 Shore			O6										

B2

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

3 × D _c														5 × D _c																											
D4140														D4140																											
12–31														12–31																											
 P6004 WXK25							 P6005 WKK45C							 P6001 WPP45C							 P6003 WMP35							 P6004 WXK25							 P6005 WKK45C						
vc	VRR			vc	VRR			vc	VRR			vc	VRR			vc	VRR			vc	VRR																				
				100	7		EO	100	7		EO	100	7		EO	100	7		EO	100	7		EO	100	7		EO														
				100	7		EO	100	7		EO	100	7		EO	100	7		EO	100	7		EO	100	7		EO														
				90	6		EO	90	6		EO	90	6		EO	90	6		EO	90	6		EO	90	6		EO														
				71	7		EO	71	7		EO	71	7		EO	71	7		EO	71	7		EO	71	7		EO														
				100	7		EO	100	7		EO	100	7		EO	100	7		EO	100	7		EO	100	7		EO														
				63	7		EO	63	7		EO	63	7		EO	63	7		EO	63	7		EO	63	7		EO														
				32	3		OE	32	3		OE	32	3		OE	32	3		OE	32	3		OE	32	3		OE														
				80	6		EO	80	6		EO	80	6		EO	80	6		EO	80	6		EO	80	6		EO														
				71	7		EO	71	7		EO	71	7		EO	71	7		EO	71	7		EO	71	7		EO														
				63	5		EO	63	5		EO	63	5		EO	63	5		EO	63	5		EO	63	5		EO														
				90	7		EO	90	7		EO	90	7		EO	90	7		EO	90	7		EO	90	7		EO														
				71	7		EO	71	7		EO	71	7		EO	71	7		EO	71	7		EO	71	7		EO														
												63	4		EO																										
												28	5		EO																										
				110	8		EO	110	8		EO	110	8		EO	110	8		EO	110	8		EO	110	8		EO														
				100	8		EO	110	8		EO	110	8		EO	110	8		EO	110	8		EO	100	8		EO														
				160	9		EO	140	9		EO	140	9		EO	140	9		EO	160	9		EO	160	9		EO														
				140	9		EO	120	9		EO	120	9		EO	120	9		EO	140	9		EO	140	9		EO														
				120	8		EO	120	8		EO	120	8		EO	120	8		EO	120	8		EO	120	8		EO														
				100	8		EO	110	8		EO	110	8		EO	110	8		EO	100	8		EO	100	8		EO														
				100	7		EO	110	7		EO	110	7		EO	110	7		EO	100	7		EO	100	7		EO														
	250	16					EO									250	16		EO																						
	250	16					EO									250	16		EO																						
	400	9					EO									360	9		EO																						
	320	9					EO									320	9		EO																						
	200	9					EO									200	9		EO																						
	110	4					EO									110	4		EO																						
	220	10					EO									220	10		EO																						
	220	10					EO									220	10		EO																						
	80	5					EO									71	5		EO																						
												50	3		EO																										
												25	5		EO																										
												10	2		EO																										
												18	5		EO																										
												63	4		EO																										
												50	4		EO																										
												50	3		EO																										
												18	5		EO																										
												18	5		EO																										

HC = Coated carbide

B2

Cutting data for D4140

Material group	= Wet machining (E = emulsion, O = oil) = Dry machining is possible (M = MQL, L = dry) The cutting data must be selected from Walter GPS v _c = Cutting speed VRR = Feed rate chart from page 177 onwards * The classification of the machining groups can be found in the material group comparison table		Drilling depth		7 × D _c											
			Designation		D4140											
			Diameter range		12–31											
Overview of the main material groups and code letters			Binnell hardness HB	Tensile strength R _m N/mm ²	Machining group *	 P6001 WPP45C P6003 WMP35										
						vc	VRR			vc	VRR					
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	100	7	EO			100	7	EO		
		C > 0.25 ... ≤ 0.55%	Annealed	190	640	P2	100	7	EO			100	7	EO		
		C > 0.25 ... ≤ 0.55%	Heat-treated	210	710	P3	100	7	EO			100	7	EO		
		C > 0.55%	Annealed	190	640	P4	90	6	EO			90	6	EO		
		C > 0.55%	Heat-treated	300	1010	P5	71	7	EO			71	7	EO		
		Free-machining steel (short-chipping)	Annealed	220	750	P6	100	7	EO			100	7	EO		
	Low-alloy steel		Annealed	175	590	P7	100	7	EO			100	7	EO		
			Heat-treated	285	960	P8	63	7	EO			63	7	EO		
			Heat-treated	380	1280	P9	32	3	OE			32	3	OE		
			Heat-treated	430	1480	P10										
High-alloy steel and high-alloy tool steel		Annealed	200	680	P11	80	6	EO			80	6	EO			
		Hardened and tempered	300	1010	P12	71	7	EO			71	7	EO			
		Hardened and tempered	380	1280	P13	63	5	EO			63	5	EO			
Stainless steel		Ferritic/martensitic, annealed	200	680	P14	90	7	EO			90	7	EO			
		Martensitic, heat-treated	330	1110	P15	71	7	EO			71	7	EO			
M	Stainless steel		Austenitic, quench hardened	200	680	M1						63	4	EO		
			Austenitic, precipitation hardened (PH)	300	1010	M2										
			Austenitic/ferritic, duplex	230	780	M3										
K	Malleable cast iron		Ferritic	200	400	K1	110	8	EO			110	8	EO		
			Pearlitic	260	700	K2	110	8	EO			110	8	EO		
	Grey cast iron		Low tensile strength	180	200	K3	120	9	EO			120	9	EO		
			High tensile strength/austenitic	245	350	K4	120	9	EO			120	9	EO		
	Cast iron with spheroidal graphite		Ferritic	155	400	K5	120	8	EO			120	8	EO		
			Pearlitic	265	700	K6	110	8	EO			110	8	EO		
		GGV (CGI)			230	400	K7	110	7	EO			110	7	EO	
N	Wrought aluminium alloys		Not hardenable	30	–	N1										
			Hardenable, hardened	100	340	N2										
	Cast aluminium alloys		≤ 12% Si, not hardenable	75	260	N3										
			≤ 12% Si, hardenable, hardened	90	310	N4										
	Magnesium alloys		> 12% Si, not hardenable	130	450	N5										
				70	250	N6										
Copper and copper alloys (bronze/brass)		Unalloyed, electrolytic copper	100	340	N7											
		Brass, bronze, red brass	90	310	N8											
		Cu alloys, short-chipping	110	380	N9											
		High-tensile, Ampco	300	1010	N10											
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1						50	3	EO		
			Hardened	280	940	S2										
		Ni- or Co-based	Annealed	250	840	S3							25	5	EO	
			Hardened	350	1180	S4							10	2	EO	
			Cast	320	1080	S5							18	5	EO	
	Titanium alloys		Pure titanium	200	680	S6						63	4	EO		
			α and β alloys, hardened	375	1260	S7						50	4	EO		
		β alloys	410	1400	S8						50	3	EO			
	Tungsten alloys			300	1010	S9					18	5	EO			
	Molybdenum alloys			300	1010	S10					18	5	EO			
H	Hardened steel		Hardened and tempered	50 HRC	–	H1										
			Hardened and tempered	55 HRC	–	H2										
			Hardened and tempered	60 HRC	–	H3										
		Hardened cast iron		Hardened and tempered	55 HRC	–	H4									
O	Thermoplastics		Without abrasive fillers			O1										
	Thermosets		Without abrasive fillers			O2										
	Plastic, glass-fibre-reinforced		GFRP			O3										
	Plastic, carbon-fibre-reinforced		CFRP			O4										
	Plastic, aramid-fibre-reinforced		AFRP			O5										
	Graphite (technical)			80 Shore			O6									

B2

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

7 × D _c																10 × D _c															
D4140																D4140															
12–31																18–24															
vc	VRR			vc	VRR			vc	VRR			vc	VRR			vc	VRR			vc	VRR										
								90	7	EO		90	7	EO																	
								90	7	EO		90	7	EO																	
								80	7	EO		80	7	EO																	
								80	6	EO		80	6	EO																	
								63	7	EO		63	7	EO																	
								90	7	EO		90	7	EO																	
												90	7	EO																	
								56	7	EO		56	7	EO																	
								32	3	OE		32	3	OE																	
								63	6	EO		63	6	EO																	
								63	7	EO		63	7	EO																	
								63	5	EO		63	5	EO																	
								71	7	EO		71	7	EO																	
								56	7	EO		56	7	EO																	
												50	4	EO																	
				110	8	EO		100	8	EO		100	8	EO					100	8	EO										
				100	8	EO		100	8	EO		100	8	EO					90	8	EO										
				140	9	EO		120	9	EO		120	9	EO					140	9	EO										
				140	9	EO		110	9	EO		110	9	EO					120	9	EO										
				120	8	EO		110	8	EO		110	8	EO					110	8	EO										
				100	8	EO		100	8	EO		100	8	EO					90	8	EO										
				100	7	EO		100	7	EO		100	7	EO					90	7	EO										
	220	16	EO												160	16	EO														
	220	16	EO												160	16	EO														
	360	9	EO	M																											
	280	9	EO	M											200	9	EO	M													
	200	9	EO	M											180	9	EO	M													
	110	4	EO												100	4	EO														
	220	10	EO												200	10	EO														
	220	10	EO												200	10	EO														
	71	5	EO												63	5	EO														
															40	3	EO														
															22	5	EO														
															9	2	EO														
															14	5	EO														
															50	4	EO														
															45	4	EO														
															45	3	EO														
															14	5	EO														
															14	5	EO														

B2

Cutting data for D3120

Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R _m N/mm ²	Machining group *		Indexable insert geometry					
							Starting values for feed f [mm/rev]					
							A 57					
							Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	
							D _c [mm]					
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	●●	0,05	0,06	0,06	0,09	0,12
		C > 0.25 ... ≤ 0.55%	Annealed	190	640	P2	●●	0,07	0,09	0,10	0,13	0,18
		C > 0.25 ... ≤ 0.55%	Heat-treated	210	710	P3	●●	0,07	0,09	0,10	0,13	0,18
		C > 0.55%	Annealed	190	640	P4	●●	0,07	0,09	0,10	0,13	0,18
		C > 0.55%	Heat-treated	300	1010	P5	●●	0,07	0,09	0,10	0,13	0,18
		Free-machining steel (short-chipping)	Annealed	220	750	P6	●● ●	0,07	0,09	0,10	0,13	0,18
		Low-alloy steel	Annealed	175	590	P7	●●	0,08	0,10	0,12	0,15	0,20
			Heat-treated	285	960	P8	●●	0,07	0,09	0,10	0,13	0,15
			Heat-treated	380	1280	P9	●●	0,07	0,09	0,10	0,13	0,15
			Heat-treated	430	1480	P10	●●	0,05	0,06	0,06	0,09	0,12
		High-alloy steel and high-alloy tool steel	Annealed	200	680	P11	●●	0,08	0,10	0,12	0,15	0,18
			Hardened and tempered	300	1010	P12	●●	0,07	0,09	0,10	0,13	0,15
			Hardened and tempered	380	1280	P13	●●	0,06	0,08	0,09	0,12	0,14
		Stainless steel	Ferritic/martensitic, annealed	200	680	P14	●●	0,07	0,09	0,10	0,13	0,15
			Martensitic, heat-treated	330	1110	P15	●●	0,06	0,08	0,09	0,12	0,14
M	Stainless steel	Austenitic, quench hardened	200	680	M1	●●	0,06	0,07	0,08	0,10	0,13	
		Austenitic, precipitation hardened (PH)	300	1010	M2	●●	0,06	0,07	0,08	0,10	0,13	
		Austenitic/ferritic, duplex	230	780	M3	●●	0,06	0,07	0,08	0,10	0,13	
K	Malleable cast iron	Ferritic	200	400	K1	●● ●	0,09	0,12	0,14	0,17	0,22	
		Pearlitic	260	700	K2	●● ●	0,07	0,09	0,11	0,14	0,19	
	Grey cast iron	Low tensile strength	180	200	K3	●● ●	0,10	0,13	0,15	0,18	0,23	
		High tensile strength/austenitic	245	350	K4	●● ●	0,08	0,10	0,12	0,15	0,20	
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	●● ●	0,10	0,13	0,15	0,18	0,23	
		Pearlitic	265	700	K6	●●	0,08	0,10	0,12	0,18	0,23	
	GGV (CGI)	230	400	K7	●● ●	0,09	0,12	0,14	0,17	0,22		
N	Wrought aluminium alloys	Not hardenable	30	-	N1							
		Hardenable, hardened	100	340	N2	●●						
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3	●●						
		≤ 12% Si, hardenable, hardened	90	310	N4	●●						
		> 12% Si, not hardenable	130	450	N5	●● ●						
	Magnesium alloys		70	250	N6	●●						
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7						
Brass, bronze, red brass			90	310	N8	●●						
Cu alloys, short-chipping			110	380	N9	●● ●						
High-tensile, Ampco			300	1010	N10	●● ●	0,06	0,07	0,08	0,10	0,13	
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	●●					
			Hardened	280	940	S2	●●					
		Ni- or Co-based	Annealed	250	840	S3	●●					
			Hardened	350	1180	S4	●●					
		Cast	320	1080	S5	●●						
	Titanium alloys	Pure titanium	200	680	S6							
	α and β alloys, hardened	375	1260	S7	●●							
	β alloys	410	1400	S8	●●							
	Tungsten alloys		300	1010	S9	●●	0,05	0,06	0,06	0,09	0,11	
	Molybdenum alloys		300	1010	S10	●●	0,05	0,06	0,06	0,09	0,11	
H	Hardened steel	Hardened and tempered	50 HRC	-	H1	●●	0,05	0,06	0,06	0,09	0,10	
		Hardened and tempered	55 HRC	-	H2	●●	0,05	0,06	0,06	0,09	0,10	
		Hardened and tempered	60 HRC	-	H3							
	Hardened cast iron	Hardened and tempered	55 HRC	-	H4	●●	0,05	0,06	0,06	0,09	0,10	
O	Thermoplastics	Without abrasive fillers			O1	●● ●						
	Thermosets	Without abrasive fillers			O2	●● ●						
	Plastic, glass-fibre-reinforced	GFRP			O3							
	Plastic, carbon-fibre-reinforced	CFRP			O4							
	Plastic, aramid-fibre-reinforced	AFRP			O5							
	Graphite (technical)		80 Shore			O6	●● ●	0,09	0,12	0,14	0,17	0,22

- Recommended application (the specified cutting data is regarded as starting values for the recommended application)
- Possible application, limited to 2 × D_c drilling depth, MQL (minimum quantity lubrication) or compressed air is recommended.

When using drills > 3 × D, the following reductions are recommended:
 > 3 × D: Cutting speed v_c -20%, feed f -30% when spot drilling, feed f -50% when spot drilling on inclined surfaces.
 > 4 × D: Cutting speed v_c -30%, feed f -40% when spot drilling.

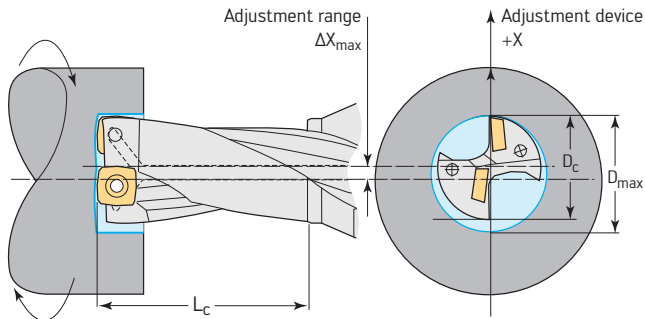
The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

Indexable insert geometry											Cutting material grade Outer insert [P2840S]								
Starting values for feed f [mm/rev]											Starting values for cutting speed v _c [m/min]								
E 57					E 67					HC									
Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	WKP25S f [mm/rev]			WKP35S f [mm/rev]			WSP45S f [mm/rev]			
D _c [mm]					D _c [mm]					0,06	0,10	0,16	0,06	0,10	0,16	0,06	0,10	0,16	
0,05	0,06	0,06	0,09	0,12	0,05	0,06	0,06	0,09	0,12	350	320		300	270		250	220		
0,06	0,07	0,08	0,11	0,17	0,06	0,07	0,08	0,11	0,17	260	240	220	220	200	180	170	160	150	
0,06	0,07	0,08	0,11	0,17						240	220	200	200	180	150	150	140	130	
0,06	0,07	0,08	0,11	0,17						220	200	180	180	150	140	140	130	120	
0,06	0,07	0,08	0,11	0,17						190	170	150	150	130	120	130	120	110	
0,06	0,07	0,08	0,11	0,17						220	200	180	180	150	140	140	130	120	
0,06	0,08	0,10	0,13	0,19	0,06	0,08	0,10	0,14	0,20	260	240	220	220	200	180	170	160	160	
0,06	0,07	0,08	0,11	0,14						230	210	190	190	170	140	140	130	120	
0,06	0,07	0,08	0,11	0,14						210	190	170	180	160	130	140	120	110	
0,05	0,06	0,06	0,09	0,11						190	170	160	170	140	130	140	120	110	
0,06	0,08	0,10	0,13	0,17	0,06	0,08	0,10	0,12	0,16	220	200	180	200	170	150	140	130	120	
0,06	0,07	0,08	0,11	0,14						200	170	150	180	140	130	130	120	110	
0,05	0,06	0,07	0,10	0,13						190	160	140	170	130	120	120	110	100	
0,06	0,07	0,08	0,11	0,14	0,06	0,07	0,08	0,11	0,14				190	170	150	140	130	120	
0,05	0,06	0,07	0,10	0,13	0,05	0,06	0,07	0,10	0,13				150	130	120	120	110	100	
0,06	0,07	0,08	0,10	0,13	0,06	0,07	0,09	0,12	0,14				220	200	180	180	170	150	
0,06	0,07	0,08	0,10	0,13	0,06	0,07	0,09	0,12	0,14				150	130	110	130	110	100	
0,06	0,07	0,08	0,10	0,13	0,06	0,07	0,09	0,12	0,14				120	100	80	100	80	70	
0,07	0,09	0,11	0,14	0,21	0,07	0,09	0,11	0,14	0,21	210	190	170	190	180	160	170	140	120	
0,05	0,07	0,08	0,11	0,18	0,05	0,07	0,09			190	140	120	130	120	110	130	120	110	
0,08	0,10	0,12	0,15	0,22	0,08	0,10	0,12	0,15	0,22	220	200	180	200	190	170	180	160	130	
0,06	0,08	0,09	0,12	0,19						180	150	130	150	130	110	150	130	110	
0,08	0,10	0,12	0,15	0,22	0,08	0,10	0,12	0,15	0,22	150	140	130	140	120	110	150	130	120	
0,06	0,08	0,09	0,12	0,22	0,06	0,08				140	130	120	120	110	100	120	110	110	
0,07	0,09	0,11	0,14	0,21	0,07	0,09	0,11	0,14	0,21	180	150	130	150	130	110	150	130	110	
0,07	0,09	0,10	0,12	0,17	0,07	0,09	0,11	0,12	0,17							450	450	450	
0,08	0,10	0,12	0,15	0,17	0,08	0,10	0,12	0,15	0,17							300	300	300	
0,08	0,10	0,12	0,15	0,17	0,08	0,10	0,12	0,15	0,17							250	250	250	
0,08	0,10	0,12	0,15	0,17	0,08	0,10	0,12	0,15	0,17							200	200	200	
0,08	0,10	0,12	0,15	0,17	0,08	0,10	0,12	0,15	0,17							300	300	300	
0,10	0,12	0,14	0,17	0,22	0,10	0,12	0,14	0,17	0,22							300	250	200	
0,10	0,12	0,14	0,17	0,22	0,10	0,12	0,14	0,17	0,22							350	300	250	
0,06	0,07	0,08	0,10	0,13	0,06	0,07	0,09	0,12	0,14				150	130	110	130	110	100	
0,05	0,06	0,07	0,10	0,13	0,05	0,06	0,07	0,10	0,13	100	100		100	100		90	90		
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11	80	80		80	80		70	70		
0,05	0,06	0,07	0,10	0,12	0,05	0,06	0,07	0,10	0,12	60	60		60	60		50	50		
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11	50	50		50	50		40	40		
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11	50	50		50	50		40	40		
0,05	0,06	0,07	0,10	0,12	0,05	0,06	0,07	0,10	0,12				50	50		50	45		
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11				50	50		40	40		
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11	70	60								
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11	70	60								
0,05	0,06	0,06	0,09	0,10						70	60	50							
0,05	0,06	0,06	0,09	0,10						60	50	50							
0,05	0,06	0,06	0,09	0,10						60	50	50							
0,16	0,18	0,20	0,25	0,30	0,16	0,18	0,20	0,25	0,30				400	400	400	400	400	400	
0,12	0,14	0,18	0,20	0,25	0,12	0,14	0,18	0,20	0,25	300	300	300	300	300	300	300	300	300	
0,07	0,09	0,11	0,14	0,21						300	250	200	250	200	150	250	200	150	

HC = Coated carbide

B 2

Drilling with X offset using a stationary drill with rotating workpiece



Adjustment range for Walter Drill D3120
 $D_c = 16-42$ mm with P284 . . . indexable inserts.

B2

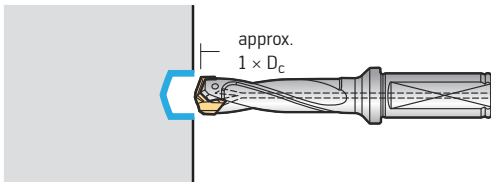
Indexable insert size	D_c mm	$(L_c \div D_c) \geq 4$		$(L_c \div D_c) < 4$	
		ΔX mm	D_{max} mm	ΔX_{max} mm	D_{max} mm
1	16	1,0	18,0	1,8	19,6
	17	0,8	18,6	1,5	20,0
	18	0,7	19,4	1,3	20,6
	19	0,5	20,0	1,0	21,0
	20	0,3	20,6	0,8	21,6
2	21	1,1	23,2	2,0	25,0
	22	0,9	23,8	1,7	25,4
	23	0,8	24,6	1,5	26,0
	24	0,6	25,2	1,2	26,4
	25	0,4	25,8	1,0	27,0
3	26	1,0	28,0	1,7	29,4
	27	0,8	28,6	1,4	29,8
	28	0,6	29,2	1,2	30,4
	29	0,4	29,8	0,9	30,8
	30	0,3	30,6	0,7	31,4

Indexable insert size	D_c mm	$(L_c \div D_c) \geq 4$		$(L_c \div D_c) < 4$	
		ΔX mm	D_{max} mm	ΔX_{max} mm	D_{max} mm
4	31	1,1	33,2	1,9	34,8
	32	0,9	33,8	1,6	35,2
	33	0,7	34,4	1,4	35,8
	34	0,5	35,0	1,1	36,2
	35	0,3	35,6	0,8	36,6
	36	0,2	36,4	0,6	37,2
	37	0,9	38,8	1,8	40,6
5	38	0,7	39,4	1,5	41,0
	39	0,5	40,0	1,2	41,4
	40	0,5	41,0	1,2	42,4
	41	0,4	41,8	0,9	42,8
	42	0,2	42,4	0,6	43,2

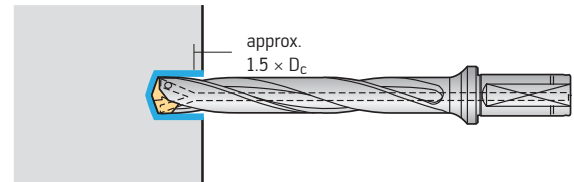
D4140 drilling strategy

Drilling depth $> 5 \times D_c - 10 \times D_c$

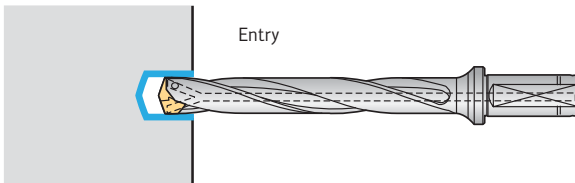
Pilot hole
D4140-03



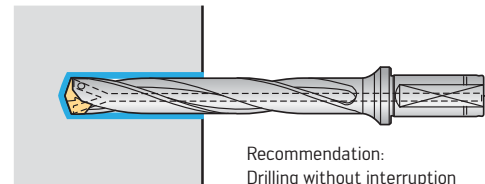
$n = -20\%$
 $f = -50\%$



max. approx. 500 rpm



$n = 100\%$
 $f = 100\%$



B2






VRR: Feed rate charts for D4140

VRR	Feed f [mm] for diameter [mm]								
	12	15	20	25	40	50	60	80	100
2	0,052	0,058	0,067	0,075	0,094	0,11	0,12	0,13	0,15
3	0,077	0,087	0,10	0,11	0,14	0,16	0,17	0,20	0,22
4	0,10	0,12	0,13	0,15	0,19	0,21	0,23	0,27	0,30
5	0,13	0,14	0,17	0,19	0,24	0,26	0,29	0,33	0,37
6	0,15	0,17	0,20	0,22	0,28	0,32	0,35	0,40	0,45
7	0,18	0,20	0,23	0,26	0,33	0,37	0,40	0,47	0,52
8	0,21	0,23	0,27	0,30	0,38	0,42	0,46	0,53	0,60
9	0,23	0,26	0,30	0,34	0,42	0,47	0,52	0,60	0,67
10	0,26	0,29	0,33	0,37	0,47	0,53	0,58	0,67	0,75
12	0,31	0,35	0,40	0,45	0,57	0,63	0,69	0,80	0,89
16	0,41	0,46	0,53	0,60	0,75	0,84	0,92	1,07	1,19

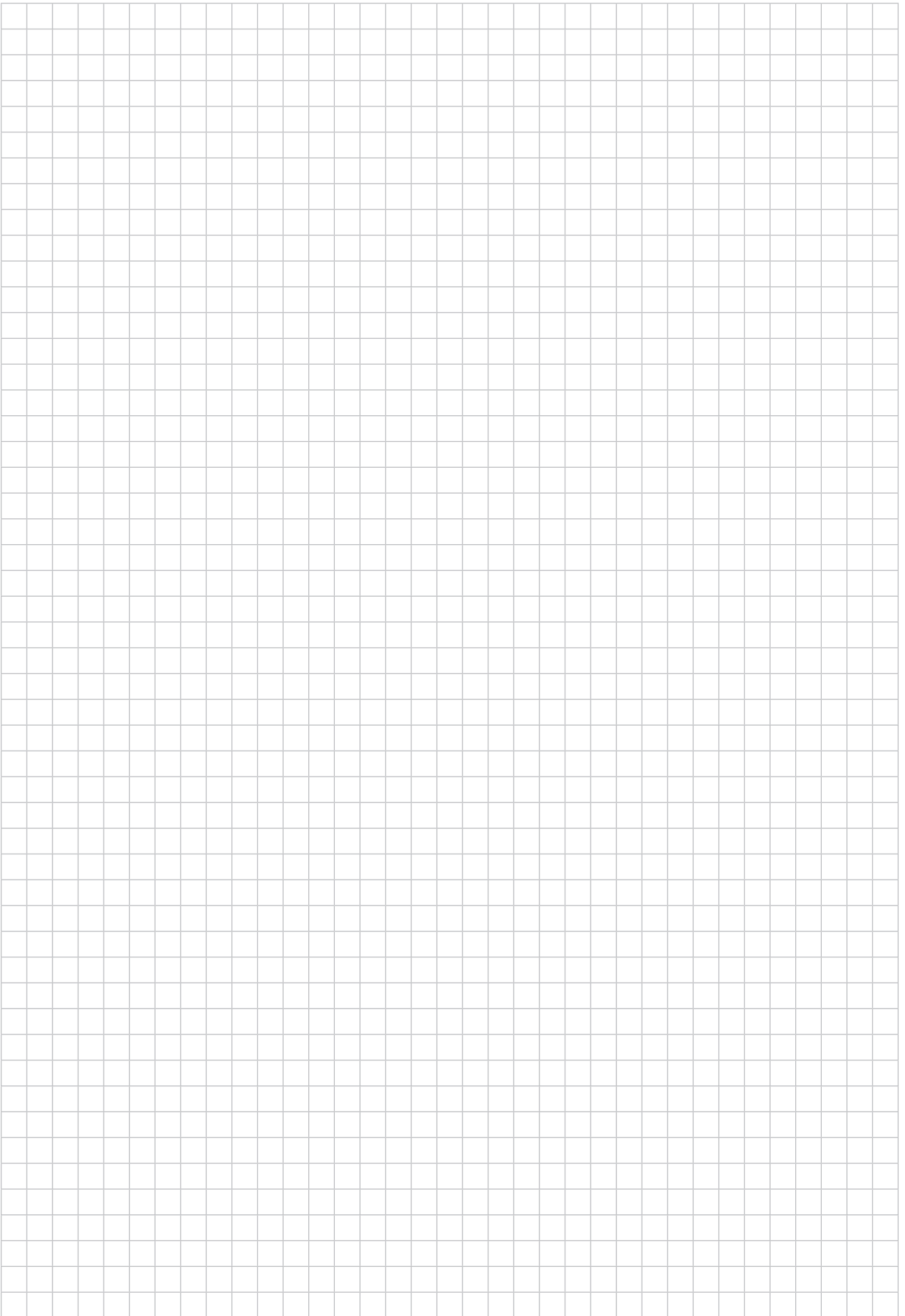
Cutting data

HSS drills

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

Material group	Overview of the main material groups and code letters			Drilling depth		~8 × Dc				
				Designation		DA110 Perform				
				Standard		DIN 338				
				Cooling		External coolant				
Coating/grade		WZ90AJ								
Dia. range [mm]		1–16								
										
		 								
		vc								
		VRR								
		 								
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	29	9	EO	
		C > 0.25... ≤ 0.55%	Annealed	190	640	P2	29	10	EO	
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	P3	23	10	EO	
		C > 0.55%	Annealed	190	640	P4	22	8	EO	
		C > 0.55%	Heat-treated	300	1010	P5	15	8	EO	
		Free-machining steel (short-chipping)	Annealed	220	750	P6	29	10	EO	
	Low-alloy steel	Annealed	175	590	P7	29	10	EO		
		Heat-treated	285	960	P8	13	8	EO		
		Heat-treated	380	1280	P9	9	3	EO		
		Heat-treated	430	1480	P10					
	High-alloy steel and high-alloy tool steel	Annealed	200	680	P11	9	4	EO		
		Hardened and tempered	300	1010	P12	15	8	EO		
		Hardened and tempered	380	1280	P13	7	3	EO		
	Stainless steel	Ferritic/martensitic, annealed	200	680	P14	24	10	EO		
		Martensitic, heat-treated	330	1110	P15	15	8	EO		
M	Stainless steel	Austenitic, quench hardened	200	680	M1	5	4	OE		
		Austenitic, precipitation hardened (PH)	300	1010	M2	8	5	EO		
		Austenitic/ferritic, duplex	230	780	M3					
K	Malleable cast iron	Ferritic	200	400	K1	22	12	EO		
		Pearlitic	260	700	K2	17	10	EO		
	Grey cast iron	Low tensile strength	180	200	K3	28	12	EO		
		High tensile strength/austenitic	245	350	K4	22	12	EO		
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	25	12	EO		
		Pearlitic	265	700	K6	17	10	EO		
	GGV (CGI)		230	400	K7	20	10	EO		
N	Wrought aluminium alloys	Not hardenable	30	-	N1					
		Hardenable, hardened	100	340	N2					
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3					
		≤ 12% Si, hardenable, hardened	90	310	N4					
		> 12% Si, not hardenable	130	450	N5					
	Magnesium alloys		70	250	N6					
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100	340	N7	41	5	EO		
		Brass, bronze, red brass	90	310	N8					
		Cu alloys, short-chipping	110	380	N9	51	12	EO		
		High-tensile, Ampco	300	1010	N10					
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	4	3	OE	
			Hardened	280	940	S2				
		Ni- or Co-based	Annealed	250	840	S3				
			Hardened	350	1180	S4				
			Cast	320	1080	S5				
	Titanium alloys	Pure titanium	200	680	S6					
		α and β alloys, hardened	375	1260	S7					
Tungsten alloys		410	1400	S8						
Molybdenum alloys		300	1010	S9						
			300	1010	S10					
H	Hardened steel	Hardened and tempered	50 HRC	-	H1					
		Hardened and tempered	55 HRC	-	H2					
		Hardened and tempered	60 HRC	-	H3					
	Hardened cast iron	Hardened and tempered	55 HRC	-	H4					
O	Thermoplastics	Without abrasive fillers			O1	25	12	EO		
	Thermosets	Without abrasive fillers			O2	28	8			
	Plastic, glass-fibre-reinforced	GFRP			O3				L	
	Plastic, carbon-fibre-reinforced	CFRP			O4					
	Plastic, aramid-fibre-reinforced	AFRP			O5					
	Graphite (technical)		80 Shore		O6					

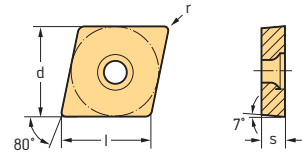
B2




B2

Positive rhombic 80° CCMT

Tiger-tec® Silver



Indexable inserts

Designation	r mm	l mm	P				M					K		N		S		
			HC				HC					HC	HC	HW	HC			
			WPP10S	WPP20S	WPP20	WMP20S	WMP20S	WSM10S	WSM20S	WSM30S	WSM20	WSM30	WKK10S	WKK20S	WXN10	WK1	WSM10S	WSM20S
 CCMT060202-E47	0,2	6,45	☒	☒			☒	☒								☒	☒	
CCMT060204-E47	0,4	6,45	☒	☒	☒		☒	☒								☒	☒	
CCMT09T302-E47	0,2	9,67	☒				☒	☒								☒	☒	
CCMT09T304-E47	0,4	9,67	☒				☒	☒								☒	☒	
CCMT09T308-E47	0,8	9,67	☒				☒	☒								☒	☒	
CCMT120404-E47	0,4	12,9	☒				☒	☒								☒	☒	
CCMT120408-E47	0,8	12,9	☒				☒	☒								☒	☒	
CCMT120412-E47	1,2	12,9	☒				☒	☒								☒	☒	
CCMT160508-E47	0,8	16,12	☒				☒									☒		

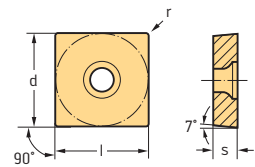
See the ISO 1832 designation key for dimensions

 HC = Coated carbide
 HW = Uncoated carbide


B2

Positive square SCMT

Tiger-tec® Silver



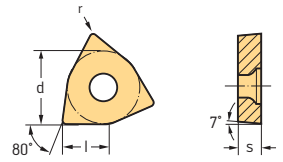
Indexable inserts

Designation	r mm	l mm	P				M					K		N		S					
			HC				HC					HC	HC	HC							
			WPP10S	WPP20S	WPP30S	WMP20S	WPP20S	WSM10S	WSM20S	WSM30S	WSM10	WSM20	WSM30	WKK10S	WKK20S	WXN10	WK10	WSM10S	WSM20S	WSM30S	WSM10
 SCMT060204-E47	0,4	6,35	☒				☒	☒	☒							☒	☒	☒			
SCMT09T304-E47	0,4	9,53	☒				☒	☒	☒							☒	☒	☒			
SCMT09T308-E47	0,8	9,53	☒				☒	☒	☒							☒	☒	☒			
SCMT120408-E47	0,8	12,7	☒				☒	☒	☒							☒	☒	☒			


See the ISO 1832 designation key for dimensions

HC = Coated carbide

Positive Trigon 80°
WCMT
Tiger-tec® Silver



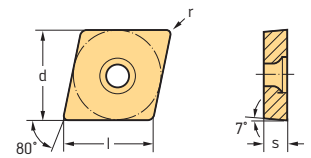
Indexable inserts

Designation	l mm	r mm	P			M			K	S
			HC			HC			HC	HC
			WPP10S	WPP20S	WPP30S	WMP20S	WSM10S	WSM20S	WSM30S	WAK10
 WCMT030204-E47	3,5	0,4	☒	☒					☒	
WCMT040204-E47	4,3	0,4	☒						☒	
WCMT06T304-E47	6,5	0,4	☒						☒	
WCMT06T308-E47	6,5	0,8	☒						☒	
WCMT080408-E47	8,7	0,8	☒						☒	


HC = Coated carbide

B2

Positive rhombic 80°
CCMT
Cermet

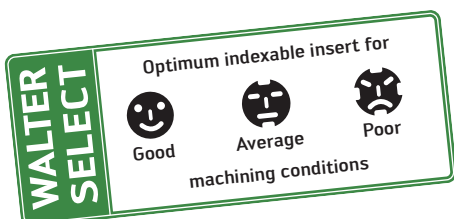


Indexable inserts

Designation	l mm	r mm	P		M					K	N	S									
			HE	HC	HC					HC	HC	HW	HC								
			WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM20S	WSM30S	WSM10	WSM20	WSM30	WKK10S	WKK20S	WXN10	WK1	WSM20S	WSM30S	WSM10	WSM20
 CCMT060202-FP4	6,45	0,2	☒	☒																	
CCMT060204-FP4	6,45	0,4	☒	☒																	
CCMT060208-FP4	6,45	0,8	☒	☒																	
CCMT09T302-FP4	9,67	0,2	☒	☒																	
CCMT09T304-FP4	9,67	0,4	☒	☒																	
CCMT09T308-FP4	9,67	0,8	☒	☒																	
CCMT120404-FP4	12,90	0,4	☒	☒																	
CCMT120408-FP4	12,90	0,8	☒	☒																	

See the ISO 1832 designation key for dimensions

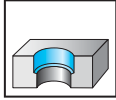
HE = Coated cermet
HC = Coated carbide
HW = Uncoated carbide



Two flute boring tool B3220

Walter Boring^{MEDIUM}

D_c 41-153	$\kappa=90^\circ$	Z = 2
-----------------	-------------------	-------



	P	M	K	N	S	H	O
B3220	●	●	●	●	●		

Tool

	Basic body designation	d ₁ mm	D _c mm	l ₄ mm	l _{4,1} ARS mm
NCT ScrewFit 	B3220G.T36.41-55.Z2	T36	41-55	65	65,3
	B3220G.C4.041-056.Z2	C4		80	80,3
	B3220G.N4.041-056.Z2	N4		80	80,3
	B3220G.T45.55-70.Z2	T45		80	80,3
Walter Capto™ 	B3220G.C5.055-073.Z2	C5	55-70	100	100,3
	B3220G.N5.055-073.Z2	N5		100	100,3
	B3220G.N6.070-093.Z2	C6	70-90	110	110,3
	B3220G.C6.070-93.Z2	N6		100	100,3
Modular adaptor 	B3220G.C8.090-113.Z2	C8	90-110	110	110,3
	B3220G.N8.090-113.Z2	N8		100	100,3
	B3220G.C8.110-153.Z2	C8	110-133	110	110,3
	B3220G.N8.110-153.Z2	N8		100	100,3
	B3220G.C8.110-153.Z2	C8	130-153	110	110,3
	B3220G.N8.110-153.Z2	N8		100	100,3

For assembly aids, see page D 154 of the Walter General Catalogue 2017

© ARS cartridge for axial and radial offset roughing. For this, a cartridge © of the complete tool with CC insert seat must be replaced.

l_{4,1} For the projection length when using the ARS counterboring method, see "Technical information"

Bodies and assembly parts are included in the scope of delivery.



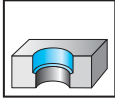
Cartridge ① designation	ARS cartridge ② designation	 Type	Complete tool designation with C insert
EB207-208.CC09	EB207-208-1.CC09	CC09	B3220.T36.41-55.Z2.CC09*
			B3220.C4.041-055.Z2.CC09
			B3220.N4.041-055.Z2.CC09
EB209-210.CC09	EB209-210-1.CC09		B3220.T45.55-70.Z2.CC09*
			B3220.C5.055-070.Z2.CC09
			B3220.N5.055-070.Z2.CC09
EB211-212.CC12	EB211-212-1.CC12	CC12 CC16	B3220.C6.070-090.Z2.CC12 B3220.N6.070-090.Z2.CC12
EB211-212.CC16	EB211-212-1.CC16		B3220.C6.070-090.Z2.CC16 B3220.N6.070-090.Z2.CC16
EB213-214.CC12 EB213-214.CC16	EB213-214-1.CC12 EB213-214-1.CC16		B3220.C8.090-110.Z2.CC12 B3220.C8.090-110.Z2.CC16
			B 3220.N8.090-110.Z2.CC12 B 3220.N8.090-110.Z2.CC16
EB215.CC12 EB215.CC16	EB215-1.CC12 EB215-1.CC16		B3220.C8.110-133.Z2.CC12 B3220.C8.110-133.Z2.CC16
			B 3220.N8.110-133.Z2.CC12 B 3220.N8.110-133.Z2.CC16
EB216.CC12 EB216.CC16	EB216-1.CC12 EB216-1.CC16		B3220.C8.130-153.Z2.CC12 B3220.C8.130-153.Z2.CC16
			B 3220.N8.130-153.Z2.CC12 B 3220.N8.130-153.Z2.CC16

* Important: The projection of the cartridges must be sufficient for chip removal when used with extension in blind-hole bores.

Two flute boring tool B3223 / B3224

Walter Boring^{MEDIUM}

D_c 150- 640	$\kappa=90^\circ$	Z = 2
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	P	M	K	N	S	H	O
B3223 / B3224	●●	●●	●●	●	●●		

Tool	Basic body designation	d_1 mm	D_c mm	l_4 mm	$l_{4,1}$ ARS mm	Bridge designation	
Walter Capto™		C8	150–220	160	160,3	EB134AL	
		N8		150	150,3		
			C8	220–290	160	160,3	EB135AL
			N8		150	150,3	
		B3223G.C8.150-640 B3224G.C8.150-640	C8	290–360	160	160,3	EB136AL
			N8		150	150,3	
			C8	360–430	160	160,3	EB137AL
			N8		150	150,3	

For assembly aids, see page D 154 of the Walter General Catalogue 2017

© ARS cartridge for axial and radial offset roughing. For this, a cartridge © of the complete tool with CC insert seat must be replaced.

$l_{4,1}$ For the projection length when using the ARS counterboring method, see "Technical information"

Bodies and assembly parts are included in the scope of delivery.



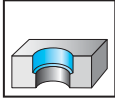
Cartridge holder designation	Cartridge ① designation	ARS cartridge ② designation	 Type	Complete tool designation with C insert
EB122	EB217.CC12 EB217.CC16	EB217-1.CC12 EB217-1.CC16	CC12 CC16	B3220.C8.150-220.Z2.CC12 B3220.C8.150-220.Z2.CC16
				B3224.C8.150-220.Z2.CC12 B3224.C8.150-220.Z2.CC16
				B 3220.N8.150-220.Z2.CC12 B 3220.N8.150-220.Z2.CC16
				B 3224.N8.150-220.Z2.CC12 B 3224.N8.150-220.Z2.CC16
				B3220.C8.220-290.Z2.CC12 B3220.C8.220-290.Z2.CC16
				B3224.C8.220-290.Z2.CC12 B3224.C8.220-290.Z2.CC16
				B3220.N8.220-290.Z2.CC12 B3220.N8.220-290.Z2.CC16
				B3224.N8.220-290.Z2.CC12 B3224.N8.220-290.Z2.CC16
				B3220.C8.290-360.Z2.CC12 B3220.C8.290-360.Z2.CC16
				B3224.C8.290-360.Z2.CC12 B3224.C8.290-360.Z2.CC16
				B3220.N8.290-360.Z2.CC12 B3220.N8.290-360.Z2.CC16
				B3224.N8.290-360.Z2.CC12 B3224.N8.290-360.Z2.CC16
				B3220.C8.360-430.Z2.CC12 B3220.C8.360-430.Z2.CC16
				B3224.C8.360-430.Z2.CC12 B3224.C8.360-430.Z2.CC16

B2

Two flute boring tool B3223 / B3224

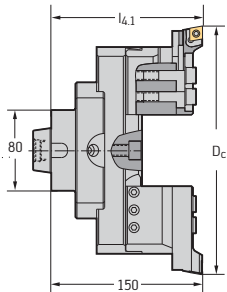
Walter Boring^{MEDIUM}

D_c 150- 640	$\kappa=90^\circ$	Z = 2
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	P	M	K	N	S	H	O
B3223 / B3224	●	●	●	●	●		

Tool	Basic body designation	d_1 mm	D_c mm	l_4 mm	$l_{4,1}$ ARS mm	Bridge designation
Modular adaptor		N8	360-430	150	150,3	EB137AL
		C8	430-500	160	160,3	EB138AL
		N8		150	150,3	
	B3223G.N8.150-640 B3224G.N8.150-640	C8	500-570	160	160,3	EB139AL
		N8		150	150,3	
		C8	570-640	160	160,3	EB140AL
		N8		150	150,3	



B3223G.N8.150-640
B3224G.N8.150-640

For assembly aids, see page D 154 of the Walter General Catalogue 2017

© ARS cartridge for axial and radial offset roughing. For this, a cartridge © of the complete tool with CC insert seat must be replaced.

$l_{4,1}$ For the projection length when using the ARS counterboring method, see "Technical information"

Bodies and assembly parts are included in the scope of delivery.



Cartridge holder designation	Cartridge ① designation	ARS cartridge ② designation	 Type	Complete tool designation with C insert
EB122	EB217.CC12 EB217.CC16	EB217-1.CC12 EB217-1.CC16	CC12 CC16	B3220.N8.360-430.Z2.CC12 B3220.N8.360-430.Z2.CC16
				B3224.N8.360-430.Z2.CC12 B3224.N8.360-430.Z2.CC16
				B3220.C8.430-500.Z2.CC12 B3220.C8.430-500.Z2.CC16
				B3224.C8.430-500.Z2.CC12 B3224.C8.430-500.Z2.CC16
				B3220.N8.430-500.Z2.CC12 B3220.N8.430-500.Z2.CC16
				B3224.N8.430-500.Z2.CC12 B3224.N8.430-500.Z2.CC16
				B3220.C8.500-570.Z2.CC12 B3220.C8.500-570.Z2.CC16
				B3224.C8.500-570.Z2.CC12 B3224.C8.500-570.Z2.CC16
				B3220.N8.500-570.Z2.CC12 B3220.N8.500-570.Z2.CC16
				B3224.N8.500-570.Z2.CC12 B3224.N8.500-570.Z2.CC16
				B3220.C8.570-640.Z2.CC12 B3220.C8.570-640.Z2.CC16
				B3224.C8.570-640.Z2.CC12 B3224.C8.570-640.Z2.CC16
				B3220.N8.570-640.Z2.CC12 B3220.N8.570-640.Z2.CC16
				B 3224.N8.570-640.Z2.CC12 B 3224.N8.570-640.Z2.CC16

B2

Precision boring cartridges



– 0.01 and 0.002 mm adjustment accuracy

Tool	Designation	D_{cmin} mm	d_8 mm	l_{13} mm	f mm	h_1 mm	l_1 mm	t mm	Set mm	Indexable insert type
$\kappa = 90^\circ$ 	FR709 / FL709	36	4,5	9,25	20	8,5	49,8	1	0,01	TC . . 1102 . .
	FR760	36	5,5	13,5	20	8,5	49,5	1	0,002	TC . . 1102 . .
	FR710 / FL710	28	4,5	9,25	16	8,5	49,5	1	0,01	CC . . 0602 . .
	FR761	28	5,5	13,5	16	8,5	49,5	1	0,002	CC . . 0602 . .

Measured with master insert TC . . 110204 and CC . . 060204

For radial/axial adjustment range, see page B 641 in the Walter General Catalogue 2017

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Indexable insert type	TC . . 1102 . .	CC . . 0602 . .
	Clamping screw	FS1129 (Torx 8)	FS1129 (Torx 8)
	Clamping screw for cartridge	FS1354	FS1354
	Compression piece	FK369	FK369
	Adjusting screw, axial	FS1355	FS1355
	Radial adjusting screw	FS1356	FS1356

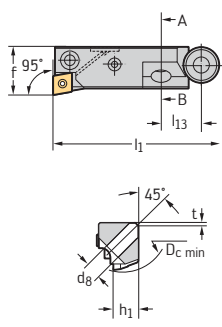
Accessories	Indexable insert type	TC . . 1102 . .
	Screwdriver	FS257 (Torx 8)

Precision boring cartridges



– 0.01 and 0.002 mm adjustment accuracy

Tool	Designation	D_{cmin} mm	d_8 mm	l_{13} mm	f mm	h_1 mm	l_1 mm	t mm	Set mm	Indexable insert type
$\kappa = 95^\circ$	FR717 / FL717	28	4,5	9,25	16	8,5	49,5	1	0,01	CC . . 0602 . .
	FR763	28	5,5	13,5	16	8,5	49,5	1	0,002	CC . . 0602 . .



A-B

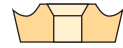
Measured with master insert CC . . 060204
 For radial/axial adjustment range, see page B 641 in the Walter General Catalogue 2017
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Indexable insert type	CC . . 0602 . .
	Clamping screw	FS1129 (Torx 8)
	Clamping screw for cartridge	FS1354
	Compression piece	FK369
	Adjusting screw, axial	FS1355
	Radial adjusting screw	FS1356

Accessories	Indexable insert type	TC . . 1102 . .
	Screwdriver	FS257 (Torx 8)

B2

Cutting data for precision boring (cartridges) – positive basic shape Cermet



B2

Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R_m N/mm ²	Machining group ¹		Cutting material grades		
							Starting values for cutting speed v_c [m/min]		
							HE		
							WEPI0		
			f [mm/rev]			3 × D _C	4 × D _C	6 × D _C	
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125 430	P1	●●●	288	261	162
		C > 0.25... ≤ 0.55%	Annealed	190 640	P2	●●●	270	216	135
		C > 0.25... ≤ 0.55%	Heat-treated	210 710	P3	●●●	243	198	126
		C > 0.55%	Annealed	190 640	P4	●●●	234	189	117
		C > 0.55%	Heat-treated	300 1010	P5	●●●	207	171	108
	Free-machining steel (short-chipping)	Annealed	220 750	P6	●●●	243	198	126	
	Low-alloy steel	Annealed	175 590	P7	●●●	270	216	135	
		Heat-treated	285 960	P8	●●●	225	180	117	
		Heat-treated	380 1280	P9	●●●	198	162	99	
		Heat-treated	430 1480	P10	●●●	171	135	72	
High-alloy steel and high-alloy tool steel	Annealed	200 680	P11	●●●	225	171	117		
	Hardened and tempered	300 1010	P12	●●●	189	162	99		
	Hardened and tempered	380 1280	P13	●●●	180	144	81		
Stainless steel	Ferritic/martensitic, annealed	200 680	P14	●●●	225	180	117		
	Martensitic, heat-treated	330 1110	P15	●●●	171	153	90		
M	Stainless steel	Austenitic, quench hardened	200 680	M1	●●●	207	162	108	
		Austenitic, precipitation hardened (PH)	300 1010	M2	●●●	153	117	99	
		Austenitic/ferritic, duplex	230 780	M3	●●●	171	135	81	
K	Malleable cast iron	Ferritic	200 400	K1	●●●	225	189	108	
		Pearlitic	260 700	K2	●●●	180	153	99	
	Grey cast iron	Low tensile strength	180 200	K3	●●●	243	207	126	
		High tensile strength/austenitic	245 350	K4	●●●	180	153	99	
	Cast iron with spheroidal graphite	Ferritic	155 400	K5	●●●	225	180	117	
Pearlitic		265 700	K6	●●●	207	162	108		
GGV (CGI)		230 400	K7	●●●					
N	Wrought aluminium alloys	Not hardenable	30 -	N1	●●●				
		Hardenable, hardened	100 340	N2	●●●				
	Cast aluminium alloys	≤ 12% Si, not hardenable	75 260	N3	●●●				
		≤ 12% Si, hardenable, hardened	90 310	N4	●●●				
		> 12% Si, not hardenable	130 450	N5	●●●				
	Magnesium-based alloys ³		70 250	N6	●●●				
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100 340	N7	●●●				
		Brass, bronze, red brass	90 310	N8	●●●				
		Cu alloys, short-chipping	110 380	N9	●●●				
		High-tensile, Ampco	300 1010	N10	●●●				
S	Heat-resistant alloys	Fe-based	Annealed	200 680	S1	●●●			
			Hardened	280 940	S2	●●●			
		Ni- or Co-based	Annealed	250 840	S3	●●●			
			Hardened	350 1180	S4	●●●			
			Cast	320 1080	S5	●●●			
	Titanium alloys	Pure titanium	200 680	S6	●●●				
		α and β alloys, hardened	375 1260	S7	●●●				
		β alloys	410 1400	S8	●●●				
	Tungsten alloys		300 1010	S9	●●●				
	Molybdenum alloys		300 1010	S10	●●●				
H	Hardened steel	Hardened and tempered	50 HRC	H1	●●●				
		Hardened and tempered	55 HRC	H2	●●●				
		Hardened and tempered	60 HRC	H3	●●●				
	Hardened cast iron	Hardened and tempered	55 HRC	H4	●●●				
O	Thermoplastics	Without abrasive fillers		O1	●●●				
	Thermosets	Without abrasive fillers		O2	●●●				
	Plastic, glass-fibre-reinforced	GFRP		O3	●●●				
	Plastic, carbon-fibre-reinforced	CFRP		O4	●●●				
	Plastic, aramid-fibre-reinforced	AFRP		O5	●●●				
	Graphite (technical)		80 Shore	O6	●●●				

●● Recommended application (the specified cutting data is regarded as starting values for the recommended application)

● Possible application, reduce cutting data by 30–50% (increase by approx. 70–80% for ISO M)

Note: If dry machining is possible, the tool life is reduced by 20–30% on average.

For specific applications, adjustment is recommended.

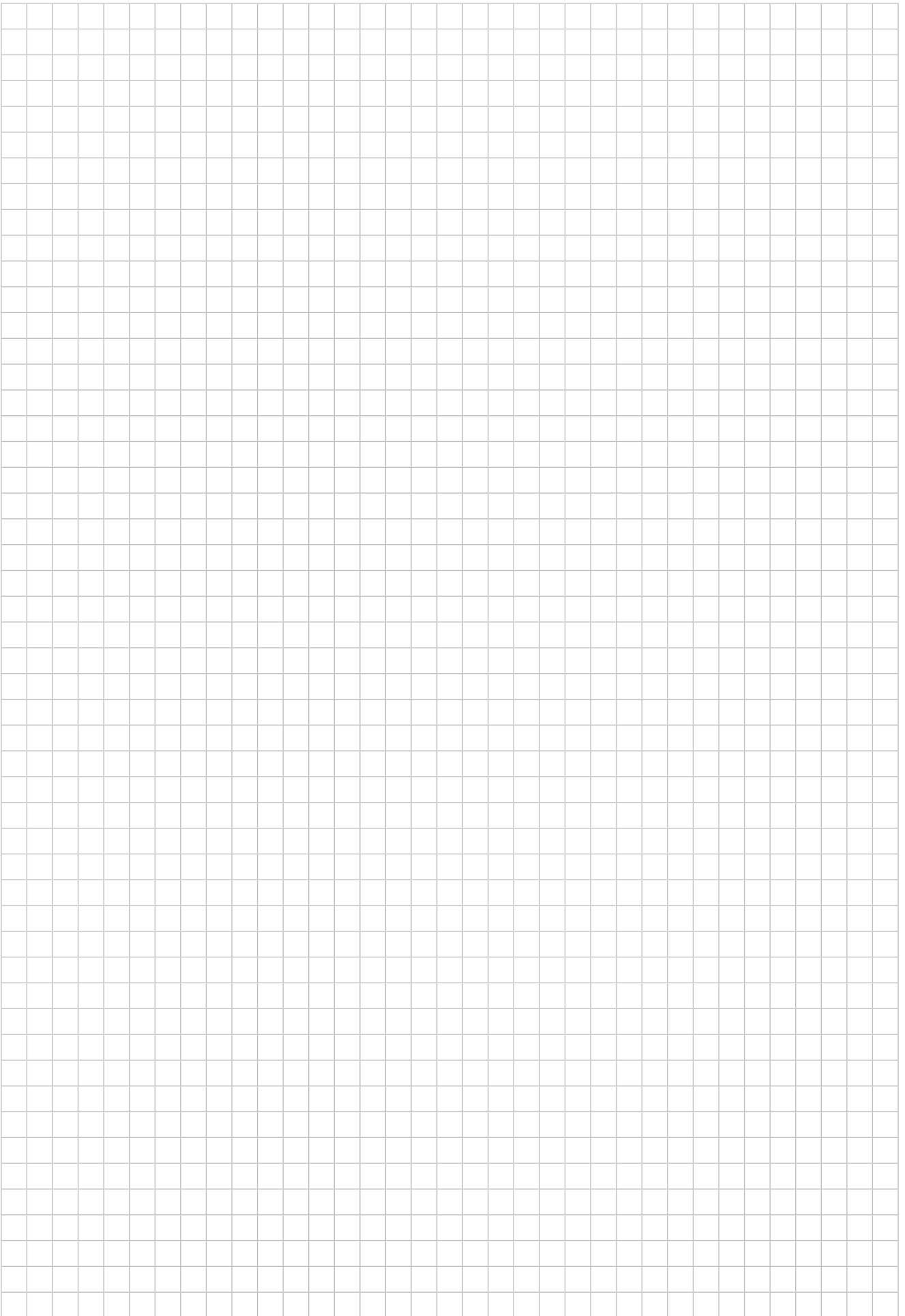
¹ The classification of the machining groups can be found from page B 1174 onwards in the Walter General Catalogue 2017.

³ Water-miscible coolants must not be used when machining magnesium alloys.

The specified cutting data are average standard values.

For specific applications, adjustment is recommended.

HE = Coated cermet



B2

Tapping – B3

HSS-E (-PM) taps	Designation key	194
	M – Metric thread	195
	MF – Metric fine-pitch thread	202
	UNC	203
	UNF	209
	NPT	212

Thread formers – B3

HSS-E-PM thread former	Designation key	213
	M – Metric thread	214
	MF – Metric fine-pitch thread	227

Thread milling – B4

Thread milling cutters	Designation key	231
	Indexable insert thread milling cutter	232
Technical information	Cutting data	246
	Radius correction values	248
	Tool application	249



HSS-E (-PM) taps designation key

Example:

T	C	1	20	-	M10	-	C	1	-	W	W	60	AG
1	2	3	4	5	6		7	8		Grade			

1	2	3	4
Tool group	Generation	Tool type	Tool type
T Threading		1 Blind hole taps 2 Through hole taps	15 Universal 45° helix angle 300–1000 N/mm ² 16 Universal Straight-fluted, spiral point 300–800 N/mm ² 20 ISO P 45° helix angle 350–800 N/mm ² 21 ISO P 40° helix angle 800–1250 N/mm ² 22 ISO P 15° helix angle 1000–1400 N/mm ²

5	6	7	8
1. Delimiters	Thread dimensions	Tolerance/shank type	Modification
- Metric		C 6HX, 2B Reinforced shank L 6HX, 2B Reduced shank	0 External coolant 1 Axial inner coolant

B3

Grade designation key for solid carbide and HSS-E (PM) cutting tool materials

Example:

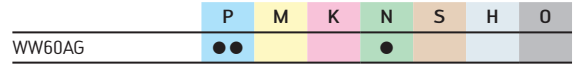
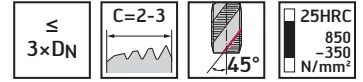
W	W	60	AG
Walter	1	2	3

1	2	3
Substrate	Application range	Coating
Solid carbide HSS-E-PM W HSS-E Y		AA TiN AG TiNK/VAP BD TiCN BC TiCN RG TiAlN

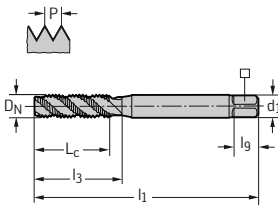
HSS-E-PM machine taps TC120 Supreme



- For long-chipping materials

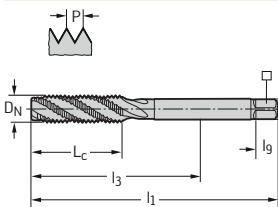


DIN 371											WW60AG
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N		
TC120-M3-C0-	M 3	0,5	56	10	18	3,5	2,7	6	3		
TC120-M4-C0-	M 4	0,7	63	13,5	21	4,5	3,4	6	3		
TC120-M5-C0-	M 5	0,8	70	16,5	25	6	4,9	8	3		
TC120-M6-C0-	M 6	1	80	20	30	6	4,9	8	3		
TC120-M8-C0-	M 8	1,25	90	26,5	35	8	6,2	9	3		
TC120-M10-C0-	M 10	1,5	100	33	39	10	8	11	3		



Ordering example for the WW60AG grade: TC120-M3-C0-WW60AG

DIN 376											WW60AG
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N		
TC120-M12-L0-	M 12	1,75	110	39,5	83	9	7	10	4		
TC120-M16-L0-	M 16	2	120	52	78	12	9	12	4		
TC120-M20-L0-	M 20	2,5	140	65	95	16	12	15	4		
TC120-M24-L0-	M 24	3	160	78	113	18	14,5	17	4		
TC120-M30-L0-	M 30	3,5	205	97	140	22	18	21	4		



Ordering example for the WW60AG grade: TC120-M12-L0-WW60AG

B3

HSS-E-PM machine taps TC120 Supreme

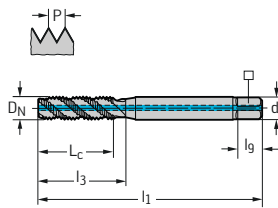


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AG	●	●	●	●	●	●	●

DIN 371

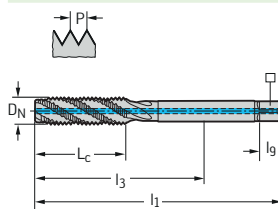


Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N	WW60AG
TC120-M8-C1-	M 8	1,25	90	26,5	35	8	6,2	9	3	●
TC120-M10-C1-	M 10	1,5	100	33	39	10	8	11	3	●

Ordering example for the WW60AG grade: TC120-M8-C1-WW60AG

B3

DIN 376



Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N	WW60AG
TC120-M12-L1-	M 12	1,75	110	39,5	83	9	7	10	4	●
TC120-M16-L1-	M 16	2	120	52	78	12	9	12	4	●

Ordering example for the WW60AG grade: TC120-M12-L1-WW60AG

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

HSS-E (-PM) machine taps TC121 Supreme



- For long-chipping materials

≤
2,5×DN

C=2-3

40°

40HRC
1300
-800
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WW60RG	●	●	●	●			
WY80BD	●	●	●	●			

DIN 371											WW60RG	WY80BD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60RG	WY80BD
TC121-M2-C0-	M 2	0,4	45	4	7,6	2,8	2,1	5	3			
TC121-M3-C0-	M 3	0,5	56	6	11	3,5	2,7	6	3			
TC121-M4-C0-	M 4	0,7	63	7	14,8	4,5	3,4	6	3			
TC121-M5-C0-	M 5	0,8	70	8	20,7	6	4,9	8	3			
TC121-M6-C0-	M 6	1	80	10	25	6	4,9	8	3			
TC121-M8-C0-	M 8	1,25	90	12	35	8	6,2	9	3			
TC121-M10-C0-	M 10	1,5	100	15	39	10	8	11	3			

Ordering example for the WW60RG grade: TC121-M2-C0-WW60RG

DIN 376											WW60RG	WY80BD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60RG	WY80BD
TC121-M12-L0-	M 12	1,75	110	16	83	9	7	10	4			
TC121-M14-L0-	M 14	2	110	20	81	11	9	12	4			
TC121-M16-L0-	M 16	2	110	20	68	12	9	12	4			
TC121-M20-L0-	M 20	2,5	140	25	95	16	12	15	4			

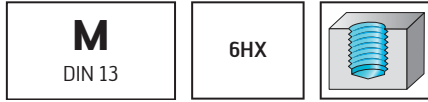
Ordering example for the WW60RG grade: TC121-M12-L0-WW60RG

B3

HSS-E (-PM) machine taps TC121 Supreme

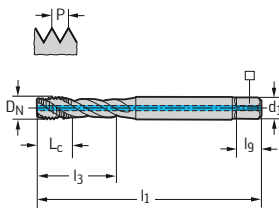


- For long-chipping materials



	P	M	K	N	S	H	O
WW60RG	●	●	●	●			

DIN 371

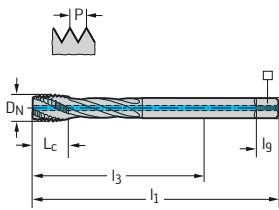


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WW60RG
TC121-M5-C1-	M 5	0,8	70	8	20,7	6	4,9	8	3	●
TC121-M6-C1-	M 6	1	80	10	25	6	4,9	8	3	●
TC121-M8-C1-	M 8	1,25	90	12	35	8	6,2	9	3	●
TC121-M10-C1-	M 10	1,5	100	15	39	10	8	11	3	●

Ordering example for the WW60RG grade: TC121-M5-C1-WW60RG

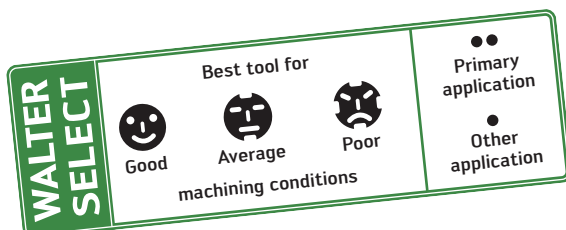
B3

DIN 376



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WW60RG
TC121-M12-L1-	M 12	1,75	110	16	83	9	7	10	4	●
TC121-M14-L1-	M 14	2	110	20	81	11	9	12	4	●
TC121-M16-L1-	M 16	2	110	20	68	12	9	12	4	●
TC121-M20-L1-	M 20	2,5	140	25	95	16	12	15	4	●

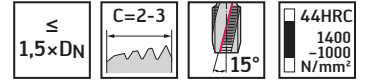
Ordering example for the WW60RG grade: TC121-M12-L1-WW60RG



HSS-E-PM machine taps TC122 Supreme

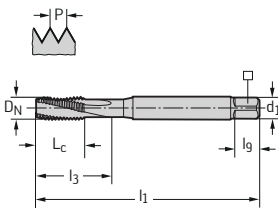


– For long-chipping materials



	P	M	K	N	S	H	O
WW60BC	●	●	●	●	●	●	●

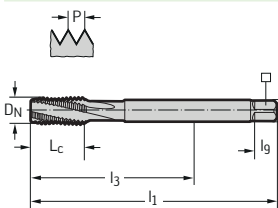
DIN 371



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60BC
TC122-M3-C0-	M 3	0,5	56	10	10	3,5	2,7	6	3	●
TC122-M4-C0-	M 4	0,7	63	13	13	4,5	3,4	6	3	●
TC122-M5-C0-	M 5	0,8	70	16	16	6	4,9	8	3	●
TC122-M6-C0-	M 6	1	80	15	30	6	4,9	8	3	●
TC122-M8-C0-	M 8	1,25	90	18	35	8	6,2	9	3	●
TC122-M10-C0-	M 10	1,5	100	20	39	10	8	11	3	●

Ordering example for the WW60BC grade: TC122-M3-C0-WW60BC

DIN 376



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60BC
TC122-M12-L0-	M 12	1,75	110	23	83	9	7	10	4	●
TC122-M14-L0-	M 14	2	110	25	81	11	9	12	4	●
TC122-M16-L0-	M 16	2	110	25	68	12	9	12	4	●
TC122-M20-L0-	M 20	2,5	140	30	95	16	12	15	4	●

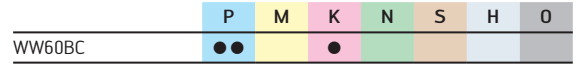
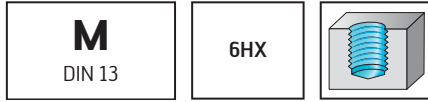
Ordering example for the WW60BC grade: TC122-M12-L0-WW60BC

B3

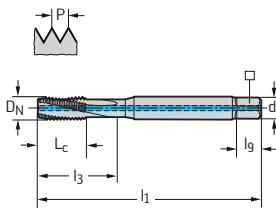
HSS-E-PM machine taps TC122 Supreme



- For long-chipping materials



DIN 371

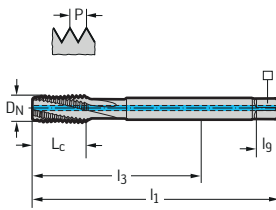


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WW60BC
TC122-M5-C1-	M 5	0,8	70	16	16	6	4,9	8	3	●
TC122-M6-C1-	M 6	1	80	15	30	6	4,9	8	3	●
TC122-M8-C1-	M 8	1,25	90	18	35	8	6,2	9	3	●
TC122-M10-C1-	M 10	1,5	100	20	39	10	8	11	3	●

Ordering example for the WW60BC grade: TC122-M5-C1-WW60BC

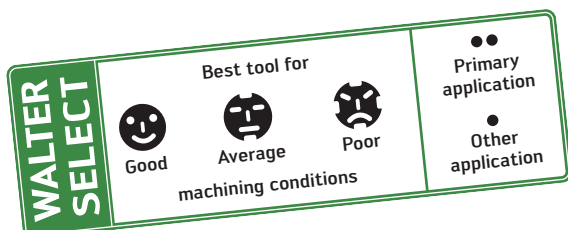
B3

DIN 376



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WW60BC
TC122-M12-L1-	M 12	1,75	110	23	83	9	7	10	4	●
TC122-M14-L1-	M 14	2	110	25	81	11	9	12	4	●
TC122-M16-L1-	M 16	2	110	25	68	12	9	12	4	●
TC122-M20-L1-	M 20	2,5	140	30	95	16	12	15	4	●

Ordering example for the WW60BC grade: TC122-M12-L1-WW60BC



HSS-E-PM machine taps Paradur® Ni



– For long-chipping materials

≤
1,5×DN

C=2-3

25°

44HRC
1400
-700
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
TICN	●				●●		
Uncoated	●				●●		

~DIN 371	Designation	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	TICN	uncoated									
	★ 20410206-M2	204102-M2	M 2	0,4	45	8	8	2,8	2,1	5	3
	★ 20410206-M2.5	204102-M2.5	M 2.5	0,45	50	9	30	2,8	2,1	5	3
	★ 20410206-M3	204102-M3	M 3	0,5	56	10	35	3,5	2,7	6	3
	★ 20410206-M4	204102-M4	M 4	0,7	63	13	42	4,5	3,4	6	3
	★ 20410206-M5	204102-M5	M 5	0,8	70	16	16	6	4,9	8	3
	★ 20410206-M6	204102-M6	M 6	1	80	15	23	6	4,9	8	3
	★ 20410206-M8	204102-M8	M 8	1,25	90	18	29,5	8	6,2	9	3
	★ 20410206-M10	204102-M10	M 10	1,5	100	20	33,5	10	8	11	4

DIN 376	Designation	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	TICN	uncoated									
		204602-M12	M 12	1,75	110	23	83	9	7	10	4
		204602-M14	M 14	2	110	25	81	11	9	12	4
		204602-M16	M 16	2	110	25	68	12	9	12	4
		204602-M18	M 18	2,5	125	30	81	14	11	14	5
		204602-M20	M 20	2,5	140	30	95	16	12	15	5

B 3

HSS-E-PM machine taps

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3,5-5

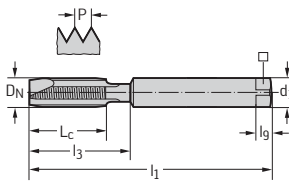
44HRC
1400
-700
N/mm²

MF

DIN 13

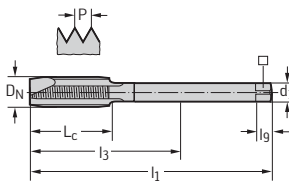
	P	M	K	N	S	H	O
TiCN	●	●	●	●	●	●	●
Uncoated	●	●	●	●	●	●	●

~DIN 371



Designation TiCN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
★ 21216106-M8X0.75	212161-M8X0.75	MF 8x0.75	0,75	80	10	29	8	6,2	9	3
★ 21216106-M8X1	212161-M8X1	MF 8x1	1	90	12	29	8	6,2	9	3

DIN 374



Designation TiCN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
★ 21266106-M10X1.25	212661-M10X1.25	MF 10x1.25	1,25	100	20	77	7	5,5	8	3
★ 21266106-M12X1	212661-M12X1	MF 12x1	1	100	16	73	9	7	10	4
★ 21266106-M12X1.25	212661-M12X1.25	MF 12x1.25	1,25	100	21	73	9	7	10	4
★ 21266106-M12X1.5	212661-M12X1.5	MF 12x1.5	1,5	100	21	73	9	7	10	4
★ 21266106-M14X1	212661-M14X1	MF 14x1	1	100	16	71	11	9	12	4
★ 21266106-M14X1.5	212661-M14X1.5	MF 14x1.5	1,5	100	21	71	11	9	12	4
★ 21266106-M16X1	212661-M16X1	MF 16x1	1	100	18	58	12	9	12	4

B3

HSS-E machine taps TC216 Perform



– For long-chipping materials

$\leq 3 \times DN$

$B=3,5-5$

32HRC
1000
-350
N/mm²

UNC
ASME B1.1

2B

	P	M	K	N	S	H	O
WY80AA	●	●	●	●	●	●	●

DIN 371	Designation	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N	WY80AA
	TC216-UNC6-C0-	UNC 6-32	3,505	56	11	20	4	3	6	3	
	TC216-UNC8-C0-	UNC 8-32	4,166	63	12	21	4,5	3,4	6	3	
	TC216-UNC10-C0-	UNC 10-24	4,826	70	13	25	6	4,9	8	3	
	TC216-UNC1/4-C0-	UNC 1/4-20	6,35	80	15	30	7	5,5	8	3	
	TC216-UNC5/16-C0-	UNC 5/16-18	7,938	90	18	35	8	6,2	9	3	
	TC216-UNC3/8-C0-	UNC 3/8-16	9,525	100	20	39	10	8	11	3	

Ordering example for the WY80AA grade: TC216-UNC6-C0-WY80AA

DIN 376	Designation	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N	WY80AA
	TC216-UNC1/2-L0-	UNC 1/2-13	12,7	110	23	83	9	7	10	4	
	TC216-UNC5/8-L0-	UNC 5/8-11	15,875	110	25	68	12	9	12	4	
	TC216-UNC3/4-L0-	UNC 3/4-10	19,05	125	30	81	14	11	14	4	

Ordering example for the WY80AA grade: TC216-UNC1/2-L0-WY80AA

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

- Primary application
- Other application

B3

HSS-E-PM machine taps Prototex® TiNi



- Recommended with oil
- For long-chipping materials

≤
2×D_N

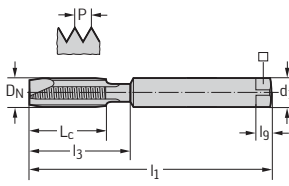
B=3,5-5

44HRC
1400
-700
N/mm²

UNC
ASME B1.1

	P	M	K	N	S	H	O
TiCN	●●	●●	●●	●●	●●	●●	●●
Uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 2184-1

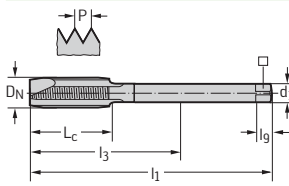


Designation TiCN	Designation uncoated	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
★ 2220706-UNC2	22207-UNC2	UNC 2-56	2,184	45	9	9	2,8	2,1	5	2
★ 2220706-UNC4	22207-UNC4	UNC 4-40	2,845	56	10	10	3,5	2,7	6	2
★ 2220706-UNC6	22207-UNC6	UNC 6-32	3,505	56	12	12	4	3	6	3
★ 2220706-UNC8	22207-UNC8	UNC 8-32	4,166	63	13	13	4,5	3,4	6	3
★ 2220706-UNC10	22207-UNC10	UNC 10-24	4,826	70	16	16	6	4,9	8	3
★ 2220706-UNC1/4	22207-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
★ 2220706-UNC5/16	22207-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
★ 2220706-UNC3/8	22207-UNC3/8	UNC 3/8-16	9,525	100	20	33,5	10	8	11	3

≤ UNC 10: Without reduced neck after the thread

B3

DIN 2184-1



Designation TiCN	Designation uncoated	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
★ 2225706-UNC7/16	22257-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
★ 2225706-UNC1/2	22257-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
★ 2225706-UNC5/8	22257-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4

HSS-E-PM machine taps Prototex® TiNi



- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

UNC
ASME B1.1

2B

	P	M	K	N	S	H	O
TICN	●	●	●	●	●		
Uncoated	●	●	●	●	●		

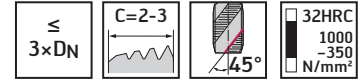
~DIN 2184-1	Designation	Designation	DN-P	DN mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
	TICN	uncoated									
	★ 2221706-UNC2	22217-UNC2	UNC 2-56	2,184	45	9	9	2,8	2,1	5	2
	★ 2221706-UNC4	22217-UNC4	UNC 4-40	2,845	56	10	10	3,5	2,7	6	2
	★ 2221706-UNC5	22217-UNC5	UNC 5-40	3,175	56	10	10	3,5	2,7	6	2
	★ 2221706-UNC6	22217-UNC6	UNC 6-32	3,505	56	12	12	4	3	6	3
	★ 2221706-UNC8	22217-UNC8	UNC 8-32	4,166	63	13	13	4,5	3,4	6	3
	★ 2221706-UNC10	22217-UNC10	UNC 10-24	4,826	70	16	16	6	4,9	8	3
	★ 2221706-UNC1/4	22217-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
	★ 2221706-UNC5/16	22217-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
	★ 2221706-UNC3/8	22217-UNC3/8	UNC 3/8-16	9,525	100	20	33,5	10	8	11	3

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1	Designation	Designation	DN-P	DN mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
	TICN	uncoated									
	★ 2226706-UNC7/16	22267-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
	★ 2226706-UNC1/2	22267-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
	★ 2226706-UNC9/16	22267-UNC9/16	UNC 9/16-12	14,288	110	25	81	11	9	12	4
	★ 2226706-UNC5/8	22267-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4
	★ ^2226706-UNC3/4	22267-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	4

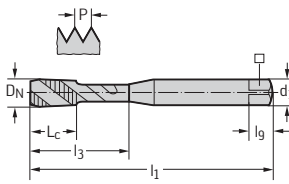
B3

HSS-E machine taps
TC115 Perform



	P	M	K	N	S	H	O
WY80AA	●	●	●	●			

DIN 371

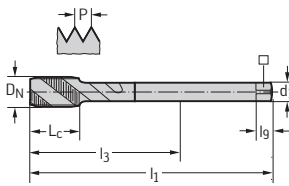


Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA
TC115-UNC6-C0-	UNC 6-32	3,505	56	6,5	20	4	3	6	3	●
TC115-UNC8-C0-	UNC 8-32	4,166	63	7	21	4,5	3,4	6	3	●
TC115-UNC10-C0-	UNC 10-24	4,826	70	8	25	6	4,9	8	3	●
TC115-UNC1/4-C0-	UNC 1/4-20	6,35	80	10	30	7	5,5	8	3	●
TC115-UNC5/16-C0-	UNC 5/16-18	7,938	90	12	35	8	6,2	9	3	●
TC115-UNC3/8-C0-	UNC 3/8-16	9,525	100	15	39	10	8	11	3	●

Ordering example for the WY80AA grade: TC115-UNC6-C0-WY80AA

B3

DIN 376



Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA
TC115-UNC1/2-L0-	UNC 1/2-13	12,7	110	18	83	9	7	10	3	●
TC115-UNC5/8-L0-	UNC 5/8-11	15,875	110	20	68	12	9	12	3	●
TC115-UNC3/4-L0-	UNC 3/4-10	19,05	125	25	81	14	11	14	4	●

Ordering example for the WY80AA grade: TC115-UNC1/2-L0-WY80AA

WALTER SELECT

Best tool for

Good

Average

Poor

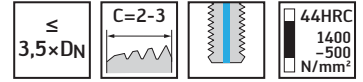
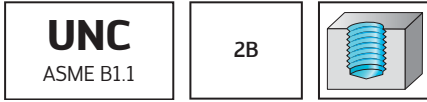
machining conditions

- Primary application
- Other application

HSS-E machine taps Paradur® HT

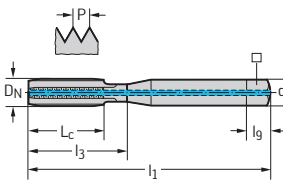


– For long-chipping and short-chipping materials



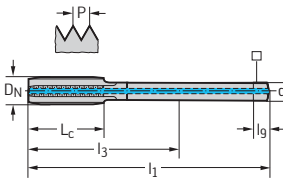
TIN	P	M	K	N	S	H	O
	●		●	●			●

DIN 2184-1



Designation TIN	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
2231115-UNC1/4	UNC 1/4-20	6,35	80	15	30	7	5,5	8	3
2231115-UNC5/16	UNC 5/16-18	7,938	90	18	35	8	6,2	9	3
2231115-UNC3/8	UNC 3/8-16	9,525	100	20	39	10	8	11	3

DIN 2184-1



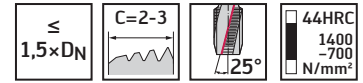
Designation TIN	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
2236115-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	3
2236115-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	3
2236115-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	3
2236115-UNC1	UNC 1"-8	25,4	160	36	113	18	14,5	17	4

B3

HSS-E-PM machine taps Paradur® Ni

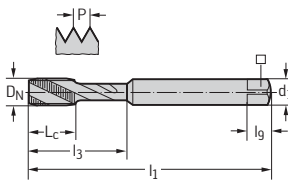


- For long-chipping materials



	P	M	K	N	S	H	O
TICN	●	●	●	●	●	●	●
Uncoated	●	●	●	●	●	●	●

~DIN 2184-1

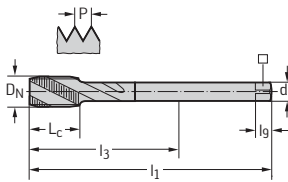


Designation TICN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
★ 22410206-UNC2	224102-UNC2	UNC 2-56	2,184	45	9	9	2,8	2,1	5	3
★ 22410206-UNC3	224102-UNC3	UNC 3-48	2,515	50	9	9	2,8	2,1	5	3
★ 22410206-UNC4	224102-UNC4	UNC 4-40	2,845	56	10	10	3,5	2,7	6	3
★ 22410206-UNC6	224102-UNC6	UNC 6-32	3,505	56	12	12	4	3	6	3
★ 22410206-UNC8	224102-UNC8	UNC 8-32	4,166	63	13	13	4,5	3,4	6	3
★ 22410206-UNC10	224102-UNC10	UNC 10-24	4,826	70	16	16	6	4,9	8	3
★ 22410206-UNC1/4	224102-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
★ 22410206-UNC5/16	224102-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
★ 22410206-UNC3/8	224102-UNC3/8	UNC 3/8-16	9,525	100	20	33,5	10	8	11	4

≤ UNC 10: Without reduced neck after the thread

B3

DIN 2184-1



Designation TICN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
★ 22460206-UNC7/16	224602-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
★ 22460206-UNC1/2	224602-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
★ 22460206-UNC5/8	224602-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4
★ 22460206-UNC3/4	224602-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	5

HSS-E-PM machine taps Prototex® TiNi



- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

UNF
ASME B1.1

3B

	P	M	K	N	S	H	O
TICN	●	●	●	●	●	●	●
Uncoated	●	●	●	●	●	●	●

~DIN 2184-1	Designation	Designation	D _N -P	D _N	l ₁	L _c	l ₃	d ₁	□	l _g	N
	TICN	uncoated		mm	h9 mm						
	★ 2320706-UNF4	23207-UNF4	UNF 4-48	2,845	56	10	10	3,5	2,7	6	2
	★ 2320706-UNF5	23207-UNF5	UNF 5-44	3,175	56	10	10	3,5	2,7	6	2
	★ 2320706-UNF6	23207-UNF6	UNF 6-40	3,505	56	12	12	4	3	6	3
	★ 2320706-UNF8	23207-UNF8	UNF 8-36	4,166	63	13	13	4,5	3,4	6	3
	★ 2320706-UNF10	23207-UNF10	UNF 10-32	4,826	70	16	16	6	4,9	8	3
	★ 2320706-UNF1/4	23207-UNF1/4	UNF 1/4-28	6,35	80	15	25	7	5,5	8	3
	★ 2320706-UNF5/16	23207-UNF5/16	UNF 5/16-24	7,938	90	18	29,5	8	6,2	9	3
	★ 2320706-UNF3/8	23207-UNF3/8	UNF 3/8-24	9,525	100	20	33,5	10	8	11	3

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1	Designation	Designation	D _N -P	D _N	l ₁	L _c	l ₃	d ₁	□	l _g	N
	TICN	uncoated		mm	h9 mm						
	★ 2325706-UNF7/16	23257-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	4
	★ 2325706-UNF1/2	23257-UNF1/2	UNF 1/2-20	12,7	100	23	73	9	7	10	4
	★ 2325706-UNF5/8	23257-UNF5/8	UNF 5/8-18	15,875	100	25	58	12	9	12	4

B3

HSS-E-PM machine taps Prototex® TiNi



- Recommended with oil
- For long-chipping materials

≤
2×D_N

B=3,5-5

44HRC
1400
-700
N/mm²

UNF
ASME B1.1

2B

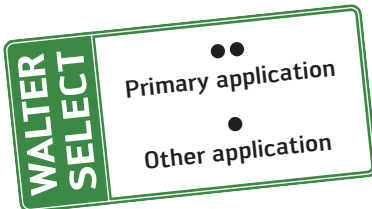
	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●●
Uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 2184-1	Designation	Designation	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
	TICN	uncoated									
	★ 2321706-UNF5	23217-UNF5	UNF 5-44	3,175	56	10	10	3,5	2,7	6	2
	★ 2321706-UNF6	23217-UNF6	UNF 6-40	3,505	56	12	12	4	3	6	3
	★ 2321706-UNF10	23217-UNF10	UNF 10-32	4,826	70	16	16	6	4,9	8	3
	★ 2321706-UNF1/4	23217-UNF1/4	UNF 1/4-28	6,35	80	15	25	7	5,5	8	3
	★ 2321706-UNF5/16	23217-UNF5/16	UNF 5/16-24	7,938	90	18	29,5	8	6,2	9	3
	★ 2321706-UNF3/8	23217-UNF3/8	UNF 3/8-24	9,525	100	20	33,5	10	8	11	3

≤ UNF 10: Without reduced neck after the thread

B3

DIN 2184-1	Designation	Designation	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
	TICN	uncoated									
	★ 2326706-UNF7/16	23267-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	4
	★ 2326706-UNF1/2	23267-UNF1/2	UNF 1/2-20	12,7	100	23	73	9	7	10	4
	★ 2326706-UNF5/8	23267-UNF5/8	UNF 5/8-18	15,875	100	25	58	12	9	12	4



HSS-E-PM machine taps Paradur® Ni



– For long-chipping materials

≤
1,5×DN

C=2-3

25°

44HRC
1400
-700
N/mm²

UNF
ASME B1.1

3B

	P	M	K	N	S	H	O
TICN	●				●●		
Uncoated	●				●●		

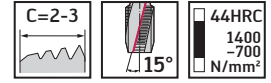
~DIN 2184-1		Designation TICN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	★	23410406-UNF8	234104-UNF8	UNF 8-36	4,166	63	13	42	4,5	3,4	6	3
	★	23410406-UNF10	234104-UNF10	UNF 10-32	4,826	70	16	16	6	4,9	8	3
	★	23410406-UNF12	234104-UNF12	UNF 12-28	5,486	80	15	23	6	4,9	8	3
	★	23410406-UNF1/4	234104-UNF1/4	UNF 1/4-28	6,35	80	15	25	7	5,5	8	3
	★	23410406-UNF5/16	234104-UNF5/16	UNF 5/16-24	7,938	90	18	29,5	8	6,2	9	3
	★	23410406-UNF3/8	234104-UNF3/8	UNF 3/8-24	9,525	100	20	33,5	10	8	11	4

≤ UNF 10: Without reduced neck after the thread

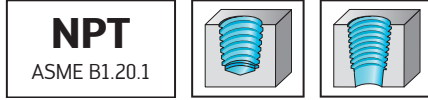
DIN 2184-1		Designation TICN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	★	23460406-UNF7/16	234604-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	4
	★	23460406-UNF1/2	234604-UNF1/2	UNF 1/2-20	12,7	100	23	73	9	7	10	4
	★	23460406-UNF5/8	234604-UNF5/8	UNF 5/8-18	15,875	100	25	58	12	9	12	4

B 3

HSS-E machine taps
Paradur® Ni

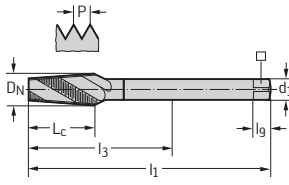


- For long-chipping materials



	P	M	K	N	S	H	O
TICN	●	●	●	●	●●	●	●
Uncoated	●	●	●	●	●●	●	●

PROTOTYPE TOOLS
STANDARD



Designation TICN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
★ 2546706-NPT1/16	25467-NPT1/16	NPT 1/16-27	7,717	27	80	14	56	8	6,2	6	3
★ 2546706-NPT1/8	25467-NPT1/8	NPT 1/8-27	10,065	27	90	14	61	11	9	9	4
★ 2546706-NPT1/4	25467-NPT1/4	NPT 1/4-18	13,372	18	100	20	56	14	11	11	4
★ 2546706-NPT3/8	25467-NPT3/8	NPT 3/8-18	16,812	18	110	20	65	16	12	12	5
★ 2546706-NPT1/2	25467-NPT1/2	NPT 1/2-14	20,947	14	125	26	78	18	14,5	15	5
★ 2546706-NPT3/4	25467-NPT3/4	NPT 3/4-14	26,292	14	140	26	75	22	18	18	5
★ 2546706-NPT1	25467-NPT1	NPT 1"-11.5	32,914	12	150	31	81	28	22	22	5

Taper ratio 1:16

Designation key HSS-E-PM thread former

Example:

T	C	4	20	–	M10	–	C	1	–	W	W	60	AD
1	2	3	4	5	6		7	8		Grade			

1	2	3	4
Tool group	Generation	Tool type	Tool type
T Threading		4 Thread formers	20 Universal 200–1200 N/mm ² 30 ISO P 200–1200 N/mm ²

5	6	7	8
1. Delimiters	Thread dimensions	Tolerance/shank type	Modification
– Metric D DIN/ANSI		C 6HX, 2B Reinforced shank E 6GX Reinforced shank L 6HX, 2B Reduced shank N 6HX Reduced shank	0 External coolant without lubrication grooves 1 Axial internal coolant, without lubrication grooves 2 Radial internal coolant 6 External coolant with lubrication grooves E Chamfer form E H Extended shank XL

B3

Grade designation key for solid carbide and HSS-E (PM) cutting tool materials

Example:

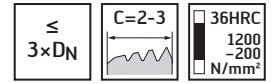
W	W	60	AD
Walter	1	2	3

1	2	3
Substrate	Application range	Coating
Solid carbide HSS-E-PM W HSS-E Y		AD TiN BA TiCN EL AlCrN

HSS-E-PM machine thread formers TC420 Supreme

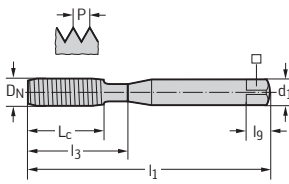


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174

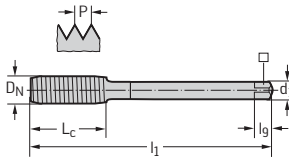


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-C0-	M 2	0,4	45	4	11	2,8	2,1	5	3	✘	✘
TC420-M2.5-C0-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	✘	✘
TC420-M3-C0-	M 3	0,5	56	6	18	3,5	2,7	6	4	✘	✘
TC420-M3.5-C0-	M 3.5	0,6	56	7	20	4	3	6	4	✘	✘
TC420-M4-C0-	M 4	0,7	63	7	21	4,5	3,4	6	5	✘	✘
TC420-M5-C0-	M 5	0,8	70	8	25	6	4,9	8	5	✘	✘
TC420-M6-C0-	M 6	1	80	10	30	6	4,9	8	5	✘	✘
TC420-M8-C0-	M 8	1,25	90	12	35	8	6,2	9	5	✘	✘
TC420-M10-C0-	M 10	1,5	100	15	39	10	8	11	6	✘	✘

Ordering example for the WW60AD grade: TC420-M2-C0-WW60AD

B3

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-L0-	M 12	1,75	110	16	83	9	7	10	6	✘	✘
TC420-M14-L0-	M 14	2	110	20	81	11	9	12	6	✘	✘
TC420-M16-L0-	M 16	2	110	20	68	12	9	12	6	✘	✘
TC420-M20-L0-	M 20	2,5	140	25	95	16	12	15	7	✘	

Ordering example for the WW60AD grade: TC420-M12-L0-WW60AD

HSS-E-PM machine thread formers TC420 Supreme



– For long-chipping materials

≤
3×DN

C=2-3

36HRC
1200
-200
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M5-C1-	M 5	0,8	70	8	25	6	4,9	8	5		✘	✘
TC420-M6-C1-	M 6	1	80	10	30	6	4,9	8	5		✘	✘
TC420-M8-C1-	M 8	1,25	90	12	35	8	6,2	9	5		✘	✘
TC420-M10-C1-	M 10	1,5	100	15	39	10	8	11	6		✘	✘

Ordering example for the WW60AD grade: TC420-M5-C1-WW60AD

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M12-L1-	M 12	1,75	110	16	83	9	7	10	6		✘	✘
TC420-M14-L1-	M 14	2	110	20	81	11	9	12	6		✘	✘
TC420-M16-L1-	M 16	2	110	20	68	12	9	12	6		✘	✘

Ordering example for the WW60AD grade: TC420-M12-L1-WW60AD

WALTER SELECT

Best tool for

😊
Good

😐
Average

😞
Poor

machining conditions

●● Primary application

● Other application

B3

HSS-E-PM machine thread formers TC420 Supreme

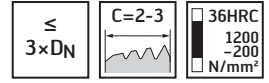


- For long-chipping materials



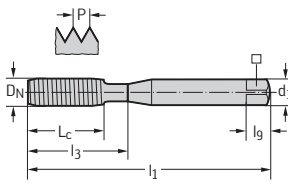
M
DIN 13

6GX



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174

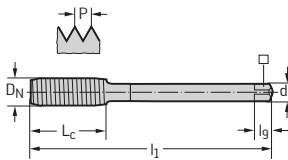


Designation	D _N	P mm	l ₁ mm	L _C mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-E0-	M 2	0,4	45	4	11	2,8	2,1	5	3	✘	✘
TC420-M2.5-E0-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	✘	✘
TC420-M3-E0-	M 3	0,5	56	6	18	3,5	2,7	6	4	✘	✘
TC420-M3.5-E0-	M 3.5	0,6	56	7	20	4	3	6	4	✘	✘
TC420-M4-E0-	M 4	0,7	63	7	21	4,5	3,4	6	5	✘	✘
TC420-M5-E0-	M 5	0,8	70	8	25	6	4,9	8	5	✘	✘
TC420-M6-E0-	M 6	1	80	10	30	6	4,9	8	5	✘	✘
TC420-M8-E0-	M 8	1,25	90	12	35	8	6,2	9	5	✘	✘
TC420-M10-E0-	M 10	1,5	100	15	39	10	8	11	6	✘	✘

Ordering example for the WW60AD grade: TC420-M2-E0-WW60AD

B3

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _C mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-N0-	M 12	1,75	110	16	83	9	7	10	6	✘	
TC420-M14-N0-	M 14	2	110	20	81	11	9	12	6	✘	
TC420-M16-N0-	M 16	2	110	20	68	12	9	12	6	✘	

Ordering example for the WW60AD grade: TC420-M12-N0-WW60AD

HSS-E-PM machine thread formers TC420 Supreme



– For long-chipping materials

$\leq 3,5 \times D_N$

$C=2-3$

36HRC
 1200
 -200
 N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M2-C6-	M 2	0,4	45	4	11	2,8	2,1	5	3		✘	✘
TC420-M2.5-C6-	M 2.5	0,45	50	4	14	2,8	2,1	5	3		✘	✘
TC420-M3-C6-	M 3	0,5	56	6	18	3,5	2,7	6	4		✘	✘
TC420-M3.5-C6-	M 3.5	0,6	56	7	20	4	3	6	4		✘	✘
TC420-M4-C6-	M 4	0,7	63	7	21	4,5	3,4	6	5		✘	✘
TC420-M5-C6-	M 5	0,8	70	8	25	6	4,9	8	5		✘	✘
TC420-M6-C6-	M 6	1	80	10	30	6	4,9	8	5		✘	✘
TC420-M8-C6-	M 8	1,25	90	12	35	8	6,2	9	5		✘	✘
TC420-M10-C6-	M 10	1,5	100	15	39	10	8	11	6		✘	✘

Ordering example for the WW60AD grade: TC420-M2-C6-WW60AD

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M12-L6-	M 12	1,75	110	16	83	9	7	10	6		✘	✘
TC420-M14-L6-	M 14	2	110	20	81	11	9	12	6		✘	✘
TC420-M16-L6-	M 16	2	110	20	68	12	9	12	6		✘	✘
TC420-M20-L6-	M 20	2,5	140	25	95	16	12	15	7		✘	✘

Ordering example for the WW60AD grade: TC420-M12-L6-WW60AD

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

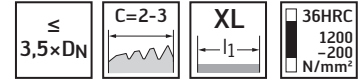
● Other application

B3

HSS-E-PM machine thread formers TC420 Supreme



- For long-chipping materials



P	M	K	N	S	H	O
●	●	●	●	●		

WW60AD

~DIN376 XL

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60AD
TC420-M3-CH-*	M 3	0,5	125	6	18	3,5	2,7	6	4	●
TC420-M4-CH-*	M 4	0,7	125	7	21	4,5	3,4	6	5	●
TC420-M5-CH-*	M 5	0,8	140	8	25	6	4,9	8	5	●
TC420-M6-CH-*	M 6	1	160	10	30	6	4,9	8	5	●

Ordering example for the WW60AD grade: TC420-M3-CH-WW60AD

B3

~DIN376 XL

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60AD
TC420-M8-LH-*	M 8	1,25	180	18	157	6	4,9	8	5	●
TC420-M10-LH-*	M 10	1,5	200	20	177	7	5,5	8	6	●
TC420-M12-LH-*	M 12	1,75	220	23	193	9	7	10	6	●
TC420-M16-LH-*	M 16	2	220	25	178	12	9	12	6	●

Ordering example for the WW60AD grade: TC420-M8-LH-WW60AD

● / ★ New addition to the product range

HSS-E-PM machine thread formers TC420 Supreme



- For long-chipping materials

$\leq 3,5 \times DN$	C=2-3		36HRC 1200 -200 N/mm ²
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M DIN 13	6HX		
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	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N		WW60AD	WW60BA
TC420-M5-C2-	M 5	0,8	70	8	25	6	4,9	8	5		✘	✘
TC420-M6-C2-	M 6	1	80	10	30	6	4,9	8	5		✘	✘
TC420-M8-C2-	M 8	1,25	90	12	35	8	6,2	9	5		✘	✘
TC420-M10-C2-	M 10	1,5	100	15	39	10	8	11	6		✘	✘

Ordering example for the WW60AD grade: TC420-M5-C2-WW60AD

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N		WW60AD	WW60BA
TC420-M12-L2-	M 12	1,75	110	16	83	9	7	10	6		✘	✘
TC420-M14-L2-	M 14	2	110	20	81	11	9	12	6		✘	✘
TC420-M16-L2-	M 16	2	110	20	68	12	9	12	6		✘	✘
TC420-M20-L2-	M 20	2,5	140	25	95	16	12	15	7		✘	✘

Ordering example for the WW60AD grade: TC420-M12-L2-WW60AD

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

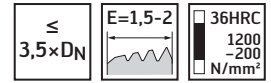
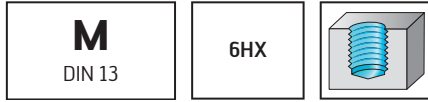
● Other application

B3

HSS-E-PM machine thread formers TC420 Supreme

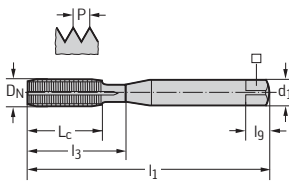


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174

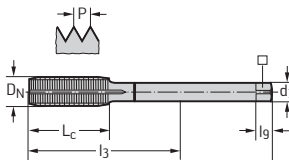


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-CE-	M 2	0,4	45	4	11	2,8	2,1	5	3	✱	✱
TC420-M2.5-CE-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	✱	✱
TC420-M3-CE-	M 3	0,5	56	6	18	3,5	2,7	6	4	✱	✱
TC420-M3.5-CE-	M 3.5	0,6	56	7	20	4	3	6	4	✱	✱
TC420-M4-CE-	M 4	0,7	63	7	21	4,5	3,4	6	5	✱	✱
TC420-M5-CE-	M 5	0,8	70	8	25	6	4,9	8	5	✱	✱
TC420-M6-CE-	M 6	1	80	10	30	6	4,9	8	5	✱	✱
TC420-M8-CE-	M 8	1,25	90	12	35	8	6,2	9	5	✱	✱
TC420-M10-CE-	M 10	1,5	100	15	39	10	8	11	6	✱	✱

Ordering example for the WW60AD grade: TC420-M2-CE-WW60AD

B3

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-LE-	M 12	1,75	110	16	83	9	7	10	6	✱	✱
TC420-M14-LE-	M 14	2	110	20	81	11	9	12	6	✱	✱
TC420-M16-LE-	M 16	2	110	20	68	12	9	12	6	✱	✱

Ordering example for the WW60AD grade: TC420-M12-LE-WW60AD

HSS-E-PM machine thread formers TC420 Supreme



– For long-chipping materials

$\leq 3,5 \times D_N$	C=2-3	36HRC 1200 -200 N/mm ²
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M DIN 13	6GX		
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	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M2-E6-	M 2	0,4	45	4	11	2,8	2,1	5	3		✘	✘
TC420-M2.5-E6-	M 2.5	0,45	50	4	14	2,8	2,1	5	3		✘	✘
TC420-M3-E6-	M 3	0,5	56	6	18	3,5	2,7	6	4		✘	✘
TC420-M3.5-E6-	M 3.5	0,6	56	7	20	4	3	6	4		✘	✘
TC420-M4-E6-	M 4	0,7	63	7	21	4,5	3,4	6	5		✘	✘
TC420-M5-E6-	M 5	0,8	70	8	25	6	4,9	8	5		✘	✘
TC420-M6-E6-	M 6	1	80	10	30	6	4,9	8	5		✘	✘
TC420-M8-E6-	M 8	1,25	90	12	35	8	6,2	9	5		✘	✘
TC420-M10-E6-	M 10	1,5	100	15	39	10	8	11	6		✘	✘

Ordering example for the WW60AD grade: TC420-M2-E6-WW60AD

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M12-N6-	M 12	1,75	110	16	83	9	7	10	6		✘	
TC420-M14-N6-	M 14	2	110	20	81	11	9	12	6		✘	
TC420-M16-N6-	M 16	2	110	20	68	12	9	12	6		✘	

Ordering example for the WW60AD grade: TC420-M12-N6-WW60AD

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

B3

HSS-E-PM machine thread formers TC420 Supreme



- For long-chipping materials



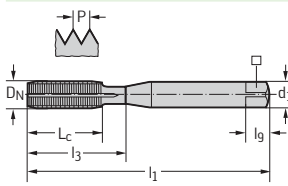
M
DIN 13

6GX

≤ 3,5×DN E=1,5-2 36HRC
1200-200 N/mm²

	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174

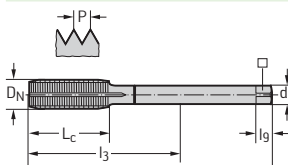


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-EE-	M 2	0,4	45	4	11	2,8	2,1	5	3	★	★
TC420-M2.5-EE-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	★	★
TC420-M3-EE-	M 3	0,5	56	6	18	3,5	2,7	6	4	★	★
TC420-M4-EE-	M 4	0,7	63	7	21	4,5	3,4	6	5	★	★
TC420-M5-EE-	M 5	0,8	70	8	25	6	4,9	8	5	★	★
TC420-M6-EE-	M 6	1	80	10	30	6	4,9	8	5	★	★
TC420-M8-EE-	M 8	1,25	90	12	35	8	6,2	9	5	★	★
TC420-M10-EE-	M 10	1,5	100	15	39	10	8	11	6	★	★

Ordering example for the WW60AD grade: TC420-M2-EE-WW60AD

B3

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-NE-	M 12	1,75	110	16	83	9	7	10	6	★	
TC420-M14-NE-	M 14	2	110	20	81	11	9	12	6	★	
TC420-M16-NE-	M 16	2	110	20	68	12	9	12	6	★	

Ordering example for the WW60AD grade: TC420-M12-NE-WW60AD

HSS-E-PM machine thread formers TC430 Supreme



– For long-chipping materials

$\leq 3,5 \times D_N$	C=2-3	36HRC 1200 -200 N/mm ²
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M DIN 13	6HX		
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	P	M	K	N	S	H	O
WW60AD	●	●	●	●			
WW60EL	●	●	●	●			

DIN 2174											WW60AD	WW60EL
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N			
TC430-M3-C6-	M 3	0,5	56	6	18	3,5	2,7	6	4			✘
TC430-M4-C6-	M 4	0,7	63	7	21	4,5	3,4	6	5			✘
TC430-M5-C6-	M 5	0,8	70	8	25	6	4,9	8	5			✘
TC430-M6-C6-	M 6	1	80	10	30	6	4,9	8	5			✘
TC430-M8-C6-	M 8	1,25	90	12	35	8	6,2	9	6		✘	✘
TC430-M10-C6-	M 10	1,5	100	15	39	10	8	11	7		✘	✘

Ordering example for the WW60AD grade: TC430-M8-C6-WW60AD

DIN 2174											WW60AD	WW60EL
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N			
TC430-M12-L6-	M 12	1,75	110	16	83	9	7	10	8		✘	✘
TC430-M16-L6-	M 16	2	110	20	68	12	9	12	8		✘	✘

Ordering example for the WW60AD grade: TC430-M12-L6-WW60AD

WALTER SELECT

Best tool for machining conditions

Good
 Average
 Poor

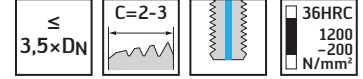
●● Primary application
 ● Other application

B 3

HSS-E-PM machine thread formers TC430 Supreme



- For long-chipping materials



P	M	K	N	S	H	O
●	●	●	●			

DIN 2174											WW60AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC430-M8-C1-	M 8	1,25	90	12	35	8	6,2	9	6	✱	
TC430-M10-C1-	M 10	1,5	100	15	39	10	8	11	7	✱	

Ordering example for the WW60AD grade: TC430-M8-C1-WW60AD

B3

DIN 2174											WW60AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC430-M12-L1-	M 12	1,75	110	16	83	9	7	10	8	✱	
TC430-M16-L1-	M 16	2	110	20	68	12	9	12	8	✱	

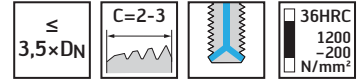
Ordering example for the WW60AD grade: TC430-M12-L1-WW60AD

✱ / ★ New addition to the product range

HSS-E-PM machine thread formers TC430 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●			

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
		TC430-M8-C2-	M 8	1,25	90	12	35	8	6,2	9	6	●
		TC430-M10-C2-	M 10	1,5	100	15	39	10	8	11	7	●

Ordering example for the WW60AD grade: TC430-M8-C2-WW60AD

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
		TC430-M12-L2-	M 12	1,75	110	16	83	9	7	10	8	●
		TC430-M16-L2-	M 16	2	110	20	68	12	9	12	8	●

Ordering example for the WW60AD grade: TC430-M12-L2-WW60AD

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

B3

HSS-E-PM machine thread formers TC430 Supreme

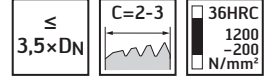


- For long-chipping materials



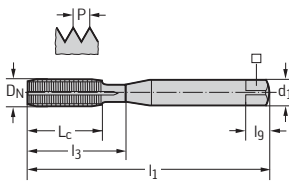
M
DIN 13

6GX



	P	M	K	N	S	H	O
WW60AD	●	●	●	●			

DIN 2174

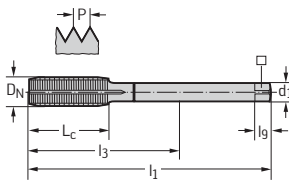


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
TC430-M8-E6-	M 8	1,25	90	12	35	8	6,2	9	6	★
TC430-M10-E6-	M 10	1,5	100	15	39	10	8	11	7	★

Ordering example for the WW60AD grade: TC430-M8-E6-WW60AD

B3

DIN 2174



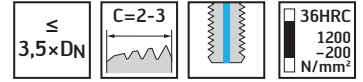
Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
TC430-M12-N6-	M 12	1,75	110	16	83	9	7	10	8	★
TC430-M16-N6-	M 16	2	110	20	68	12	9	12	8	★

Ordering example for the WW60AD grade: TC430-M12-N6-WW60AD

HSS-E-PM machine thread formers TC420 Supreme



- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
		TC420-M8X1-L1-	MF 8x1	1	90	12	67	6	4,9	8	5	✳
		TC420-M10X1-L1-	MF 10x1	1	90	12	67	7	5,5	8	6	✳
		TC420-M12X1-L1-	MF 12x1	1	100	13	73	9	7	10	6	✳
		TC420-M12X1.5-L1-	MF 12x1.5	1,5	100	13	73	9	7	10	6	✳
		TC420-M14X1.5-L1-	MF 14x1.5	1,5	100	15	71	11	9	12	6	✳

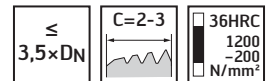
Ordering example for the WW60AD grade: TC420-M8X1-L1-WW60AD

B3

HSS-E-PM machine thread formers TC420 Supreme



- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

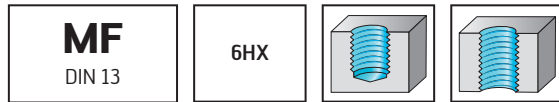
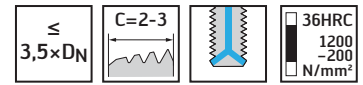
DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA	
		TC420-M8X1-L6-	MF 8x1	1	90	12	67	6	4,9	8	5	✳	✳	
		TC420-M10X1-L6-	MF 10x1	1	90	12	67	7	5,5	8	6	✳	✳	
		TC420-M12X1-L6-	MF 12x1	1	100	13	73	9	7	10	6	✳	✳	
		TC420-M12X1.5-L6-	MF 12x1.5	1,5	100	13	73	9	7	10	6	✳	✳	
		TC420-M14X1-L6-	MF 14x1	1	100	15	71	11	9	12	6	✳	✳	
		TC420-M14X1.25-L6-	MF 14x1.25	1,25	100	15	71	11	9	12	6	✳	✳	
		TC420-M14X1.5-L6-	MF 14x1.5	1,5	100	15	71	11	9	12	6	✳	✳	
		TC420-M16X1.5-L6-	MF 16x1.5	1,5	100	15	58	12	9	12	6	✳	✳	

Ordering example for the WW60AD grade: TC420-M8X1-L6-WW60AD

HSS-E-PM machine thread formers TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
		TC420-M8X1-L2-	MF 8x1	1	90	12	67	6	4,9	8	5	✘	✘
		TC420-M10X1-L2-	MF 10x1	1	90	12	67	7	5,5	8	6	✘	✘
		TC420-M12X1-L2-	MF 12x1	1	100	13	73	9	7	10	6	✘	✘
		TC420-M12X1.5-L2-	MF 12x1.5	1,5	100	13	73	9	7	10	6	✘	✘
		TC420-M14X1.5-L2-	MF 14x1.5	1,5	100	15	71	11	9	12	6	✘	✘
		TC420-M16X1.5-L2-	MF 16x1.5	1,5	100	15	58	12	9	12	6	✘	✘

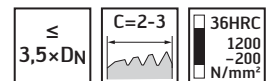
Ordering example for the WW60AD grade: TC420-M8X1-L2-WW60AD

B3

HSS-E-PM machine thread formers TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
		TC420-M8X1-N6-	MF 8x1	1	90	12	67	6	4,9	8	5	✘	✘
		TC420-M10X1-N6-	MF 10x1	1	90	12	67	7	5,5	8	6	✘	✘
		TC420-M12X1-N6-	MF 12x1	1	100	13	73	9	7	10	6	✘	✘
		TC420-M12X1.5-N6-	MF 12x1.5	1,5	100	13	73	9	7	10	6	✘	✘
		TC420-M14X1.5-N6-	MF 14x1.5	1,5	100	15	71	11	9	12	6	✘	✘
		TC420-M16X1.5-N6-	MF 16x1.5	1,5	100	15	58	12	9	12	6	✘	✘

Ordering example for the WW60AD grade: TC420-M8X1-N6-WW60AD

✘ / ★ New addition to the product range

HSS-E-PM machine thread formers TC430 Supreme



- For long-chipping materials

≤
3,5×DN

C=2-3

36HRC
1200
-200
N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
WW60AD	●●	●	●	●			
WW60EL	●●	●	●	●			

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60EL
		TC430-M8X1-L6-	MF 8x1	1	90	12	67	6	4,9	8	6	✘	✘
		TC430-M10X1-L6-	MF 10x1	1	90	12	67	7	5,5	8	7	✘	✘
		TC430-M10X1.25-L6-	MF 10x1.25	1,25	100	15	77	7	5,5	8	7	✘	✘
		TC430-M12X1-L6-	MF 12x1	1	100	13	73	9	7	10	8	✘	✘
		TC430-M12X1.25-L6-	MF 12x1.25	1,25	100	13	73	9	7	10	8	✘	✘
		TC430-M12X1.5-L6-	MF 12x1.5	1,5	100	13	73	9	7	10	8	✘	✘
		TC430-M14X1.5-L6-	MF 14x1.5	1,5	100	15	71	11	9	12	8	✘	✘
		TC430-M16X1.5-L6-	MF 16x1.5	1,5	100	15	58	12	9	12	8	✘	✘

Ordering example for the WW60AD grade: TC430-M8X1-L6-WW60AD

B3

HSS-E-PM machine thread formers TC430 Supreme



- For long-chipping materials

≤
3,5×DN

C=2-3

36HRC
1200
-200
N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
WW60AD	●●	●	●	●			

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
		TC430-M8X1-L1-	MF 8x1	1	90	12	67	6	4,9	8	6	✘
		TC430-M10X1-L1-	MF 10x1	1	90	12	67	7	5,5	8	7	✘
		TC430-M10X1.25-L1-	MF 10x1.25	1,25	100	15	77	7	5,5	8	7	✘
		TC430-M12X1-L1-	MF 12x1	1	100	13	73	9	7	10	8	✘
		TC430-M12X1.25-L1-	MF 12x1.25	1,25	100	13	73	9	7	10	8	✘
		TC430-M12X1.5-L1-	MF 12x1.5	1,5	100	13	73	9	7	10	8	✘
		TC430-M14X1.5-L1-	MF 14x1.5	1,5	100	15	71	11	9	12	8	✘
		TC430-M16X1.5-L1-	MF 16x1.5	1,5	100	15	58	12	9	12	8	✘

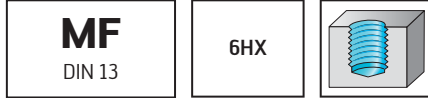
Ordering example for the WW60AD grade: TC430-M8X1-L1-WW60AD

✘ ✘ ✘ / ★ New addition to the product range

HSS-E-PM machine thread formers TC430 Supreme



- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●			

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
		TC430-M8X1-L2-	MF 8x1	1	90	12	67	6	4,9	8	6	★
		TC430-M10X1-L2-	MF 10x1	1	90	12	67	7	5,5	8	7	★
		TC430-M10X1.25-L2-	MF 10x1.25	1,25	100	15	77	7	5,5	8	7	★
		TC430-M12X1-L2-	MF 12x1	1	100	13	73	9	7	10	8	★
		TC430-M12X1.25-L2-	MF 12x1.25	1,25	100	13	73	9	7	10	8	★
		TC430-M12X1.5-L2-	MF 12x1.5	1,5	100	13	73	9	7	10	8	★
		TC430-M14X1.5-L2-	MF 14x1.5	1,5	100	15	71	11	9	12	8	★
		TC430-M16X1.5-L2-	MF 16x1.5	1,5	100	15	58	12	9	12	8	★

Ordering example for the WW60AD grade: TC430-M8X1-L2-WW60AD

B3

Designation key for indexable insert thread milling cutters



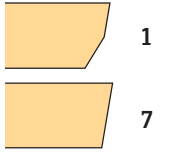
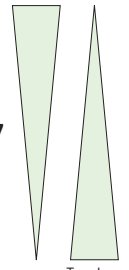
Tool:

T	2	7	11	-	29	-	W	32	-	3	-	09	-	3	-	24
1	2	3	4	5	6		7	8		9		10		11		12

1	2	3	4	5	6
Tool group	Generation	Tool type	Tool type	1. Delimiters	Cutting diameter
T Threading		7 Indexable insert thread milling cutter	11 Universal With triangular insert $2.0 \times D_N$ 12 Universal With triangular insert $2.5 \times D_N$ 13 Universal With triangular insert $3.0 \times D_N$ /modular	- Metric . Inch	
7	8	9	10	11	12
Adaptor type	Adaptor size	Number of teeth	Insert size	Number of cutting rows	Cutting row spacing
W Weldon shank C Walter Capto™					

Indexable insert:

P26300	-	09	02	-	D	6	7	W	SM	37	S
1		2	3		4	5	6	Walter	7	8	9

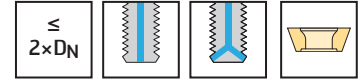
1	2	3	4	5	6
Family	Insert size	Insert radius	Chip breaker groove	Cutting edge	Flank face design
26300 Triangular thread milling cutter insert, positive	06 09 11 14	01 = 0,1 mm 02 = 0,2 mm 04 = 0,4 mm	 $D = 10^\circ$	 6	 1 7
7	8		9		
Application	ISO application range		Generation		
SM Can be used universally with ISO P, M, K, S and H materials	Wear resistance  37 Toughness		Cutting tool materials for: 7 thread milling S Tiger-tec® Silver		

B4

Indexable insert thread milling cutter

T2711 mm


- Radius correction values: See technical information
- D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



T2711	P	M	K	N	S	H	O
	●	●	●	●	●	●	●

Tool		Designation	D _N	P _{max} mm	D _c mm	l ₂₁ mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	No. of indexable inserts	Type
Shank DIN 1835 B		T2711-19-W20-3-06-2-24	M 24	3,00	19	24	51	110	20	3	6	P26300-06 ..
		T2711-24-W25-3-09-2-31.5	M 30	3,50	24	31,5	64,5	132	25	3	6	P26300-09 ..
		T2711-52-W40-4-14-2-60	M 64	6,00	52	60	135	217	40	4	8	P26300-14 ..
Shank DIN 1835 B		T2711-29-W32-3-09-3-24	M 36	4,00	29	24	76,5	149	32	3	9	P26300-09 ..
		T2711-35-W32-3-11-3-27	M 42	4,50	35	27	89,5	160	32	3	9	P26300-11 ..
		T2711-40-W40-3-14-3-30	M 48	5,00	40	30	103	187	40	3	9	P26300-14 ..
		T2711-44-W40-3-14-3-33	M 56	5,50	44	33	119	202	40	3	9	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		19	24–29	35	40–52
	Clamping screw for indexable insert	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm
	Coolant screw	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm

Accessories

D _c [mm]		19	24–35	40–52
	Torque screwdriver, analogue	FS2001	FS2001	FS2003
	Tightening torque	0,4–1,2 Nm	0,4–1,2 Nm	1,5–5,0 Nm
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2013 (Torx 9IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1484 (Torx 9IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O						
							HC	HC	HC	HC	HC	HC	HC	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S
	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC						
		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC						
	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC						
		0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC						
11	0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	HC							
		0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	HC						
	0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	HC							
	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC						
		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC						
	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC						
		0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC						
11	0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	HC							
		0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	HC						
	0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	HC							

HC = Coated carbide

B4

Tool selection

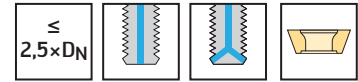
Metric thread			Coarse pitch thread						Fine pitch thread														
Family	Body designation	l ₃ [mm]	M24 / M27	M30 / M33	M36 / M39	M42 / M45	M48 / M52	M56 / M59	M64 / M68	D _N [mm]	P [mm]												
			1,5	2	2,5	3	3,5	4	4,5		5	5,5	6										
T2711	T2711-19-W20-3-06-2-24	51	0602							≥ 24	0601	0601		0602									
	T2711-24-W25-3-09-2-31.5	64,5		0902						≥ 30	0901			0902									
	T2711-29-W32-3-09-3-24	76,5			0902					≥ 36	0901	0901		0902		0902							
	T2711-35-W32-3-11-3-27	89,5				1102				≥ 42				1102			1102						
	T2711-40-W40-3-14-3-30	103					1404			≥ 48	1401	1401	1401	1402					1404				
	T2711-44-W40-3-14-3-33	119						1404		≥ 56	1401			1402						1404			
T2711-52-W40-4-14-2-60	135							1404	≥ 64	1401	1401	1401	1402		1402			1404				1404	

Example: With the T2711-29-W32-3-09-3-24 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902..), an M36 or M39 thread can be produced. Additionally, this body/indexable insert combination can be used to produce fine-pitch threads with a pitch of 3 or 4 mm, when the nominal diameter is ≥ 36 mm.

Indexable insert thread milling cutter

T2712 mm


– Radius correction values: See technical information
 – D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2712	●	●	●	●	●		●

Tool	Designation	D _N	P _{max} mm	P _{max} TPI	D _c mm	l ₂₁ mm	L _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	No. of index- able inserts	Type
Shank DIN 1835 B 	T2712-24-W25-3-09-2-31.5	M 30	3,50	-	24	31,5	63	79,5	147	25	3	6	P26300-09 ..
	T2712-29-W32-3-09-2-36	M 36	4,00	-	29	36	72	94,5	167	32	3	6	P26300-11 ..
	T2712-35-W32-3-11-2-40.5	M 42	4,50	-	35	40,5	81	110,5	180	32	3	6	P26300-14 ..
	T2712-40-W40-3-14-2-50	M 48	5,00	-	40	50	100	127	211	40	3	6	P26300-14 ..
Shank DIN 1835 B 	★ T2712-19-W20-3-06	M24	3,00	8	19	-	-	63	123	20	3	3	P26300-06 ..
	★ T2712-24-W25-3-09	M30	3,50	7	24	-	-	79,5	148	25	3	3	P26300-09 ..
	★ T2712-29-W32-3-09	M36	4,00	6	29	-	-	94,5	167	32	3	3	P26300-11 ..
	★ T2712-35-W32-3-11	M42	4,50	6	35	-	-	110,5	181	32	3	3	P26300-11 ..
	★ T2712-40-W40-3-14	M48	5,00	5	40	-	-	127	211	40	3	3	P26300-14 ..
	★ T2712-44-W40-3-14	M56	5,50	5	44	-	-	147	230	40	3	3	P26300-14 ..
	★ T2712-52-W40-4-14	M64	6,00	4	52	-	-	167	249	40	4	4	P26300-14 ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		19	24–29	35	40–52
	Clamping screw for indexable insert	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm
	Coolant screw	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm

Accessories

D _c [mm]		19	24–35	40–52
	Torque screwdriver, analogue	FS2001	FS2001	FS2003
	Tightening torque	0,4–1,2 Nm	0,4–1,2 Nm	1,5–5,0 Nm
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2013 (Torx 9IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1484 (Torx 9IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O				
							HC	HC	HC	HC	HC	HC	HC	HC			
	6	0,1	1,50–2,50	18–10	6,73	3	✔	✔	✔	✔	✔	✔	✔				
		0,2	3,00	8	6,58	3	✔	✔	✔	✔	✔	✔	✔				
	9	0,1	1,50–2,50	18–10	9,48	3	✔	✔	✔	✔	✔	✔	✔				
		0,2	3,00–4,00	8–6	9,34	3	✔	✔	✔	✔	✔	✔	✔				
	11	0,2	3,00–4,50	8–6	10,71	3	✔	✔	✔	✔	✔	✔	✔				
		0,1	1,50–2,50	18–10	13,87	3	✔	✔	✔	✔	✔	✔	✔				
14	0,2	3,00–4,50	8–6	13,72	3	✔	✔	✔	✔	✔	✔	✔					
	0,4	5,00–6,00	5–4	13,43	3	✔	✔	✔	✔	✔	✔	✔					
	6	0,1	1,50–2,50	18–10	6,73	3	✘	✘	✘	✘	✘	✘	✘				
		0,2	3,00	8	6,58	3	✘	✘	✘	✘	✘	✘	✘				
	9	0,1	1,50–2,50	18–10	9,48	3	✘	✘	✘	✘	✘	✘	✘				
		0,2	3,00–4,00	8–6	9,34	3	✘	✘	✘	✘	✘	✘	✘				
	11	0,1	1,50–2,50	18–10	10,85	3	✘	✘	✘	✘	✘	✘	✘				
		0,2	3,00–4,50	8–6	10,71	3	✘	✘	✘	✘	✘	✘	✘				
	14	0,1	1,50–2,50	18–10	13,87	3	✘	✘	✘	✘	✘	✘	✘				
		0,2	3,00–4,50	8–6	13,72	3	✘	✘	✘	✘	✘	✘	✘				
		0,4	5,00–6,00	5–4	13,43	3	✘	✘	✘	✘	✘	✘	✘				

HC = Coated carbide

Tool selection

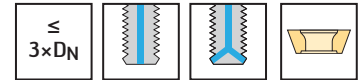
Metric thread			Coarse pitch thread						Fine pitch thread														
Family	Body designation	l ₃ [mm]	M24 / M30 / M36 / M42 / M48 / M56 / M64 / M27 M33 M39 M45 M52 M59 M68						D _N [mm]	P [mm]													
			1,5	2	2,5	3	3,5	4		4,5	5	5,5	6										
T2712	T2712-24-W25-3-09-2-31.5	79,5		0902					≥ 30	0901				0902									
	T2712-29-W32-3-09-2-36	94,5			0902				≥ 36	0901	0901		0902		0902								
	T2712-35-W32-3-11-2-40.5	110,5				1102			≥ 42	1101								1102					
	T2712-40-W40-3-14-2-50	127						1404	≥ 48		1401	1401									1404		
T2712	T2712-19-W20-3-06	63	0602						≥ 24		0601		0602										
	T2712-24-W25-3-09	79,5		0902					≥ 30		0901		0902										
	T2712-29-W32-3-09	94,5			0902				≥ 36		0901		0902										
	T2712-35-W32-3-11	110,5				1102			≥ 42		1101			1102									
	T2712-40-W40-3-14	127					1404		≥ 48		1401			1402				1404					
	T2712-44-W40-3-14	147						1404	≥ 56		1401			1402					1404				
T2712-52-W40-4-14	167							≥ 64		1401			1402							1404			

Example: With the T2712-29-W32-3-09-2-36 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902..), an M36 or M39 thread can be produced. Additionally, this body/indexable insert combination can be used to produce fine-pitch threads with a pitch of 3 or 4 mm, when the nominal diameter is ≥ 36 mm.

Indexable insert thread milling cutter

T2713 mm


– Radius correction values: See technical information
 – D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2713	●	●	●	●	●		●

Tool		Designation	D _N	P _{max} mm	P _{max} TPI	D _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	No. of indexable inserts	Type
Shank DIN 1835 B 	★	T2713-19-W20-3-06	M24	3,00	8	19	75	135	20	3	3	P26300-06 ..
	★	T2713-24-W25-3-09	M30	3,50	7	24	94,5	163	25	3	3	P26300-09 ..
	★	T2713-29-W32-3-09	M36	4,00	6	29	112,5	185	32	3	3	P26300-11 ..
	★	T2713-35-W32-3-11	M42	4,50	6	35	131,5	202	32	3	3	P26300-11 ..
	★	T2713-40-W40-3-14	M48	5,00	5	40	151	235	40	3	3	P26300-14 ..
	★	T2713-44-W40-3-14	M56	5,50	5	44	175	258	40	3	3	P26300-14 ..
	★	T2713-52-W40-4-14	M64	6,00	4	52	199	281	40	4	4	P26300-14 ..
Walter Capto™ in acc. with ISO 26623 	★	T2713-60-C5-4-14	M72	6,00	4	60	115	152	50	4	4	P26300-14 ..
	★	T2713-73-C6-5-14	M85	6,00	4	73	125	170	63	5	5	P26300-14 ..

Bodies and assembly parts are included in the scope of delivery.

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Assembly parts

D _c [mm]	19	24–29	35	40–73	
	Clamping screw for indexable insert	FS2147 (Torx 6IP) 0,6 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS1457 (Torx 9IP) 2,0 Nm
	Coolant screw	FS2147 (Torx 6IP) 0,6 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS1457 (Torx 9IP) 2,0 Nm

Accessories

D _c [mm]	19	24–35	40–73	
	Torque screwdriver, analogue	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm
	Tightening torque	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2013 (Torx 9IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1484 (Torx 9IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O				
							HC	HC	HC	HC	HC	HC	HC	HC	WSM37S	WSM37S	WSM37S
	P26300-0601-D67	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0602-D67	0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0901-D67	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0902-D67	0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1102-D67	0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	HC				
		P26300-1401-D67	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	HC			
P26300-1402-D67		0,2	3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	HC				
P26300-1404-D67		0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0601-D61	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0602-D61	0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC				
		P26300-0901-D61	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC			
P26300-0902-D61		0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1101-D61	0,1	1,50–2,50	18–10	10,85	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1102-D61	0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1401-D61	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1402-D61	0,2	3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1404-D61	0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	HC				

HC = Coated carbide

Tool selection

Metric thread			Coarse pitch thread						Fine pitch thread								
Family	Body designation	l ₃ [mm]	M24 / M27	M30 / M33	M36 / M39	M42 / M45	M48 / M52	M56 / M59	M64 / M68	D _N [mm]	P [mm]						
											1,5–2,5	3	3,5	4	4,5	5	5,5
T2713	T2713-19-W20-3-06	75	0602							≥ 24	0601	0602					
	T2713-24-W25-3-09	94,5		0902						≥ 30	0901	0902					
	T2713-29-W32-3-09	112,5			0902					≥ 36	0901	0902					
	T2713-35-W32-3-11	131,5				1102				≥ 42	1101	1102					
	T2713-40-W40-3-14	151					1404			≥ 48	1401	1402			1404		
	T2713-44-W40-3-14	175						1404		≥ 56	1401	1402			1404		
	T2713-52-W40-4-14	199							1404	≥ 64	1401	1402			1404		
	T2713-60-C5-4-14	115								≥ 72	1401	1402			1404		
	T2713-73-C6-5-14	125								≥ 85	1401	1402			1404		

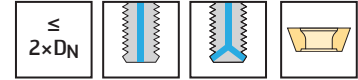
Example: With the T2713-29-W32-3-09 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902...), an M36 or M39 thread can be produced. Additionally, this body/indexable insert combination can be used to produce fine-pitch threads with a pitch of 3 or 4 mm, when the nominal diameter is ≥ 36 mm.

Indexable insert thread milling cutter

T2711 mm



- Radius correction values: See technical information
- D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2711	●	●	●	●	●	●	●

Tool	Designation	D _N	P _{max} TPI	D _c mm	l ₂₁ mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	No. of indexable inserts	Type
Shank DIN 1835 B 	T2711-20-W20-3-06-2-25.4	UNC 1	8	20	25,4	53,9	113	20	3	6	P26300-06 ..
	T2711-26-W25-3-09-2-32.7	UNC 1.1/4	7	26	32,66	68	135	25	3	6	P26300-09 ..
Shank DIN 1835 B 	T2711-31-W32-3-09-3-25.4	UNC 1.1/2	6	31	25,4	80,7	153	32	3	9	P26300-09 ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		20	26-31
	Clamping screw for indexable insert	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)
	Tightening torque	0,6 Nm	0,9 Nm
	Coolant screw	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)
	Tightening torque	0,6 Nm	0,9 Nm

Accessories

D _c [mm]		20	26-31
	Torque screwdriver, analogue	FS2001	FS2001
	Tightening torque	0,4-1,2 Nm	0,4-1,2 Nm
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O						
							HC	HC	HC	HC	HC	HC	HC						
							WSM37S	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S						
	P26300-0601-D67	6	0,1	1,50-2,50	18-10	6,73	3	HC	HC	HC	HC	HC	HC						
	P26300-0602-D67		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC						
	P26300-0901-D67	9	0,1	1,50-2,50	18-10	9,48	3	HC	HC	HC	HC	HC	HC						
P26300-0902-D67		0,2	3,00-4,00	8-6	9,34	3	HC	HC	HC	HC	HC	HC	HC						
P26300-1102-D67	11	0,2	3,00-4,50	8-6	10,71	3	HC	HC	HC	HC	HC	HC	HC						
P26300-1401-D67	14	0,1	1,50-2,50	18-10	13,87	3	HC	HC	HC	HC	HC	HC	HC						
P26300-1402-D67		0,2	3,00-4,50	8-6	13,72	3	HC	HC	HC	HC	HC	HC	HC						
P26300-1404-D67		0,4	5,00-6,00	5-4	13,43	3	HC	HC	HC	HC	HC	HC	HC						
	P26300-0601-D61	6	0,1	1,50-2,50	18-10	6,73	3	HC	HC	HC	HC	HC	HC						
	P26300-0602-D61		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC						
	P26300-0901-D61	9	0,1	1,50-2,50	18-10	9,48	3	HC	HC	HC	HC	HC	HC						
P26300-0902-D61		0,2	3,00-4,00	8-6	9,34	3	HC	HC	HC	HC	HC	HC	HC						
P26300-1101-D61	11	0,1	1,50-2,50	18-10	10,85	3	HC	HC	HC	HC	HC	HC	HC						
P26300-1102-D61		0,2	3,00-4,50	8-6	10,71	3	HC	HC	HC	HC	HC	HC	HC						
P26300-1401-D61	14	0,1	1,50-2,50	18-10	13,87	3	HC	HC	HC	HC	HC	HC	HC						
P26300-1402-D61		0,2	3,00-4,50	8-6	13,72	3	HC	HC	HC	HC	HC	HC	HC						
P26300-1404-D61		0,4	5,00-6,00	5-4	13,43	3	HC	HC	HC	HC	HC	HC	HC						

HC = Coated carbide

Tool selection

UN threads		UNC			UNF					UN							
Family	Body designation	l ₃ [mm]	1"	1 1/4"	1 1/2"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	D _N	TPI					
												18*	16	14	12	8	6
T2711	T2711-20-W20-3-06-2-25.4	53,9	0602			0601	0601	0601	0601	0601	≥ 1,00"	0601	0601	0601	0601	0602	
	T2711-26-W25-3-09-2-32.7	68		0902							≥ 1,25"			0901			
	T2711-31-W32-3-09-3-25.4	80,7			0902					0901	≥ 1,50"	0901	0901	0901	0901	0901	0902

Example: With the T2711-31-W32-3-09-3-25.4 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902.), a UNC 1 1/2" thread can be produced. Additionally, this body/indexable insert combination can be used to produce UN threads with 8 and 6 TPI, when their nominal diameter is ≥ 1.5".

* = UNEF

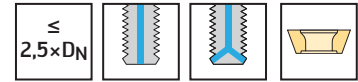
B4

Indexable insert thread milling cutter

T2712



- Radius correction values: See technical information
 - D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2712	●	●	●	●	●		●

Tool	Designation	D _N	P _{max} TPI	P _{max} mm	D _c mm	l ₂₁ mm	L _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	No. of index- able inserts	Type
Shank DIN 1835 B 	★ T2712-26-W25-3-09-2-32.7	UNC 1 1/4	7	-	26	32,66	65,32	84	151	25	3	6	P26300-09 ..
	★ T2712-31-W32-3-09-2-38.1	UNC 1 1/2	6	-	31	38,1	76,2	99,8	172	32	3	6	
Shank DIN 1835 B 	★ T2712-19-W20-3-06	1,00"	8	3,00	19	-	-	63	123	20	3	3	P26300-06 ..
	★ T2712-24-W25-3-09	1,25"	7	3,50	24	-	-	79,5	148	25	3	3	P26300-09 ..
	★ T2712-29-W32-3-09	1,50"	6	4,00	29	-	-	94,5	167	32	3	3	P26300-11 ..
	★ T2712-35-W32-3-11	1,75"	6	4,50	35	-	-	110,5	181	32	3	3	
	★ T2712-40-W40-3-14	2,00"	5	5,00	40	-	-	127	211	40	3	3	
	★ T2712-44-W40-3-14	2,25"	4,5	5,50	44	-	-	147	230	40	3	3	P26300-14 ..
★ T2712-52-W40-4-14	2,75"	4	6,00	52	-	-	167	249	40	4	4		

Bodies and assembly parts are included in the scope of delivery.

B4

Assembly parts

D _c [mm]		19	24–31	35	40–52
	Clamping screw for indexable insert	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm
	Coolant screw	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm

Accessories

D _c [mm]		19	24–31	40–52
	Torque screwdriver, analogue	FS2001	FS2001	FS2003
	Tightening torque	0,4–1,2 Nm	0,4–1,2 Nm	1,5–5,0 Nm
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2013 (Torx 9IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1484 (Torx 9IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O					
							HC	HC	HC	HC	HC	HC	HC	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S
	P26300-0601-D67	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0602-D67		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0901-D67	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0902-D67		0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1102-D67	11	0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1401-D67	14	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	WSM37S				
P26300-1402-D67	0,2		3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	WSM37S					
P26300-1404-D67	0,4		5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	WSM37S					
	P26300-0601-D61	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0602-D61		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0901-D61	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0902-D61		0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1101-D61	11	0,1	1,50–2,50	18–10	10,85	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1102-D61		0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1401-D61	14	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1402-D61		0,2	3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1404-D61		0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	WSM37S				

HC = Coated carbide

Tool selection

UN threads			UNC					UNF					UN					
Family	Body designation	l ₃ [mm]	1"	1 1/4"	1 1/2"	2 1/4" ≥ 2 3/4"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	D _N	TPI					
													18–10	8	6	5	4,5	4
T2712	T2712-26-W25-3-09-2-32.7	83,88		0902								≥ 1,25"						
	T2712-31-W32-3-09-2-38.1	99,75			0902					0901		≥ 1,50"	0901*	0902	0902			
T2712	T2712-19-W20-3-06	63	0602				0601	0601	0601	0601	0601	≥ 1,00"	0601	0602				
	T2712-24-W25-3-09	79,5		0902				0901	0901	0901	0901	≥ 1,25"	0901	0902				
	T2712-29-W32-3-09	94,5			0902					0901	0901	≥ 1,50"	0901	0902				
	T2712-35-W32-3-11	110,5										≥ 1,75"	1101	1102				
	T2712-40-W40-3-14	127										≥ 2,00"	1401	1402	1404			
	T2712-44-W40-3-14	147				1404						≥ 2,25"	1401	1402	1404			
T2712-52-W40-4-14	167					1404					≥ 2,75"	1401	1402	1404				

Example: With the T2712-31-W32-3-09-2-38.1 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902.), a UNC 1 1/2" thread can be produced. Additionally, this body/indexable insert combination can be used to produce UN threads with 8 and 6 TPI, when their nominal diameter is ≥ 1.5".

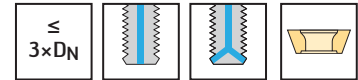
* Exceptions: 13/11.5 and 11 TPI cannot be machined.

Indexable insert thread milling cutter

T2713 mm



– Radius correction values: See technical information
 – D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2713	●	●	●	●	●		●

Tool	Designation	D _N	P _{max} TPI	P _{max} mm	D _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	No. of indexable inserts	Type
Shank DIN 1835 B 	★ T2713-19-W20-3-06	1,00"	8	3,00	19	75	135	20	3	3	P26300-06 ..
	★ T2713-24-W25-3-09	1,25"	7	3,50	24	94,5	163	25	3	3	P26300-09 ..
	★ T2713-29-W32-3-09	1,50"	6	4,00	29	112,5	185	32	3	3	P26300-11 ..
	★ T2713-35-W32-3-11	1,75"	6	4,50	35	131,5	202	32	3	3	P26300-11 ..
	★ T2713-40-W40-3-14	2,00"	5	5,00	40	151	235	40	3	3	P26300-14 ..
	★ T2713-44-W40-3-14	2,25"	4,5	5,50	44	175	258	40	3	3	P26300-14 ..
	★ T2713-52-W40-4-14	2,75"	4	6,00	52	199	281	40	4	4	P26300-14 ..
Walter Capto™ in acc. with ISO 26623 	★ T2713-60-C5-4-14	3,00"	4	6,00	60	115	152	50	4	4	P26300-14 ..
	★ T2713-73-C6-5-14	3,50"	4	6,00	73	125	170	63	5	5	P26300-14 ..

Bodies and assembly parts are included in the scope of delivery.

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Assembly parts

D _c [mm]	19	24–29	35	40–73	
	Clamping screw for indexable insert	FS2147 (Torx 6IP) 0,6 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS1457 (Torx 9IP) 2,0 Nm
	Coolant screw	FS2147 (Torx 6IP) 0,6 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS1457 (Torx 9IP) 2,0 Nm

Accessories

D _c [mm]	19	24–35	40–73	
	Torque screwdriver, analogue	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm
	Tightening torque			
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2013 (Torx 9IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1484 (Torx 9IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O				
							HC	HC	HC	HC	HC	HC	HC	WSM37S	WSM37S	WSM37S	WSM37S
	P26300-0601-D67	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0602-D67	0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0901-D67	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0902-D67	0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1102-D67	0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1401-D67	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1402-D67	0,2	3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1404-D67	0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0601-D61	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0602-D61	0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0901-D61	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-0902-D61	0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1101-D61	0,1	1,50–2,50	18–10	10,85	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1102-D61	0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1401-D61	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1402-D61	0,2	3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	HC				
	P26300-1404-D61	0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	HC				

HC = Coated carbide

Tool selection

UN threads			UNC							UNF				UN						
Family	Body designation	l ₃ [mm]	1"	1 1/4"	1 1/2"	2 1/4"	2 3/4"	≥ 3"	≥ 3 1/2"	1"	1 1/8"	1 1/4"	≥ 1 3/8"	TPI						
			D _N	18–10	8	6	5	4,5	4											
T2713	T2713-19-W20-3-06	75	0602							0601	0601	0601	0601	≥ 1,00"	0601	0602				
	T2713-24-W25-3-09	94,5		0902							0901	0901	0901	≥ 1,25"	0901	0902				
	T2713-29-W32-3-09	112,5			0902								0901	≥ 1,50"	0901	0902				
	T2713-35-W32-3-11	131,5												≥ 1,75"	1101	1102				
	T2713-40-W40-3-14	151												≥ 2,00"	1401	1402	1404			
	T2713-44-W40-3-14	175				1404								≥ 2,25"	1401	1402	1404			
	T2713-52-C5-4-14	199					1404	1404	1404					≥ 2,75"	1401	1402	1404			
	T2713-60-C5-4-14	115						1404	1404					≥ 3,00"	1401	1402	1404			
	T2713-73-C6-5-14	125							1404					≥ 3,50"	1401	1402	1404			

Example: With the T2713-29-W32-3-09 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902.), a UNC 1 1/2" thread can be produced. Additionally, this body/indexable insert combination can be used to produce UN threads with 8 to 6 TPI, when the nominal diameter is ≥ 1.5".

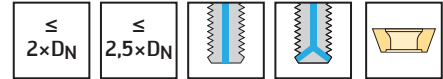
B4

Indexable insert thread milling cutter

T2711 / T2712 inch



– Radius correction values: See technical information
 – D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2711	●	●	●	●	●	●	●
T2712	●	●	●	●	●	●	●

Tool	Designation	D _N	P _{max} TPI	P _{max} mm	D _c Inch	l ₂₁ Inch	l ₃ Inch	l ₁ Inch	d ₁ Inch	Z	No. of index- able inserts	Type
Weldon-Inch 	T2711.20-W19-3-06-2-25.4	UNC 1	8	-	0,787	1,000	2,122	4,461	0,750	3	6	P26300-06 ..
	T2711.26-W26-3-09-2-32.7	UNC 1.1/4	7	-	1,024	1,286	2,677	5,299	1,000	3	6	P26300-09 ..
Weldon-Inch 	T2711.31-W31-3-09-3-25.4	UNC 1.1/2	6	-	1,220	1,000	3,177	5,892	1,250	3	9	P26300-09 ..
Weldon-Inch 	★ T2712.20-W19-3-06	UNC 1	8	3,00	0,787	-	2,618	4,953	0,750	3	3	P26300-06 ..
	★ T2712.23-W26-3-09	UNC 1 1/8	7	3,50	0,886	-	2,992	5,695	1,000	3	3	P26300-09 ..
	★ T2712.28-W31-3-09	UNC 1 3/8	6	4,00	1,083	-	3,622	6,482	1,250	3	3	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		0,787	0,886–1,220
	Clamping screw for indexable insert	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)
	Tightening torque	0,6 Nm	0,9 Nm
	Coolant screw	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)
	Tightening torque	0,6 Nm	0,9 Nm

Accessories

D _c [Inch]		0,787	0,886–1,220
	Torque screwdriver, analogue	FS2002	FS2002
	Tightening torque	0,4–1,2 Nm	0,4–1,2 Nm
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O			
							HC	HC	HC	HC	HC	HC	HC	HC		
	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC			
		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC			
	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC			
		0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC			
	11	0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	HC			
	14	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	HC			
0,2		3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	HC				
0,4		5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	HC				
	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC			
		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC			
	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC			
		0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC			
	11	0,1	1,50–2,50	18–10	10,85	3	HC	HC	HC	HC	HC	HC	HC			
		0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	HC			
	14	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	HC			
		0,2	3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	HC			
		0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	HC			

HC = Coated carbide

Tool selection

UN threads			UNC					UNF					UN			
Family	Body designation	l ₃ [inches]	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	D _N	TPI		
			0602						0601	0601	0601	0601		0601	18–10	8
T2711	T2711.20-W19-3-06-2-25.4	2.122"											≥ 1,000"	0601	0602	
	T2711.26-W26-3-09-2-32.7	2.677"			0902								≥ 1,250"			
	T2711.31-W31-3-09-3-25.4	3.177"					0902						≥ 1,500"	0901	0902	0902
T2712	T2712.20-W19-3-06	2.618"	0602					0601	0601	0601	0601	0601	≥ 1,000"	0601	0602	
	T2712.23-W26-3-09	2.992"		0902	0902				0901	0901	0901	0901	≥ 1,125"	0901	0902	
	T2712.28-W31-3-09	3.622"				0902	0902				0901	0901	≥ 1,375"	0901	0902	0902

Example: With the T2711.31-W31-3-09-3-25.4 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902...), a UNC 1 1/2" thread can be produced. Additionally, this body/indexable insert combination can be used to produce UN threads with 8 or 6 TPI, when the nominal diameter is ≥ 1.5".

Cutting data

Thread formers

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R _m N/mm ²	Machining group ¹	HSS-E thread formers				
						Coated				
						v _c [m/min]				
						1,5 × D _N	2 × D _N	2,5 × D _N		
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	46	37	32	E
		C > 0.25%... ≤ 0.55%	Annealed	190	640	P2	47	38	33	E
		C > 0.25%... ≤ 0.55%	Heat-treated	210	710	P3	29	23	20	E
		C > 0.55%	Annealed	190	640	P4	29	23	20	E
		C > 0.55%	Heat-treated	300	1010	P5	17	14	12	E
	Free-machining steel (short-chipping)	Annealed	220	750	P6	29	23	20	E	
	Low-alloy steel	Annealed		175	590	P7	47	38	33	E
		Heat-treated		285	960	P8	15	12	11	E
		Heat-treated		380	1280	P9				
		Heat-treated		430	1480	P10				
	High-alloy steel and high-alloy tool steel	Annealed		200	680	P11	29	23	20	E
		Hardened and tempered		300	1010	P12	17	14	12	E
		Hardened and tempered		380	1280	P13				
	Stainless steel	Ferritic/martensitic, annealed		200	680	P14	13	10	9	E O
		Martensitic, heat-treated		330	1110	P15	5	4	3	O
M	Stainless steel	Austenitic, quench hardened		200	680	M1	15	12	11	E O
		Austenitic, precipitation hardened (PH)		300	1010	M2	5	4	4	O
		Austenitic/ferritic, duplex		230	780	M3	5	4	4	E O
K	Malleable cast iron	Ferritic		200	400	K1				
		Pearlitic		260	700	K2				
	Grey cast iron	Low tensile strength		180	200	K3				
		High tensile strength/austenitic		245	350	K4				
	Cast iron with spheroidal graphite	Ferritic		155	400	K5	29	23	20	E
		Pearlitic		265	700	K6	14	12	10	E
	GGV (CGI)		230	400	K7					
N	Wrought aluminium alloys	Not hardenable		30	–	N1	56	45	39	E
		Hardenable, hardened		100	340	N2	52	43	37	E
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	260	N3	48	39	34	E
		≤ 12% Si, hardenable, hardened		90	310	N4	48	39	34	E
		> 12% Si, not hardenable		130	450	N5				
	Magnesium alloys		70	250	N6					
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7	21	17	15	E
		Brass, bronze, red brass		90	310	N8				
		Cu alloys, short-chipping		110	380	N9				
		High-tensile, Ampco		300	1010	N10				
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	8	6	5	E
			Hardened	280	940	S2				
		Ni- or Co-based	Annealed	250	840	S3	8	6	5	O
			Hardened	350	1180	S4				
			Cast	320	1080	S5				
	Titanium alloys	Pure titanium		200	680	S6				
		α and β alloys, hardened		375	1260	S7				
		β alloys		410	1400	S8				
	Tungsten alloys		300	1010	S9					
	Molybdenum alloys		300	1010	S10					
H	Hardened steel	Hardened and tempered		50 HRC	–	H1				
		Hardened and tempered		55 HRC	–	H2				
		Hardened and tempered		60 HRC	–	H3				
	Hardened cast iron	Hardened and tempered		55 HRC	–	H4				
O	Thermoplastics	Without abrasive fillers				O1				
	Thermosets	Without abrasive fillers				O2				
	Plastic, glass-fibre-reinforced	GFRP				O3				
	Plastic, carbon-fibre-reinforced	CFRP				O4				
	Plastic, aramid-fibre-reinforced	AFRP				O5				
	Graphite (technical)		80 Shore			O6				

¹ The classification of the machining groups can be found from page B 1174 onwards in the Walter General Catalogue 2017.

³ Water-miscible coolants must not be used when machining magnesium-based alloys.

Cutting data

Thread milling

Material group	= Cooling lubricant recommended E = Emulsion M = MQL A = Compressed air v_c = Cutting speed [m/min] f_z = Feed rate per tooth [mm]		Overview of the main material groups and code letters	Brinell hardness HB	Tensile strength R _m N/mm ²	Machining group ¹		T2711 / T2712 / T2713		
								v _c (m/min)	f _z (mm)	
									06	Insert size 09 / 11 / 14
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	E M	200	0,3	0,4
		C > 0.25 ... ≤ 0.55%	Annealed	190	640	P2	E M	200	0,3	0,4
		C > 0.25 ... ≤ 0.55%	Heat-treated	210	710	P3	E M	200	0,3	0,4
		C > 0.55%	Annealed	190	640	P4	E M	200	0,3	0,4
		C > 0.55%	Heat-treated	300	1010	P5	E M	200	0,3	0,4
	Low-alloy steel	Free-machining steel (short-chipping)	Annealed	220	750	P6	E M	200	0,3	0,4
		Heat-treated	Annealed	175	590	P7	E M	200	0,3	0,4
			285	960	P8	E M	200	0,3	0,4	
			380	1280	P9	E M	150	0,25	0,35	
	High-alloy steel and high-alloy tool steel	Heat-treated	430	1480	P10	E M	100	0,2	0,3	
		Annealed	200	680	P11	E M	200	0,3	0,4	
			300	1010	P12	E M	200	0,3	0,4	
	Hardened and tempered	380	1280	P13	E M	150	0,3	0,4		
		Ferritic/martensitic, annealed	200	680	P14	E M	200	0,25	0,35	
	Martensitic, heat-treated		330	1110	P15	E M	150	0,25	0,35	
M		Stainless steel	Austenitic, quench hardened	200	680	M1	E	200	0,2	0,3
	Austenitic, precipitation hardened (PH)		300	1010	M2	E	150	0,2	0,3	
	Austenitic/ferritic, duplex		230	780	M3	E	80	0,2	0,3	
K	Malleable cast iron	Ferritic	200	400	K1	E M	200	0,3	0,4	
		Pearlitic	260	700	K2	E M	200	0,3	0,4	
	Grey cast iron	Low tensile strength	180	200	K3	E M	250	0,3	0,4	
		High tensile strength/austenitic	245	350	K4	E M	200	0,3	0,4	
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	E M	200	0,3	0,4	
		Pearlitic	265	700	K6	E M	200	0,3	0,4	
GGV (CGI)		230	400	K7	E M	200	0,3	0,4		
N	Wrought aluminium alloys	Not hardenable	30	-	N1	E M	-	-	-	
		Hardenable, hardened	100	340	N2	E M	-	-	-	
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3	E M	-	-	-	
		≤ 12% Si, hardenable, hardened	90	310	N4	E M	-	-	-	
		> 12% Si, not hardenable	130	450	N5	E M	200	0,3	0,4	
	Magnesium-based alloys ³		70	250	N6	A	250	0,3	0,4	
		Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100	340	N7	E M	-	-	-
Brass, bronze, red brass	90		310	N8	E M	-	-	-		
Cu alloys, short-chipping	110		380	N9	E M	-	-	-		
High-tensile, Ampco	300		1010	N10	E M	-	-	-		
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	E	40	0,25	0,25
			Hardened	280	940	S2	E	25	0,15	0,15
		Ni- or Co-based	Annealed	250	840	S3	E	40	0,25	0,25
			Hardened	350	1180	S4	E	25	0,15	0,15
			Cast	320	1080	S5	E	30	0,2	0,2
	Titanium alloys	Pure titanium	200	680	S6	E	40	0,25	0,25	
		α and β alloys, hardened	375	1260	S7	E	40	0,25	0,25	
		β alloys	410	1400	S8	E	30	0,2	0,2	
	Tungsten alloys		300	1010	S9	E	40	0,25	0,25	
	Molybdenum alloys		300	1010	S10	E	40	0,25	0,25	
H	Hardened steel	Hardened and tempered	50 HRC	-	H1	M A	45	0,2	0,3	
		Hardened and tempered	55 HRC	-	H2	M	-	-	-	
		Hardened and tempered	60 HRC	-	H3	M	-	-	-	
	Hardened cast iron	Hardened and tempered	55 HRC	-	H4	M A	45	0,2	0,3	
O	Thermoplastics	Without abrasive fillers			O1	E M	200	0,3	0,4	
	Thermosets	Without abrasive fillers			O2	E M	150	0,3	0,4	
	Plastic, glass-fibre-reinforced	GFRP			O3	E M	50	0,3	0,4	
	Plastic, carbon-fibre-reinforced	CFRP			O4	E M	50	0,3	0,4	
	Plastic, aramid-fibre-reinforced	AFRP			O5	E M	50	0,3	0,4	
	Graphite (technical)		65		O6	E M	200	0,3	0,4	

¹ The classification of the machining groups can be found from page B 1174 onwards in the Walter General Catalogue 2017.

³ Water-miscible coolants must not be used when machining magnesium alloys.

Machining must be performed synchronously. The specified cutting data are target values under good machining conditions.

Remedy for vibration:

- Use indexable inserts with D61 geometry
- Reduce v_c by 25–50% and/or increase f_z by 25–50%
- Radial cutting pass.


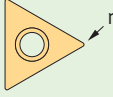
T2711/T2712: One radial cut is recommended.

T2713: Radial cutting pass may be required.

B4


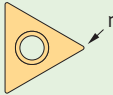
Radius correction values for thread milling Walter T2711/T2712/T2713

Metric thread in accordance with DIN 13

Thread nominal diameter D_N			Radius correction			
			Minimum dimension for H tolerances	Middle of the tolerance range for a 6H tolerance	Middle of the tolerance range for a 6G tolerance	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
≥ 24 and ≤ 90	1,5	0,1	-0,05	-0,10	-0,12	
	2	0,1	-0,10	-0,15	-0,17	
	3	0,2	-0,10	-0,16	-0,19	
	3,5	0,2	-0,15	-0,22	-0,24	
	4	0,2	-0,20	-0,27	-0,30	
	4,5	0,2	-0,25	-0,33	-0,36	
	5	0,4	-0,10	-0,18	-0,22	
	5,5	0,4	-0,15	-0,24	-0,27	
> 90	6	0,4	-0,20	-0,29	-0,33	
	2	0,1	-0,10	-0,16	-0,18	
	3	0,2	-0,10	-0,17	-0,20	
	4	0,2	-0,20	-0,28	-0,31	
		6	0,4	-0,20	-0,30	-0,34

Based on the pitch diameter tolerances in accordance with DIN ISO 965-1. Valid from M24.

UN/UNC/UNF/UNEF thread in accordance with ASME B1.1

Thread nominal diameter D_N			Radius correction		
			Minimum dimension	Middle of the tolerance range for a 2B tolerance	Middle of the tolerance range for a 3B tolerance
[inches]	[TPI]	[mm]	[mm]	[mm]	[mm]
≥ 1" and < 3"	18	0,1	-0,04	-0,08	-0,07
	16	0,1	-0,06	-0,10	-0,09
	14	0,1	-0,08	-0,12	-0,11
	12	0,1	-0,11	-0,16	-0,15
	8	0,2	-0,12	-0,17	-0,16
	7	0,2	-0,16	-0,22	-0,21
	6	0,2	-0,22	-0,29	-0,27
	5	0,4	-0,11	-0,18	-0,16
	4,5	0,4	-0,16	-0,24	-0,22
	4	0,4	-0,23	-0,32	-0,30
≥ 3"	16	0,1	-0,06	-0,10	-0,09
	12	0,1	-0,11	-0,16	-0,15
	8	0,2	-0,12	-0,19	-0,17
	6	0,2	-0,22	-0,30	-0,28
	4	0,4	-0,23	-0,32	-0,30

Based on the pitch diameter tolerances in accordance with ASME B1.1. Valid from UNC 1.

If the measured tool radius is reduced by the value stated in the "Minimum dimension" column, the thread is still in the lower tolerance range after machining and is usually too narrow. If the thread has to be milled to bring it to the middle of the tolerance range, the measured tool radius must be reduced by the value stated in the "Middle of the tolerance range" column. The thread is generally true to gauge after machining. Radius correction values can also be determined in Walter GPS.

Example of an M36 - 6H thread	P	4 mm
	r	0,2 mm
Measured tool radius	14,53 mm	
Radius correction in the middle of the 6H tolerance range	- 0,27 mm	
Tool radius to be used	= 14,26 mm	

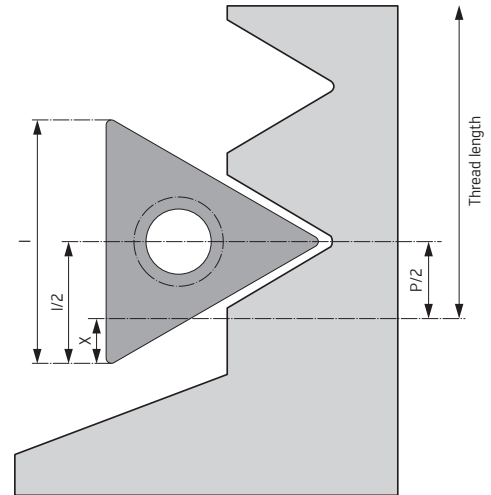
Tool application Walter T2711/T2712/T2713

UNUSABLE LENGTH

The thread length includes the last thread ridge plus half a pitch. Since $l/2$ is greater than $P/2$, this results in an "unusable length" (X), which must be taken into consideration during programming. This is calculated as half of the insert length ($l/2$) minus half of the thread pitch ($P/2$).

Example: M36 with P26300-0902.. thread milling cutter insert.

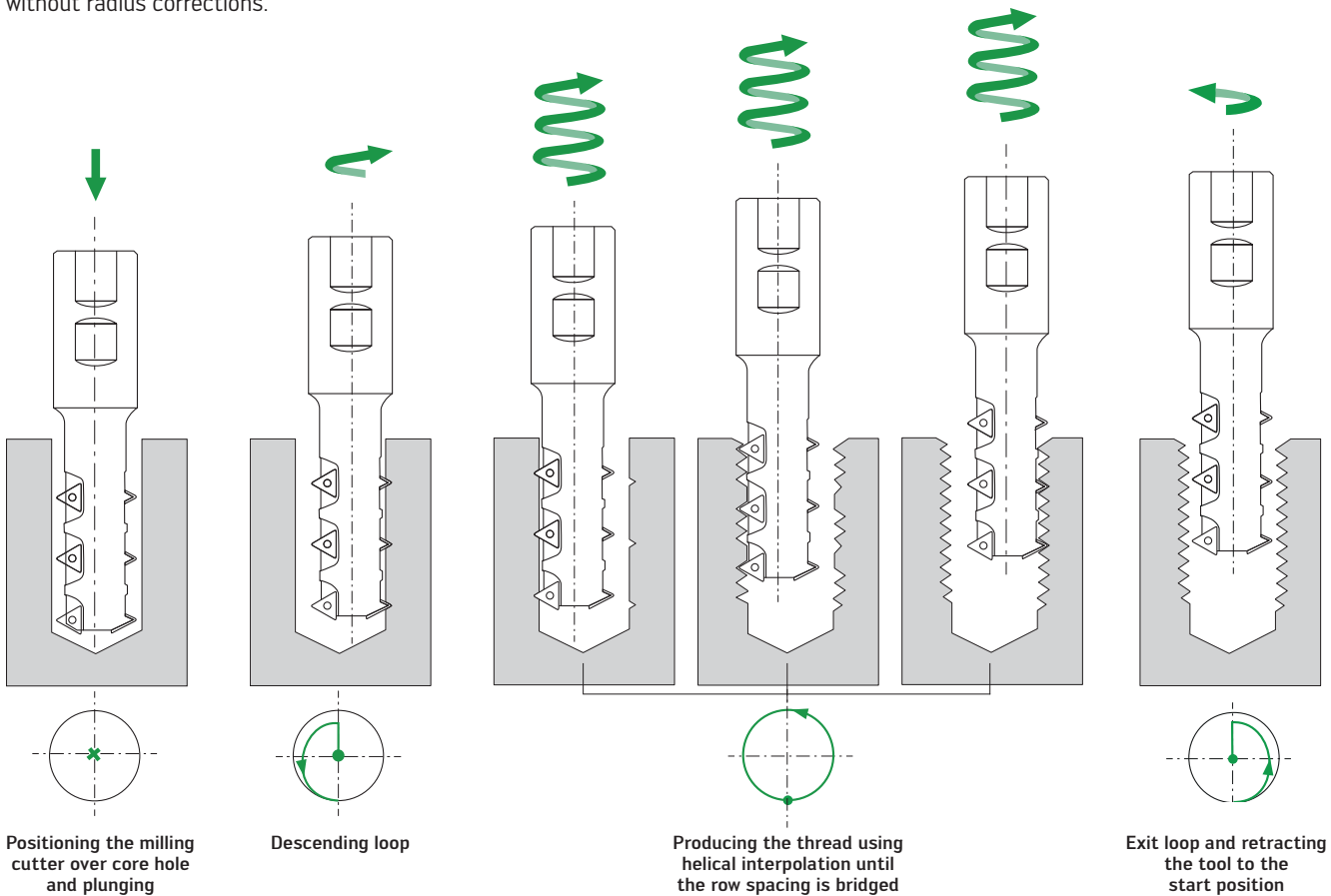
$$\text{Unusable length } X = l/2 - P/2 = \frac{9,34 \text{ mm}}{2} - \frac{4 \text{ mm}}{2} = 2,67 \text{ mm}$$



The unusable length of the T271.. families is less than the chamfer length of a tap.

THE STRATEGY

It is recommended that the thread be produced with a radial cut using synchronous milling. Non-cutting passes can be carried out without radius corrections.



B4

Solid carbide and ceramic milling tools – C1

Solid carbide milling tools	Designation key	252
	Shoulder milling cutters	254
	Shoulder/slot milling cutters	260
	Copy milling cutters	276
Solid carbide milling tools with ConeFit interface	Shoulder/slot milling cutters	279
Ceramic milling tools	Shoulder/slot milling cutters	282
Technical information	High-feed geometry	284
	Usage recommendations for copying and finishing	285
	Maximum feed angle	285

Milling tools with indexable inserts – C2

Indexable inserts for milling	Positive indexable inserts	286
	Negative indexable inserts	313
	Indexable inserts for tangential fitting	325
Indexable insert milling cutters	Face milling cutters	332
	Shoulder milling cutters	366
	Slot milling cutters	384
	Copy milling cutters	406
Technical information	Cutting data	410
	Feed determination	412
	Application information	414
Assembly parts and accessories	Screwdrivers	420



Designation key – Solid carbide milling tools

Example:

M	C	3	26	–	12.0	A	4	B	200	A	–	W	K	40	TF
1	2	3	4	5	6	7	8	9	10	11	Grade				

1	2	3	4		
Tool group	Generation	Tool type	Tool type		
M Milling		0 Face milling cutters 1 Shoulder milling cutters 2 Shoulder/slot/porcupine milling cutters Helix angle $\leq 39^\circ$ 3 Shoulder/slot/porcupine milling cutters Helix angle $\geq 40^\circ$ 4 Ball nose mill/ copy milling cutters 5 Profiling cutters 7 Slot drill mills/ Circular interpolation cutters	00 Universal Helix angle 0° , chamfer milling cutters 60° 01 Universal Helix angle 0° , chamfer milling cutters 90° 02 Universal Helix angle 0° , chamfer milling cutters 120° 03 Universal Helix angle 0° , quadrant profiling cutters 04 Universal Helix angle 0° , front/back deburrers 11 Universal Helix angle 30° , type N 12 Universal Helix angle 30° , type HSC 13 Universal Helix angle 30° , type HSC, long version 16 Universal Helix angle 30° , type 30 19 Universal Helix angle 40° , serrated profile with internal cooling 20 Universal Helix angle 40° , serrated profile 21 Universal Helix angle 45° , short version 22 Universal Helix angle 45° , type N 24 Universal Helix angle 45° , type 45 26 Universal Helix angle 50° , unequal groove depth, differential pitch 29 Universal Helix angle 60° , type N, multipurpose cutter 32 Universal Helix angle 35° 33 Universal Helix angle 35° + chip breaker 41 ISO P Helix angle 50° , HPC, differential pitch 51 ISO M Helix angle $35^\circ/38^\circ$, without internal coolant 65 ISO N Helix angle 30° , AI geometry, RAPAX G30 roughing profile, Axial internal coolant 66 ISO N Helix angle 30° , AI geometry, Axial internal coolant 80 ISO-H Helix angle 30° , HSC type H = Helix angle 30° , HSC, type H 81 ISO-H Helix angle 30° , mini HSC T, type H = Helix angle 30° , mini HSC T, type H 82 ISO-H Helix angle 30° , mini HSC R, type H = Helix angle 30° , mini HSC R, type H 83 ISO-H Helix angle 30° , multi-flute, type H = Helix angle 30° , multi-flute, type H 87 ISO-H Helix angle 50° , multi-flute, type H = Helix angle 50° , multi-flute, type H 88 ISO-H Helix angle 50° , HPC type H = Helix angle 50° , HPC, type H 89 ISO-H Helix angle 50° , high-feed, type H = Helix angle 50° , high-feed, type H		
5	6	7			
Delimiters	Cutting diameter	Shank type			
– Metric · Inch		A Parallel shank E ConeFit W Weldon shank			
8	9	10	11		
Number of teeth	Design standard	Corner radius	Variant		
	A DIN 6527 K B DIN 6527 L C ANSI stub D ANSI standard L P standard L M P standard Mini P P standard S P standard S X P standard XL		A I3 XS (very short neck) B I3 S (short neck) $2 \times D_c^*$ C I3 M (medium neck) $3 \times D_c^*$ D I3 L (long neck) $4 \times D_c^*$ E I3 XL (very long neck) $5 \times D_c^*$ F I3 XXL (extra long neck) $6 \times D_c^*$ G I3 XXXL (extra extra long neck) $8 \times D_c^*$ H I3 XXXXL (mega long neck) $10 \times D_c^*$ J Lc S (Lc short) $3 \times D_c^*$ K Lc M (Lc medium) $4 \times D_c^*$ L Lc L (Lc long) $5 \times D_c^*$ V Conical neck $\alpha \leq 3^\circ$ W Conical neck $\alpha \leq 6^\circ$ X Conical neck $\alpha \leq 12^\circ$		

* Standard values

Grade designation key for solid carbide and HSS cutting tool materials

Example:

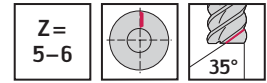
W	K	40	TF
Walter	1	2	3

1	2	3																		
Substrate	Application range	Coating																		
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Solid carbide</div> <div style="display: flex; flex-direction: column; align-items: center; gap: 5px;"> B J K </div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="text-align: center;">Wear resistance</div> <div style="text-align: center;">Toughness</div> </div>	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 40px;">TF</td><td>TiAlN</td></tr> <tr><td>UU</td><td>Uncoated</td></tr> <tr><td>CA</td><td>CrN</td></tr> <tr><td>RC</td><td>TiAlN + AlTi</td></tr> <tr><td>TZ</td><td>AlTiN + ZrN</td></tr> <tr><td>ED</td><td>AlCrN</td></tr> <tr><td>TG</td><td>TiAlSiN</td></tr> <tr><td>RD</td><td>AlTiN + ZrN</td></tr> <tr><td>RA</td><td>TiAlN + TiAl</td></tr> </table>	TF	TiAlN	UU	Uncoated	CA	CrN	RC	TiAlN + AlTi	TZ	AlTiN + ZrN	ED	AlCrN	TG	TiAlSiN	RD	AlTiN + ZrN	RA	TiAlN + TiAl
TF	TiAlN																			
UU	Uncoated																			
CA	CrN																			
RC	TiAlN + AlTi																			
TZ	AlTiN + ZrN																			
ED	AlCrN																			
TG	TiAlSiN																			
RD	AlTiN + ZrN																			
RA	TiAlN + TiAl																			
HSS	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Wear resistance</div> <div style="display: flex; flex-direction: column; align-items: center; gap: 5px;"> 5101520253035404550556065707580859095 </div> </div>																			

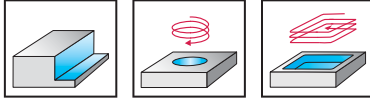
C1

Solid carbide shoulder milling cutters

MD133 Supreme /
 MD133 Supreme

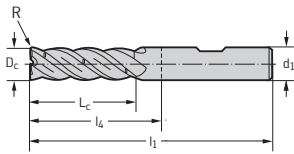


- Chip breaker



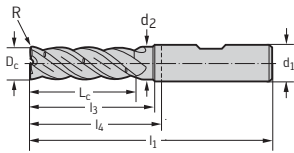
	P	M	K	N	S	H	O
WJ30RA		●●		●	●		
WJ30RD	●●		●				

P STANDARD L		D _c h10 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation									
	MD133-06.0W5L030J-	6	0,3	19	65	29	6	5	☉	☉
	MD133-08.0W5L040J-	8	0,4	25	68	32	8	5	☉	☉
	MD133-10.0W5L050J-	10	0,5	32	80	40	10	5	☉	☉
	MD133-12.0W5L060J-	12	0,6	38	93	48	12	5	☉	☉
	MD133-16.0W6L080J-	16	0,8	50	115	62	16	6	☉	☉
	MD133-20.0W6L100J-	20	1	63	125	75	20	6	☉	☉



Shoulder milling $a_e \leq 0.10 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.03 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133-06.0W5L030J-WJ30RD

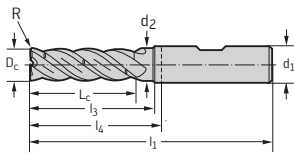
P STANDARD L		D _c h10 mm	R mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation											
	MD133-06.0W5L030D-	6	0,3	19	27	5,5	65	29	6	5	☉	☉
	MD133-08.0W5L040D-	8	0,4	25	30	7,5	68	32	8	5	☉	☉
	MD133-10.0W5L050D-	10	0,5	32	38	9,5	80	40	10	5	☉	☉
	MD133-12.0W5L060D-	12	0,6	38	46	11,4	93	48	12	5	☉	☉
	MD133-16.0W6L080D-	16	0,8	50	60	15,2	115	62	16	6	☉	☉
	MD133-20.0W6L100D-	20	1	63	73	19	125	75	20	6	☉	☉



Shoulder milling $a_e \leq 0.10 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.03 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133-06.0W5L030D-WJ30RD

C1

P STANDARD L		D _c h10 Inch/no.	R Inch	L _c Inch	l ₃ Inch	d ₂ Inch	l ₁ Inch	l ₄ Inch	d ₁ h6 Inch	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation											
	MD133.6.35W5L038D-	1/4"	0,015	0,875	1,000	0,237	2,500	1,437	0,250	5	☉	☉
	MD133.9.53W5L038D-	3/8"	0,015	1,250	1,500	0,356	3,250	1,687	0,375	5	☉	☉
	MD133.12.7W5L076D-	1/2"	0,030	1,750	2,125	0,475	4,000	2,217	0,500	5	☉	☉
	MD133.15.9W6L076D-	5/8"	0,030	2,000	2,500	0,594	4,500	2,594	0,625	6	☉	☉
	MD133.19.1W6L076D-	3/4"	0,030	2,500	3,000	0,713	5,500	3,469	0,750	6	☉	☉



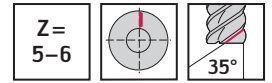
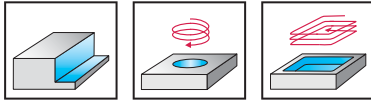
Shoulder milling $a_e \leq 0.10 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.03 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133.6.35W5L038D-WJ30RD

Solid carbide shoulder milling cutters

MD133 Supreme



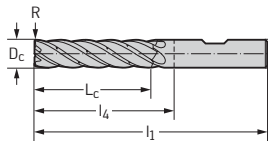
- Chip breaker



	P	M	K	N	S	H	O
WJ30RA		••		•	•		
WJ30RD	••		•				

P STANDARD L		D_c h10 mm	R mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation									
	MD133-06.0W5L030K-	6	0,3	25	65	29	6	5	⊕	⊕
	MD133-08.0W5L040K-	8	0,4	34	80	44	8	5	⊕	⊕
	MD133-10.0W5L050K-	10	0,5	42	90	50	10	5	⊕	⊕
	MD133-12.0W5L060K-	12	0,6	50	100	55	12	5	⊕	⊕
	MD133-16.0W6L080K-	16	0,8	66	125	77	16	6	⊕	⊕
	MD133-20.0W6L100K-	20	1	83	145	95	20	6	⊕	⊕

Shoulder milling $a_e \leq 0.05 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.025 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133-06.0W5L030K-WJ30RD



WALTER SELECT

Best tool for

Good

Average

Poor

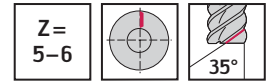
machining conditions

•• Primary application

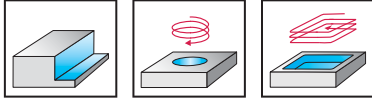
• Other application

Solid carbide shoulder milling cutters

 MD133 Supreme /

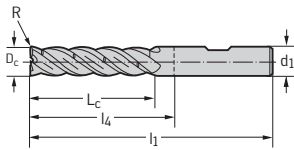
 MD133 Supreme


- Chip breaker



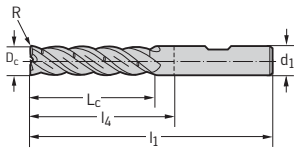
	P	M	K	N	S	H	O
WJ30RA		●●		●	●		
WJ30RD	●●		●				

P STANDARD XL		D _c h10 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation									
	MD133-06.0W5X030L-	6	0,3	31	80	40	6	5	☉	☉
	MD133-08.0W5X040L-	8	0,4	41	87	51	8	5	☉	☉
	MD133-10.0W5X050L-	10	0,5	52	100	60	10	5	☉	☉
	MD133-12.0W5X060L-	12	0,6	62	116	71	12	5	☉	☉
	MD133-16.0W6X080L-	16	0,8	82	141	93	16	6	☉	☉
MD133-20.0W6X100L-	20	1	103	165	115	20	6	☉	☉	



Shoulder milling $a_e \leq 0.03 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.015 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133-06.0W5X030L-WJ30RD

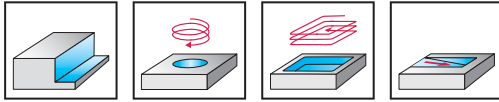
P STANDARD XL		D _c h10 Inch/no.	R Inch	L _c Inch	l ₁ Inch	l ₄ Inch	d ₁ h6 Inch	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation									
	MD133.6.35W5X038L-	1/4"	0,015	1,375	3,000	1,937	0,250	5	☉	☉
	MD133.9.53W5X038L-	3/8"	0,015	2,000	4,000	2,437	0,375	5	☉	☉
	MD133.12.7W5X076L-	1/2"	0,030	2,750	5,000	3,217	0,500	5	☉	☉
	MD133.15.9W6X076L-	5/8"	0,030	3,250	5,500	3,594	0,625	6	☉	☉
	MD133.19.1W6X076L-	3/4"	0,030	3,875	6,500	4,469	0,750	6	☉	☉



Shoulder milling $a_e \leq 0.03 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.015 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133.6.35W5X038L-WJ30RD

Solid carbide shoulder milling cutters

MC187 Advance /
 MC187 Advance



Z= 4-8

50°

63HRC
48HRC

P	M	K	N	S	H	O
WB10TG						●●

DIN 6527 L		D _c h10 mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TG
Shank DIN 6535 HA 	Designation							
	MC187-03.0A4B-	3	8	57	21	6	4	☉
	MC187-04.0A4B-	4	11	57	21	6	4	☉
	MC187-05.0A4B-	5	13	57	21	6	4	☉
	MC187-06.0A6B-	6	13	57	21	6	6	☉
	MC187-08.0A6B-	8	19	63	27	8	6	☉
	MC187-10.0A6B-	10	22	72	32	10	6	☉
	MC187-12.0A6B-	12	26	83	38	12	6	☉
	MC187-16.0A6B-	16	32	92	44	16	6	☉
	MC187-20.0A8B-	20	38	104	54	20	8	☉
	MC187-25.0A8B-	25	45	121	65	25	8	☉

Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC187-03.0A4B-WB10TG

P STANDARD L		D _c h10 mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TG
Shank DIN 6535 HA 	Designation							
	MC187-06.0A6L-	6	26	75	34	6	6	☉
	MC187-08.0A6L-	8	36	80	44	8	6	☉
	MC187-10.0A6L-	10	46	100	60	10	6	☉
	MC187-12.0A6L-	12	55	110	65	12	6	☉
	MC187-16.0A6L-	16	66	130	82	16	6	☉
	MC187-20.0A8L-	20	80	145	95	20	8	☉
MC187-25.0A8L-	25	90	153	97	25	8	☉	

Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC187-06.0A6L-WB10TG

DIN 6527 L		D _c h9 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TG
Shank DIN 6535 HA 	Designation								
	MC187-03.0A4B050-	3	0,5	8	57	21	6	4	☉
	MC187-04.0A4B050-	4	0,5	11	57	21	6	4	☉
	MC187-04.0A4B100-	4	1	11	57	21	6	4	☉
	MC187-05.0A6B050-	5	0,5	13	57	21	6	6	☉
	MC187-05.0A6B100-	5	1	13	57	21	6	6	☉
	MC187-06.0A6B050-	6	0,5	13	57	21	6	6	☉
	MC187-06.0A6B100-	6	1	13	57	21	6	6	☉
	MC187-08.0A6B050-	8	0,5	19	63	27	8	6	☉
	MC187-08.0A6B100-	8	1	19	63	27	8	6	☉
	MC187-08.0A6B200-	8	2	19	63	27	8	6	☉
	MC187-10.0A6B050-	10	0,5	22	72	32	10	6	☉
	MC187-10.0A6B100-	10	1	22	72	32	10	6	☉
	MC187-10.0A6B200-	10	2	22	72	32	10	6	☉
	MC187-12.0A6B050-	12	0,5	26	83	38	12	6	☉

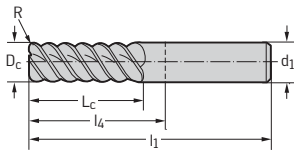
Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC187-03.0A4B050-WB10TG

Continued

C1

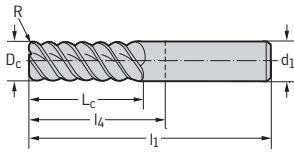
Continued

DIN 6527 L		D_c h9 mm	R mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG
Shank DIN 6535 HA	MC187-12.0A6B100-	12	1	26	83	38	12	6	☺
	MC187-12.0A6B200-	12	2	26	83	38	12	6	☺☺
	MC187-12.0A6B300-	12	3	26	83	38	12	6	☺☺☺



Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC187-03.0A4B050-WB10TG

STANDARD		D_c h9 Inch/no.	R Inch	L_c Inch	l_1 Inch	l_4 Inch	d_1 h5 Inch	Z	WB10TG
Shank DIN 6535 HA	MC187.3.18A4D038-	1/8"	0,015	0,500	2,500	1,083	0,250	4	☺
	MC187.4.76A4D038-	3/16"	0,015	0,625	2,500	1,083	0,250	4	☺☺
	MC187.6.35A6D038-	1/4"	0,015	0,750	3,000	1,583	0,250	6	☺☺☺
	MC187.7.94A6D051-	5/16"	0,020	0,813	3,000	1,437	0,375	6	☺☺☺
	MC187.9.53A6D076-	3/8"	0,030	0,875	3,000	1,437	0,375	6	☺☺☺
	MC187.12.7A6D076-	1/2"	0,030	1,000	4,500	2,717	0,500	6	☺☺☺
	MC187.15.9A6D152-	5/8"	0,060	1,250	5,000	3,094	0,625	6	☺☺☺
	MC187.19.1A8D152-	3/4"	0,060	1,500	5,000	2,969	0,750	8	☺☺☺

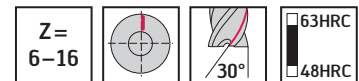
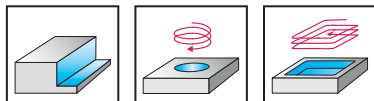


Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC187.3.18A4D038-WB10TG

Solid carbide shoulder milling cutters

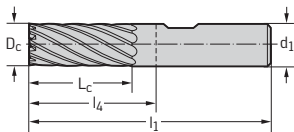
 MC183 Advance


C1



	P	M	K	N	S	H	O
WB10TG						●●	

DIN 6527 L		D_c h10 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG
Shank DIN 6535 HB	MC183-06.0W6B-	6	13	57	21	6	6	☺
	MC183-08.0W8B-	8	19	63	27	8	8	☺☺
	MC183-10.0W10B-	10	22	72	32	10	10	☺☺☺
	MC183-12.0W12B-	12	26	83	38	12	12	☺☺☺
	MC183-16.0W16B-	16	32	92	44	16	16	☺☺☺



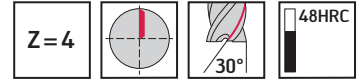
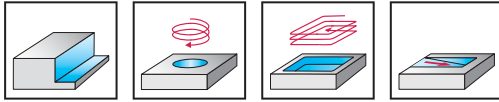
Shoulder milling $a_e \leq 0.05 \times D_c$
 Ordering example for the WB10TG grade: MC183-06.0W6B-WB10TG

Solid carbide shoulder milling cutters

MC111 Advance inch



- Type N 30



	P	M	K	N	S	H	O
WJ30TF	●	●	●	●	●	●	●

STANDARD		D_c h10 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WJ30TF
	Shank DIN 6535 HA	MC111.2.38A4D-	3/32"	0,375	2,500	1,083	4	●
		MC111.3.18A4D-	1/8"	0,500	2,500	1,083	4	●
		MC111.4.76A4D-	3/16"	0,625	2,500	1,083	4	●
		MC111.6.35A4D-	1/4"	0,750	2,500	1,083	4	●
		MC111.7.94A4D-	5/16"	0,813	3,000	1,437	4	●
		MC111.9.53A4D-	3/8"	0,875	3,000	1,437	4	●
		MC111.12.7A4D-	1/2"	1,000	3,500	1,717	4	●
		MC111.15.9A4D-	5/8"	1,250	3,500	1,594	4	●
		MC111.19.1A4D-	3/4"	1,500	4,000	1,969	4	●

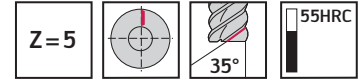
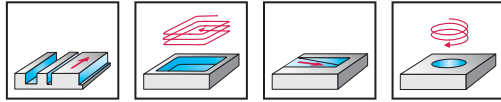
Slot milling $a_p \leq 0.3 \times D_c$

Shoulder milling $a_e \leq 0.3 \times D_c$

Ordering example for the WJ30TF grade: MC111.2.38A4D-WJ30TF

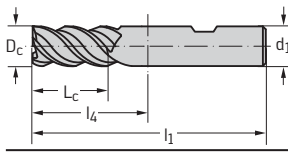
Solid carbide shoulder/slot milling cutters

 AH4135217 inch / AH4137217 inch

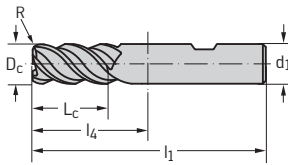
 Proto-max™_{ST}


TAZ	P	M	K	N	S	H	O
	●	●	●	●	●	●	●

STANDARD	Designation TAZ	D _c h9 Inch/no.	L _c Inch	l ₁ Inch	l ₄ Inch	d ₁ h6 Inch	Z
Shank DIN 6535 HB	AH4135217-3/8	3/8"	0,875	3,000	1,437	0,375	5
	AH4135217-1/2	1/2"	1,063	3,500	1,717	0,500	5
	AH4135217-5/8	5/8"	1,250	3,500	1,594	0,625	5
	AH4135217-3/4	3/4"	1,500	4,000	1,969	0,750	5

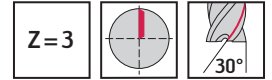
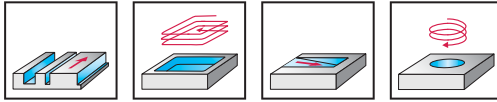

 Slot milling $a_p \leq 1.0 \times D_c$
 Shoulder milling $a_e \leq 0.6 \times D_c$

STANDARD	Designation TAZ	D _c h9 Inch/no.	R Inch	L _c Inch	l ₁ Inch	l ₄ Inch	d ₁ h6 Inch	Z
Shank DIN 6535 HB	AH4137217-3/8-0.030	3/8"	0,030	0,875	3,000	1,437	0,375	5
	AH4137217-1/2-0.030	1/2"	0,030	1,063	3,500	1,717	0,500	5
	AH4137217-1/2-0.060	1/2"	0,060	1,063	3,500	1,717	0,500	5
	AH4137217-3/4-0.030	3/4"	0,030	1,500	4,000	1,969	0,750	5
	AH4137217-3/4-0.060	3/4"	0,060	1,500	4,000	1,969	0,750	5


 Slot milling $a_p \leq 1.0 \times D_c$
 Shoulder milling $a_e \leq 0.6 \times D_c$

Solid carbide shoulder/slot milling cutters

MB266 Supreme inch



	P	M	K	N	S	H	O
WJ30UU				●●			

P STANDARD XL		D_c	R	L_c	l_3	d_2	l_1	l_4	d_1	Z	WJ30UU
		h9 Inch/no.	Inch	Inch	Inch	Inch	Inch	Inch	h5 Inch		
Shank DIN 6535 HA 	MB266.6.35A3X038B-	1/4"	0,015	0,375	1,500	0,236	3,000	1,583	0,250	3	☉
	MB266.6.35A3X076B-	1/4"	0,030	0,375	1,500	0,236	3,000	1,583	0,250	3	☉
	MB266.9.53A3X038B-	3/8"	0,015	0,500	1,550	0,355	3,250	1,687	0,375	3	☉
	MB266.9.53A3X076B-	3/8"	0,030	0,500	1,550	0,355	3,250	1,687	0,375	3	☉
	MB266.12.7A3X038B-	1/2"	0,015	0,625	2,125	0,470	4,000	2,217	0,500	3	☉
	MB266.12.7A3X038C-	1/2"	0,015	1,250	3,125	0,470	5,000	3,217	0,500	3	☉
	MB266.12.7A3X076B-	1/2"	0,030	0,625	2,125	0,470	4,000	2,217	0,500	3	☉
	MB266.12.7A3X076C-	1/2"	0,030	1,250	3,125	0,470	5,000	3,217	0,500	3	☉
	MB266.12.7A3X152C-	1/2"	0,060	1,250	3,125	0,470	5,000	3,217	0,500	3	☉
	MB266.12.7A3X305C-	1/2"	0,120	1,250	3,125	0,470	5,000	3,217	0,500	3	☉
	MB266.15.9A3X038C-	5/8"	0,015	1,625	3,125	0,600	5,000	3,148	0,625	3	☉
	MB266.15.9A3X076C-	5/8"	0,030	1,625	3,125	0,600	5,000	3,148	0,625	3	☉
	MB266.15.9A3X152C-	5/8"	0,060	1,625	3,125	0,600	5,000	3,148	0,625	3	☉
	MB266.15.9A3X305C-	5/8"	0,120	1,625	3,125	0,600	5,000	3,148	0,625	3	☉
	MB266.19.1A3X038C-	3/4"	0,015	1,625	3,125	0,715	5,000	3,156	0,750	3	☉
	MB266.19.1A3X076B-	3/4"	0,030	1,000	2,125	0,715	4,000	2,156	0,750	3	☉
	MB266.19.1A3X076C-	3/4"	0,030	1,625	3,125	0,715	5,000	3,156	0,750	3	☉
	MB266.19.1A3X152B-	3/4"	0,060	1,000	2,125	0,715	4,000	2,156	0,750	3	☉
	MB266.19.1A3X305C-	3/4"	0,120	1,625	3,125	0,715	5,000	3,156	0,750	3	☉
	MB266.25.4A3X038B-	1"	0,015	1,250	2,125	0,955	5,000	2,717	1,000	3	☉
MB266.25.4A3X076B-	1"	0,030	1,250	2,125	0,955	5,000	2,717	1,000	3	☉	
MB266.25.4A3X152B-	1"	0,060	1,250	2,125	0,955	5,000	2,717	1,000	3	☉	
MB266.25.4A3X305B-	1"	0,120	1,250	2,125	0,955	5,000	2,717	1,000	3	☉	

Slot milling $a_p \leq 0.9 \times D_c$
 Shoulder milling $a_e \leq 0.6 \times D_c$
 Ordering example for the WJ30UU grade: MB266.6.35A3X038B-WJ30UU

WALTER SELECT

Best tool for

Good

Average

Poor

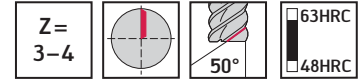
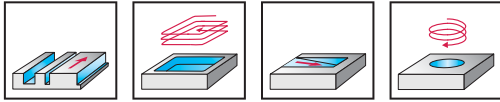
machining conditions

●● Primary application

● Other application

Solid carbide shoulder/slot milling cutters

 MC388 Advance /

 MC388 Advance


	P	M	K	N	S	H	O
WB10TG	●	●	●	●	●	●	●

DIN 6527 L		D_c h10 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG
Shank DIN 6535 HA	MC388-06.0A4B-	6	13	57	21	6	4	☺
	MC388-08.0A4B-	8	19	63	27	8	4	☺
	MC388-10.0A4B-	10	22	72	32	10	4	☺
	MC388-12.0A4B-	12	26	83	38	12	4	☺
Shank DIN 6535 HB	MC388-06.0W4B-	6	13	57	21	6	4	☺
	MC388-08.0W4B-	8	19	63	27	8	4	☺
	MC388-10.0W4B-	10	22	72	32	10	4	☺
	MC388-12.0AWB-	12	26	83	38	12	4	☺

 Slot milling $a_p \leq 0.9 \times D_c$

 Shoulder milling $a_e \leq 0.3 \times D_a$

Ordering example for the WB10TG grade: MC388-06.0A4B-WB10TG

DIN 6527 L		D_c h10 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG	
Shank DIN 6535 HA	MC388-02.0A3B-	2	7	57	21	6	3	☺	
	MC388-03.0A3B-	3	8	57	21	6	3	☺	
	MC388-04.0A3B-	4	11	57	21	6	3	☺	
	MC388-05.0A3B-	5	13	57	21	6	3	☺	
	MC388-06.0A4L-	6	13	65	29	6	4	☺	
	MC388-08.0A4L-	8	19	80	44	8	4	☺	
	MC388-10.0A4L-	10	22	100	60	10	4	☺	
	MC388-12.0A4L-	12	26	100	55	12	4	☺	

 Slot milling $a_p \leq 0.9 \times D_c$

 Shoulder milling $a_e \leq 0.3 \times D_a$

Ordering example for the WB10TG grade: MC388-02.0A3B-WB10TG

Continued

Continued

P STANDARD L		D_c h10 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WB10TG	
	Shank DIN 6535 HA	MC388.3.18A3L-	1/8"	0,500	2,500	1,083	0,250	3	☺
		MC388.4.76A3L-	3/16"	0,625	2,500	1,083	0,250	3	☺
		MC388.6.35A4L-	1/4"	0,750	2,500	1,083	0,250	4	☺
		MC388.9.53A4L-	3/8"	0,875	3,000	1,437	0,375	4	☺
		MC388.12.7A4L-	1/2"	1,000	3,500	1,717	0,500	4	☺

Slot milling $a_p \leq 0.9 \times D_c$
 Shoulder milling $a_e \leq 0.3 \times D_a$
 Ordering example for the WB10TG grade: MC388.3.18A3L-WB10TG

DIN 6527 L		D_c h9 mm	R mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG	
	Shank DIN 6535 HA	MC388-02.0A3B050-	2	0,5	7	57	21	6	3	☺
		MC388-03.0A3B050-	3	0,5	8	57	21	6	3	☺
		MC388-04.0A3B050-	4	0,5	11	57	21	6	3	☺
		MC388-04.0A3B100-	4	1	11	57	21	6	3	☺
		MC388-05.0A3B050-	5	0,5	13	57	21	6	3	☺
		MC388-05.0A3B100-	5	1	13	57	21	6	3	☺
		MC388-06.0A4L050-	6	0,5	13	65	29	6	4	☺
		MC388-06.0A4L100-	6	1	13	65	29	6	4	☺
		MC388-08.0A4L050-	8	0,5	19	80	44	8	4	☺
		MC388-08.0A4L100-	8	1	19	80	44	8	4	☺
		MC388-08.0A4L200-	8	2	19	80	44	8	4	☺
		MC388-10.0A4L050-	10	0,5	22	100	60	10	4	☺
		MC388-10.0A4L100-	10	1	22	100	60	10	4	☺
		MC388-10.0A4L200-	10	2	22	100	60	10	4	☺
		MC388-12.0A4L050-	12	0,5	26	100	55	12	4	☺
		MC388-12.0A4L100-	12	1	26	100	55	12	4	☺
		MC388-12.0A4L200-	12	2	26	100	55	12	4	☺
		MC388-12.0A4L300-	12	3	26	100	55	12	4	☺

Slot milling $a_p \leq 0.9 \times D_c$
 Shoulder milling $a_e \leq 0.3 \times D_a$
 Ordering example for the WB10TG grade: MC388-02.0A3B050-WB10TG

P STANDARD L		D_c h10 Inch/no.	R Inch	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WB10TG	
	Shank DIN 6535 HA	MC388.3.18A3L038-	1/8"	0,015	0,500	2,500	1,083	0,250	3	☺
		MC388.4.76A3L038-	3/16"	0,015	0,625	2,500	1,083	0,250	3	☺
		MC388.6.35A4L038-	1/4"	0,015	0,750	2,500	1,083	0,250	4	☺
		MC388.9.53A4L076-	3/8"	0,030	0,875	3,000	1,437	0,375	4	☺
		MC388.12.7A4L076-	1/2"	0,030	1,000	3,500	1,717	0,500	4	☺

Slot milling $a_p \leq 0.9 \times D_c$
 Shoulder milling $a_e \leq 0.3 \times D_a$
 Ordering example for the WB10TG grade: MC388.3.18A3L038-WB10TG

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹☹
Poor

machining conditions

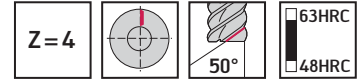
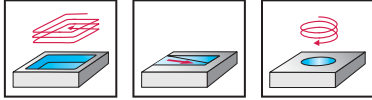
•• Primary application

• Other application

C1

Solid carbide shoulder/slot milling cutters

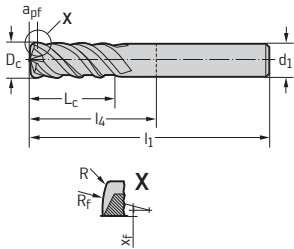
MC089 Advance



	P	M	K	N	S	H	O
WB10TG						●●	

DIN 6527 L

	Designation	D_c h9 mm	a_{pf} mm	x_f mm	R_f mm	R_{ers} mm	R mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG
Shank DIN 6535 HA	MC089-04.0A4B050-	4	0,12	0,6	4	0,618	0,5	11	57	21	6	4	☺
	MC089-05.0A4B050-	5	0,15	0,7	6	0,656	0,5	13	57	21	6	4	☺
	MC089-06.0A4B050-	6	0,2	0,7	9	0,693	0,5	15	57	21	6	4	☺
	MC089-08.0A4B100-	8	0,25	0,78	12	1,226	1	20	63	27	8	4	☺
	MC089-10.0A4B150-	10	0,3	0,8	15	1,773	1,5	26	72	32	10	4	☺
	MC089-12.0A4B150-	12	0,4	1	18	1,875	1,5	30	83	38	12	4	☺
	MC089-16.0A4B200-	16	0,5	1,5	24	2,465	2	36	92	44	16	4	☺

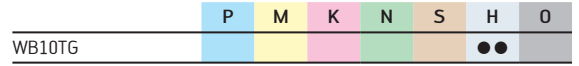
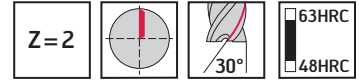
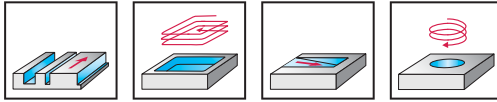


Shoulder milling $a_e \leq 0.5 \times D_c$

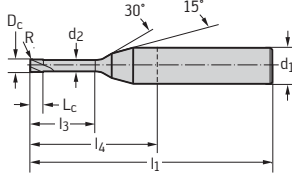
Ordering example for the WB10TG grade: MC089-04.0A4B050-WB10TG

Solid carbide shoulder/slot milling cutters

MC281 Advance



P STANDARD MINI		D_c h7 mm	R mm	L_c mm	l_3 mm	d_2 mm	l_1 mm	l_4 mm	d_1 h5 mm	Z	WB10TG
Shank DIN 6535 HA											
	MC281-01.0A2M020B-	1	0,2	1	2	0,97	50	22	4	2	☺
	MC281-01.0A2M020F-	1	0,2	1	6	0,97	50	22	4	2	☺
	MC281-01.0A2M020H-	1	0,2	1	10	0,97	50	22	4	2	☺
	MC281-1.25A2M020D-	1,25	0,2	1,25	5	1,22	50	22	4	2	☺
	MC281-01.5A2M020C-	1,5	0,2	1,5	4	1,47	50	22	4	2	☺
	MC281-01.5A2M020E-	1,5	0,2	1,5	8	1,47	50	22	4	2	☺
	MC281-01.5A2M020G-	1,5	0,2	1,5	12	1,47	50	22	4	2	☺
	MC281-02.0A2M020B-	2	0,2	2	4	1,97	50	22	4	2	☺
	MC281-02.0A2M020C-	2	0,2	2	6	1,97	50	22	4	2	☺
	MC281-02.0A2M020F-	2	0,2	2	12	1,97	50	22	4	2	☺
	MC281-02.0A2M020G-	2	0,2	2	16	1,97	50	22	4	2	☺
	MC281-03.0A2M020C-	3	0,2	3	8	2,97	50	22	4	2	☺
	MC281-03.0A2M020E-	3	0,2	3	16	2,97	50	22	4	2	☺
	MC281-03.0A2M020F-	3	0,2	3	20	2,97	60	32	4	2	☺
	MC281-04.0A2M050C-	4	0,5	4	12	3,97	65	29	6	2	☺
	MC281-04.0A2M050E-	4	0,5	4	20	3,97	65	29	6	2	☺



Slot milling $a_p \leq 0.1 \times D_c$
 Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC281-01.0A2M020B-WB10TG

WALTER SELECT

Best tool for machining conditions

☺ Good 😐 Average ☹ Poor

•• Primary application
• Other application

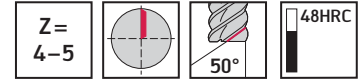
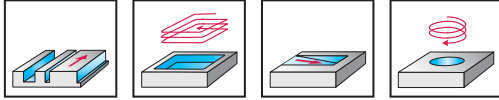
C1

Solid carbide shoulder/slot milling cutters

MC326 Supreme inch



– Type N 50



	P	M	K	N	S	H	O
WK40TF	●	●	●	●	●		

P STANDARD L

	Designation	D _c h9 Inch/no.	R Inch	L _c Inch	l ₃ Inch	d ₂ Inch	l ₁ Inch	l ₄ Inch	d ₁ h6 Inch	Z	WK40TF
Shank DIN 6535 HA 	MC326.6.35A4L076C-	1/4"	0,030	0,750	1,375	0,237	3,000	1,583	0,250	4	●
	MC326.7.94A4L076C-	5/16"	0,030	0,813	1,500	0,297	3,500	1,937	0,375	4	●
	MC326.9.53A4L076C-	3/8"	0,030	0,875	1,500	0,356	3,500	1,937	0,375	4	●
	MC326.9.53A4L152C-	3/8"	0,060	0,875	1,500	0,356	3,500	1,937	0,375	4	●
	MC326.11.1A4L076C-	7/16"	0,030	1,000	2,875	0,416	4,750	2,967	0,500	4	●
	MC326.12.7A4L076C-	1/2"	0,030	1,000	2,875	0,475	4,750	2,967	0,500	4	●
	MC326.12.7A4L152C-	1/2"	0,060	1,000	2,875	0,475	4,750	2,967	0,500	4	●
	MC326.15.9A4L076C-	5/8"	0,030	1,250	3,000	0,594	5,000	3,217	0,625	4	●
	MC326.15.9A4L152C-	5/8"	0,060	1,250	3,000	0,594	5,000	3,217	0,625	4	●
	MC326.19.1A4L152C-	3/4"	0,060	1,500	3,000	0,713	5,250	3,219	0,750	4	●
	MC326.25.4A5L152C-	1"	0,060	1,625	3,250	0,960	5,500	3,217	1,000	5	●
	MC326.25.4A5L318C-	1"	0,120	1,625	3,250	0,960	5,500	3,217	1,000	5	●

 Slot milling $a_p \leq 0.9 \times D_c$

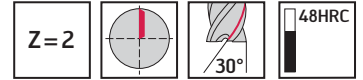
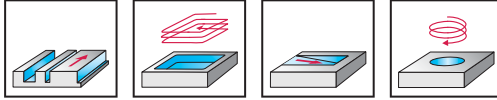
 Shoulder milling $a_e \leq 0.3 \times D_c$

Ordering example for the WK40TF grade: MC326.6.35A4L076C-WK40TF

Solid carbide shoulder/slot milling cutters MC216 Advance inch



- Type 30



	P	M	K	N	S	H	O
WJ30TF	●	●	●	●	●		

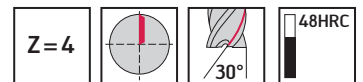
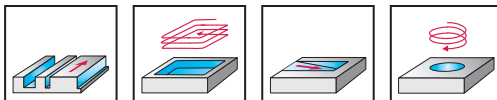
STANDARD		D_c h10 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WJ30TF
Shank DIN 6535 HA								
	MC216.2.38A2D-	3/32"	0,375	2,500	1,083	0,250	2	●
	MC216.3.18A2D-	1/8"	0,500	2,500	1,083	0,250	2	●
	MC216.4.76A2D-	3/16"	0,625	2,500	1,083	0,250	2	●
	MC216.6.35A2D-	1/4"	0,750	2,500	1,083	0,250	2	●
	MC216.7.94A2D-	5/16"	0,813	3,000	1,437	0,375	2	●
	MC216.9.53A2D-	3/8"	0,875	3,000	1,437	0,375	2	●
	MC216.12.7A2D-	1/2"	1,000	3,500	1,717	0,500	2	●
	MC216.15.9A2D-	5/8"	1,250	3,500	1,594	0,625	2	●
	MC216.19.1A2D-	3/4"	1,500	4,000	1,969	0,750	2	●

Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.3 \times D_c$
Ordering example for the WJ30TF grade: MC216.2.38A2D-WJ30TF

Solid carbide shoulder/slot milling cutters MC213 Advance inch



- Type HSC 30



	P	M	K	N	S	H	O
WJ30TF	●	●	●	●	●		

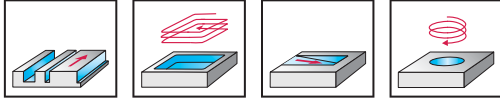
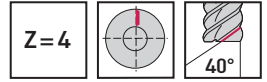
P STANDARD L		D_c h10 Inch/no.	R Inch	L_c Inch	l_3 Inch	d_2 Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WJ30TF
Shank DIN 6535 HA											
	MC213.6.35A4L038C-	1/4"	0,015	0,750	1,375	0,237	3,000	1,583	0,250	4	●
	MC213.6.35A4L076C-	1/4"	0,030	0,750	1,375	0,237	3,000	1,583	0,250	4	●
	MC213.9.53A4L038C-	3/8"	0,015	0,875	1,500	0,356	3,500	1,937	0,375	4	●
	MC213.9.53A4L076C-	3/8"	0,030	0,875	1,500	0,356	3,500	1,937	0,375	4	●
	MC213.12.7A4L076C-	1/2"	0,030	1,000	2,875	0,475	4,750	2,967	0,500	4	●
	MC213.12.7A4L152C-	1/2"	0,060	1,000	2,875	0,475	4,750	2,967	0,500	4	●
	MC213.12.7A4L305C-	1/2"	0,120	1,000	2,875	0,475	4,750	2,967	0,500	4	●
	MC213.15.9A4L076C-	5/8"	0,030	1,250	3,000	0,594	5,000	3,094	0,625	4	●
	MC213.15.9A4L152C-	5/8"	0,060	1,250	3,000	0,594	5,000	3,094	0,625	4	●
	MC213.19.1A4L152C-	3/4"	0,060	1,500	3,000	0,713	5,250	3,219	0,750	4	●
MC213.19.1A4L305C-	3/4"	0,120	1,500	3,000	0,713	5,250	3,219	0,750	4	●	

Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.5 \times D_c$
Ordering example for the WJ30TF grade: MC213.6.35A4L038C-WJ30TF

C1

Solid carbide shoulder/slot milling cutters

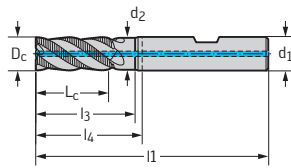
MC319 Advance



	P	M	K	N	S	H	O
WK40TF	●	●	●	●	●		

DIN 6527 L

Shank DIN 6535 HB



Designation	D _c h12 mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WK40TF
MC319-05.0W4BC-	5	13	16	4,8	57	21	6	4	●
MC319-06.0W4BC-	6	13	13	5,6	57	21	6	4	●
MC319-07.0W4BC-	7	16	26	6,5	63	27	8	4	●
MC319-08.0W4BC-	8	19	25	7,5	63	27	8	4	●
MC319-09.0W4BC-	9	19	31	8,8	72	32	10	4	●
MC319-10.0W4BC-	10	22	30	9,5	72	32	10	4	●
MC319-11.0W4BC-	11	26	35	10,5	83	38	12	4	●
MC319-12.0W4BC-	12	26	36	11,4	83	38	12	4	●
MC319-13.0W4BC-	13	26	35	12,4	83	38	14	4	●
MC319-14.0W4BC-	14	26	36	13,3	83	38	14	4	●
MC319-15.0W4BC-	15	32	41	14,3	92	44	16	4	●
MC319-16.0W4BC-	16	32	42	15,2	92	44	16	4	●
MC319-18.0W4BC-	18	32	42	17,1	92	44	18	4	●
MC319-20.0W4BC-	20	38	52	19	104	54	20	4	●
MC319-25.0W4BC-	25	45	63	23,8	121	65	25	4	●

Slot milling $a_p \leq 2.0 \times D_c$

Shoulder milling $a_e \leq 0.6 \times D_c$

Ordering example for the WK40TF grade: MC319-05.0W4BC-WK40TF

C1

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

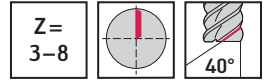
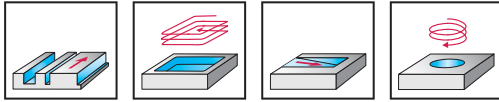
●● Primary application

● Other application

Solid carbide shoulder/slot milling cutters

MC320 Advance /

MC320 Advance



	P	M	K	N	S	H	O
WK40TF	●	●	●	●	●		

DIN 6527 L		D _c h12 mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WK40TF
Shank DIN 6535 HB 	Designation									
	MC320-04.0W3BC-	4	8	15	3,8	57	21	6	3	●
	MC320-04.0W4BC-	4	11	15	3,8	57	21	6	4	●
	MC320-05.0W3BC-	5	10	16	4,8	57	21	6	3	●
	MC320-05.0W4BC-	5	13	16	4,8	57	21	6	4	●
	MC320-06.0W3BC-	6	10	19	5,5	57	21	6	3	●
	MC320-06.0W4BC-	6	13	19	5,5	57	21	6	4	●
	MC320-06.0W5BC-	6	13	19	5,5	57	21	6	5	●
	MC320-08.0W4BC-	8	19	25	7,5	63	27	8	4	●
	MC320-08.0W5BC-	8	19	25	7,5	63	27	8	5	●
	MC320-10.0W4BC-	10	22	30	9,5	72	32	10	4	●
	MC320-10.0W5BC-	10	22	30	9,5	72	32	10	5	●
	MC320-12.0W4BC-	12	26	36	11,4	83	38	12	4	●
	MC320-12.0W5BC-	12	26	36	11,4	83	38	12	5	●
	MC320-14.0W4BC-	14	26	36	13,3	83	38	14	4	●
	MC320-14.0W5BC-	14	26	36	13,3	83	38	14	5	●
	MC320-16.0W4BC-	16	32	42	15,2	92	44	16	4	●
	MC320-16.0W6BC-	16	32	42	15,2	92	44	16	6	●
	MC320-18.0W4BC-	18	32	42	17,1	92	44	18	4	●
	MC320-18.0W6BC-	18	32	42	17,1	92	44	18	6	●
MC320-20.0W4BC-	20	38	52	19	104	54	20	4	●	
MC320-20.0W6BC-	20	38	52	19	104	54	20	6	●	
MC320-20.0W8BC-	20	38	52	19	104	54	20	8	●	
MC320-25.0W4BC-	25	45	63	23,8	121	65	25	4	●	
MC320-25.0W6BC-	25	45	63	23,8	121	65	25	6	●	
MC320-25.0W8BC-	25	45	63	23,8	121	65	25	8	●	

Slot milling $a_p \leq 1.5 \times D_c$

Shoulder milling $a_e \leq 0.6 \times D_c$

Ordering example for the WK40TF grade: MC320-04.0W3BC-WK40TF

Continued

Continued

DIN 6527 K		D_c h12 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WK40TF	
	Shank DIN 6535 HB	MC320-06.0W3A-	6	7	54	18	6	3	☺
	MC320-06.0W4A-	6	7	54	18	6	4	☺	
	MC320-08.0W3A-	8	9	58	18	8	3	☺	
	MC320-08.0W4A-	8	9	58	18	8	4	☺	
	MC320-10.0W3A-	10	11	66	26	10	3	☺	
	MC320-10.0W4A-	10	11	66	26	10	4	☺	
	MC320-12.0W3A-	12	12	73	28	12	3	☺	
	MC320-12.0W4A-	12	12	73	28	12	4	☺	
	MC320-16.0W3A-	16	16	82	34	16	3	☺	
	MC320-16.0W4A-	16	16	82	34	16	4	☺	
	MC320-20.0W3A-	20	20	92	42	20	3	☺	
	MC320-20.0W4A-	20	20	92	42	20	4	☺	
	MC320-25.0W3A-	25	26	121	65	25	3	☺	
	MC320-25.0W4A-	25	26	121	65	25	4	☺	

 Slot milling $a_p \leq 1.0 \times D_c$

 Shoulder milling $a_e \leq 0.6 \times D_c$

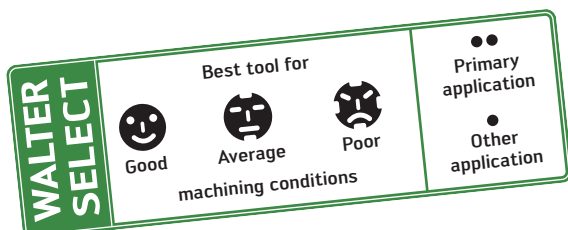
Ordering example for the WK40TF grade: MC320-06.0W3A-WK40TF

STANDARD		D_c h12 Inch/ no.	L_c Inch	l_3 Inch	d_2 Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WK40TF	
	Shank DIN 6535 HB	MC320.6.35W4DC-	1/4"	0,750	0,875	0,230	3,000	1,437	0,375	4	☺
	MC320.9.52W4DC-	3/8"	0,875	1,000	0,355	3,000	1,437	0,375	4	☺	
	MC320.12.7W4DC-	1/2"	1,000	1,374	0,475	3,500	1,717	0,500	4	☺	
	MC320.15.9W4DC-	5/8"	1,250	1,500	0,594	3,500	1,594	0,625	4	☺	
	MC320.19.1W4DC-	3/4"	1,500	2,000	0,713	4,000	1,969	0,750	4	☺	

 Slot milling $a_p \leq 1.5 \times D_c$

 Shoulder milling $a_e \leq 0.6 \times D_c$

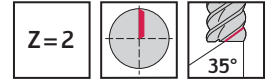
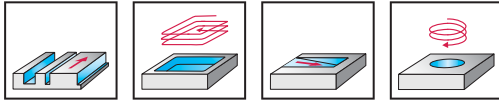
Ordering example for the WK40TF grade: MC320.9.52W4DC-WK40TF



Solid carbide shoulder/slot milling cutters

MC232 Perform /

MC232 Perform



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D_c h12 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A2B-	2	6	57	29	4	2	⊕
	MC232-02.5A2B-	2,5	7	57	29	4	2	⊕
	MC232-03.0A2B-	3	7	57	29	4	2	⊕
	MC232-03.5A2B-	3,5	7	57	29	4	2	⊕
	MC232-04.0A2B-	4	8	57	29	4	2	⊕
Shank DIN 6535 HB	MC232-05.0W2B-	5	10	57	21	6	2	⊕
	MC232-06.0W2B-	6	10	57	21	6	2	⊕
	MC232-08.0W2B-	8	16	63	27	8	2	⊕
	MC232-10.0W2B-	10	19	72	32	10	2	⊕
	MC232-12.0W2B-	12	22	83	38	12	2	⊕
	MC232-16.0W2B-	16	26	92	44	16	2	⊕
	MC232-20.0W2B-	20	32	104	54	20	2	⊕

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232-02.0A2B-WJ30ED

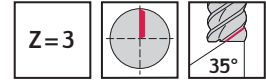
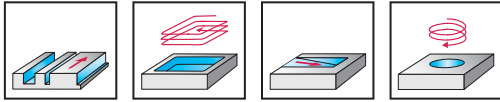
STANDARD		D_c h12 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WJ30ED
Shank DIN 6535 HA	MC232.3.18A2D-	1/8"	0,500	2,500	1,083	0,250	2	⊕
	MC232.6.35A2D-	1/4"	0,750	2,500	1,083	0,250	2	⊕
Shank DIN 6535 HB	MC232.9.53W2D-	3/8"	0,875	3,000	1,437	0,375	2	⊕
	MC232.12.7W2D-	1/2"	1,000	3,500	1,717	0,500	2	⊕
	MC232.15.9W2D-	5/8"	1,250	3,500	1,594	0,625	2	⊕
	MC232.19.1W2D-	3/4"	1,500	4,000	1,969	0,750	2	⊕

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232.3.18A2D-WJ30ED

C1

Solid carbide shoulder/slot milling cutters

MC232 Perform



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L

	Designation	D _c h12 mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30ED
Shank DIN 6535 HA 	MC232-02.0A3BC-	2	6	11,3	1,9	57	29	4	3	●
	MC232-02.5A3BC-	2,5	7	11,7	2,4	57	29	4	3	●
	MC232-03.0A3BC-	3	7	12,1	2,9	57	29	4	3	●
	MC232-03.5A3BC-	3,5	7	15	3,3	57	29	4	3	●
	MC232-04.0A3BC-	4	8	15	3,8	57	29	4	3	●
Shank DIN 6535 HB 	MC232-05.0W3BC-	5	10	18	4,8	57	21	6	3	●
	MC232-06.0W3BC-	6	10	19	5,7	57	21	6	3	●
	MC232-08.0W3BC-	8	16	25	7,6	63	27	8	3	●
	MC232-10.0W3BC-	10	19	30	9,5	72	32	10	3	●
	MC232-12.0W3BC-	12	22	36	11,4	83	38	12	3	●
	MC232-16.0W3BC-	16	26	42	15,2	92	44	16	3	●
MC232-20.0W3BC-	20	32	52	19	104	54	20	3	●	

Slot milling $a_p \leq 0,5 \times D_c$
 Shoulder milling $a_e \leq 0,5 \times D_a$
 Ordering example for the WJ30ED grade: MC232-02.0A3BC-WJ30ED

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

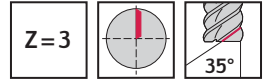
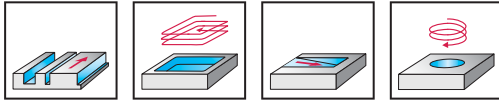
●● Primary application

● Other application

Solid carbide shoulder/slot milling cutters

MC232 Perform /

MC232 Perform



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D_c h12 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A3B-	2	6	57	29	4	3	⊕
	MC232-02.5A3B-	2,5	7	57	29	4	3	⊕
	MC232-03.0A3B-	3	7	57	29	4	3	⊕
	MC232-03.5A3B-	3,5	7	57	29	4	3	⊕
	MC232-04.0A3B-	4	8	57	29	4	3	⊕
Shank DIN 6535 HB	MC232-05.0W3B-	5	10	57	21	6	3	⊕
	MC232-06.0W3B-	6	10	57	21	6	3	⊕
	MC232-08.0W3B-	8	16	63	27	8	3	⊕
	MC232-10.0W3B-	10	19	72	32	10	3	⊕
	MC232-12.0W3B-	12	22	83	38	12	3	⊕
	MC232-16.0W3B-	16	26	92	44	16	3	⊕
	MC232-20.0W3B-	20	32	104	54	20	3	⊕

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232-02.0A3B-WJ30ED

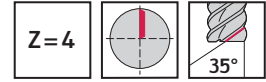
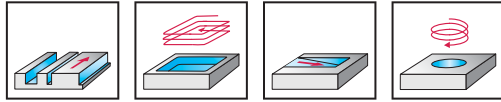
STANDARD		D_c h12 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WJ30ED
Shank DIN 6535 HA	MC232.3.18A3D-	1/8"	0,500	2,500	1,083	0,250	3	⊕
	MC232.6.35A3D-	1/4"	0,750	2,500	1,083	0,250	3	⊕
Shank DIN 6535 HB	MC232.9.53W3D-	3/8"	0,875	3,000	1,437	0,375	3	⊕
	MC232.12.7W3D-	1/2"	1,000	3,500	1,717	0,500	3	⊕
	MC232.15.9W3D-	5/8"	1,250	3,500	1,594	0,625	3	⊕
	MC232.19.1W3D-	3/4"	1,500	4,000	1,969	0,750	3	⊕

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232.3.18A3D-WJ30ED

C1

Solid carbide shoulder/slot milling cutters

MC232 Perform



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D _c h12 mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A4BC-	2	7	11,3	1,9	57	29	4	4	●
	MC232-02.5A4BC-	2,5	8	11,7	2,4	57	29	4	4	●
	MC232-03.0A4BC-	3	8	12,1	2,9	57	29	4	4	●
	MC232-03.5A4BC-	3,5	10	15	3,3	57	29	4	4	●
	MC232-04.0A4BC-	4	11	15	3,8	57	29	4	4	●
Shank DIN 6535 HB	MC232-05.0W4BC-	5	13	18	4,8	57	21	6	4	●
	MC232-06.0W4BC-	6	13	19	5,7	57	21	6	4	●
	MC232-08.0W4BC-	8	19	25	7,6	63	27	8	4	●
	MC232-10.0W4BC-	10	22	30	9,5	72	32	10	4	●
	MC232-12.0W4BC-	12	26	36	11,4	83	38	12	4	●
	MC232-16.0W4BC-	16	32	42	15,2	92	44	16	4	●
	MC232-20.0W4BC-	20	38	52	19	104	54	20	4	●

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_a$
 Ordering example for the WJ30ED grade: MC232-02.0A4BC-WJ30ED

C1

WALTER SELECT

Best tool for

Good

Average

Poor

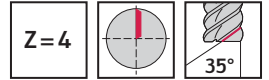
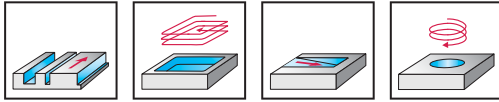
machining conditions

●● Primary application

● Other application

Solid carbide shoulder/slot milling cutters

MC232 Perform /
 MC232 Perform



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D_c h12 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30ED
Shank DIN 6535 HA 	MC232-02.0A4B-	2	7	57	29	4	4	●
	MC232-02.5A4B-	2,5	8	57	29	4	4	●
	MC232-03.0A4B-	3	8	57	29	4	4	●
	MC232-03.5A4B-	3,5	10	57	29	4	4	●
	MC232-04.0A4B-	4	11	57	29	4	4	●
Shank DIN 6535 HB 	MC232-05.0W4B-	5	13	57	21	6	4	●
	MC232-06.0W4B-	6	13	57	21	6	4	●
	MC232-08.0W4B-	8	19	63	27	8	4	●
	MC232-10.0W4B-	10	22	72	32	10	4	●
	MC232-12.0W4B-	12	26	83	38	12	4	●
	MC232-16.0W4B-	16	32	92	44	16	4	●
	MC232-20.0W4B-	20	38	104	54	20	4	●

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232-02.0A4B-WJ30ED

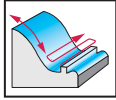
STANDARD		D_c h12 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WJ30ED
Shank DIN 6535 HA 	MC232.3.18A4D-	1/8"	0,500	2,500	1,083	0,250	4	●
	MC232.6.35A4D-	1/4"	0,750	2,500	1,083	0,250	4	●
Shank DIN 6535 HB 	MC232.9.53W4D-	3/8"	0,875	3,000	1,437	0,375	4	●
	MC232.12.7W4D-	1/2"	1,000	3,500	1,717	0,500	4	●
	MC232.15.9W4D-	5/8"	1,250	3,500	1,594	0,625	4	●
	MC232.19.1W4D-	3/4"	1,500	4,000	1,969	0,750	4	●

Shoulder milling $a_e \leq 0.5 \times D_c$
 Slot milling $a_p \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232.3.18A4D-WJ30ED

C1

Solid carbide ball-nose end mills

 MC482 Advance /

 MC482 Advance


	P	M	K	N	S	H	O
WB10TG						●●	

DIN 6527 K		D _c h7 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG
Shank DIN 6535 HA	MC482-03.0A2B-	3	1,5	2,4	57	21	6	2	☺
	MC482-04.0A2B-	4	2	3,2	57	21	6	2	☺
	MC482-05.0A2B-	5	2,5	4	57	21	6	2	☺
	MC482-06.0A2B-	6	3	4,8	57	21	6	2	☺
	MC482-08.0A2B-	8	4	6,4	63	27	8	2	☺

Ordering example for the WB10TG grade: MC482-03.0A2B-WB10TG

DIN 6527 L		D _c h7 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG
Shank DIN 6535 HA	MC482-06.0A2L-	6	3	4,8	80	44	6	2	☺
	MC482-08.0A2L-	8	4	6,4	100	64	8	2	☺
	MC482-10.0A2L-	10	5	8	100	60	10	2	☺
	MC482-12.0A2L-	12	6	9,6	100	55	12	2	☺

Ordering example for the WB10TG grade: MC482-06.0A2L-WB10TG

DIN 6527 L		D _c h7 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG
Shank DIN 6535 HA	MC482-06.0A4B-	6	3	4,8	57	21	6	4	☺
	MC482-08.0A4B-	8	4	6,4	63	27	8	4	☺
	MC482-10.0A4B-	10	5	8	72	32	10	4	☺
	MC482-12.0A4B-	12	6	9,6	83	38	12	4	☺
	MC482-16.0A4B-	16	8	12,8	92	44	16	4	☺

Ordering example for the WB10TG grade: MC482-06.0A4B-WB10TG

Continued

C1

Continued

P STANDARD XL		D _c h7 mm	R mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG	
	Designation											
	Shank DIN 6535 HA	MC482-06.0A4BC-	6	3	4,8	18	5,9	63	27	8	4	☺
		MC482-08.0A4BC-	8	4	6,4	24	7,9	72	32	10	4	☺
		MC482-10.0A4BC-	10	5	8	30	9,9	83	38	12	4	☺
		MC482-12.0A4BC-	12	6	9,6	36	11,8	83	38	12	4	☺
		MC482-16.0A4BC-	16	8	12,8	42	15,8	92	44	16	4	☺

Ordering example for the WB10TG grade: MC482-06.0A4BC-WB10TG

P STANDARD XL		D _c h7 mm	R mm	L _c mm	l ₃ mm	α	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG	
	Designation											
	Shank DIN 6535 HA	MC482-01.0A2PV-	1	0,5	0,8	17	2,5°	57	21	6	2	☺
		MC482-01.0A2PW-	1	0,5	0,8	17	4°	57	21	6	2	☺
		MC482-01.5A2PV-	1,5	0,8	1,2	17	2,5°	57	21	6	2	☺
		MC482-01.5A2PW-	1,5	0,8	1,2	17	4°	57	21	6	2	☺
		MC482-02.0A2PV-	2	1	1,6	18	2,5°	57	21	6	2	☺
		MC482-02.0A2PW-	2	1	1,6	18	4°	57	21	6	2	☺
		MC482-03.0A2PV-	3	1,5	2,4	19	2,5°	57	21	6	2	☺
		MC482-03.0A2PW-	3	1,5	2,4	19	4°	57	21	6	2	☺
		MC482-03.0A2LV-	3	1,5	2,4	38	2,5°	80	44	6	2	☺
		MC482-04.0A2PV-	4	2	3,2	20	2,5°	57	21	6	2	☺
		MC482-04.0A2PW-	4	2	3,2	20	4°	57	21	6	2	☺

Ordering example for the WB10TG grade: MC482-01.0A2PV-WB10TG

Tool		D _c h7 Inch/ no.	R Inch	L _c Inch	l ₃ Inch	d ₂ Inch	l ₁ Inch	l ₄ Inch	d ₁ h5 Inch	Z	WB10TG	
	Designation											
		MC482.3.18A2PC-	1/8"	0,063	0,125	0,375	0,121	2,500	1,083	0,250	2	☺
		MC482.4.76A2PC-	3/16"	0,094	0,188	0,500	0,184	2,500	1,083	0,250	2	☺
		MC482.6.35A2PC-	1/4"	0,125	0,250	0,875	0,246	2,500	1,083	0,250	2	☺
		MC482.9.53A2PB-	3/8"	0,188	0,375	1,000	0,369	3,000	1,437	0,375	2	☺
		MC482.12.7A2PB-	1/2"	0,250	0,500	1,375	0,492	3,500	1,717	0,500	2	☺

Ordering example for the WB10TG grade: MC482.3.18A2PC-WB10TG

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹
Poor

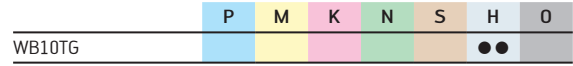
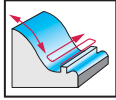
machining conditions

•• Primary application

• Other application

Solid carbide ball-nose end mills

MC480 Advance



P STANDARD MINI

	Designation	D _c h7 mm	R mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG
Shank DIN 6535 HA	MC480-00.4A2MC-	0,4	0,2	0,3	1	0,4	38	12	4	2	☺
	MC480-00.5A2MC-	0,5	0,25	0,4	1,5	0,5	38	12	4	2	☺
	MC480-00.6A2MC-	0,6	0,3	0,5	2	0,6	38	12	4	2	☺
	MC480-00.8A2MC-	0,8	0,4	0,6	2	0,8	38	12	4	2	☺
	MC480-01.0A2MB-	1	0,5	0,8	2	1,0	50	22	4	2	☺
	MC480-01.0A2ME-	1	0,5	0,8	5	1,0	50	22	4	2	☺
	MC480-01.0A2MG-	1	0,5	0,8	8	1,0	50	22	4	2	☺
	MC480-01.5A2MC-	1,5	0,75	1,2	4	1,5	50	22	4	2	☺
	MC480-01.5A2ME-	1,5	0,75	1,2	8	1,5	50	22	4	2	☺
	MC480-01.5A2MG-	1,5	0,75	1,2	12	1,5	50	22	4	2	☺
	MC480-02.0A2MB-	2	1	1,6	3	2,0	50	22	4	2	☺
	MC480-02.0A2MC-	2	1	1,6	6	2,0	50	22	4	2	☺
	MC480-02.0A2ME-	2	1	1,6	10	2,0	50	22	4	2	☺
	MC480-02.0A2MG-	2	1	1,6	16	2,0	50	22	4	2	☺
	MC480-03.0A2MC-	3	1,5	2,4	8	3,0	50	22	4	2	☺
	MC480-03.0A2ME-	3	1,5	2,4	16	3,0	50	22	4	2	☺
	MC480-03.0A2MG-	3	1,5	2,4	25	3,0	60	32	4	2	☺
	MC480-04.0A2MC-	4	2	3,2	10	4,0	65	29	6	2	☺
	MC480-04.0A2ME-	4	2	3,2	20	4,0	65	29	6	2	☺
	MC480-05.0A2MD-	5	2,5	4	20	5,0	65	29	6	2	☺

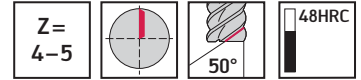
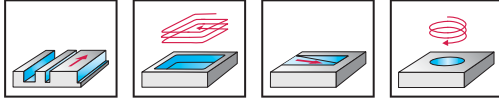
Ordering example for the WB10TG grade: MC480-00.4A2MC-WB10TG

Solid carbide shoulder/slot milling cutters

MC326 / MC326



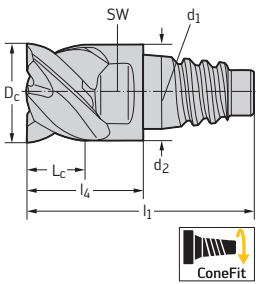
- Type N 50



P	M	K	N	S	H	O
●	●	●	●	●	●	●

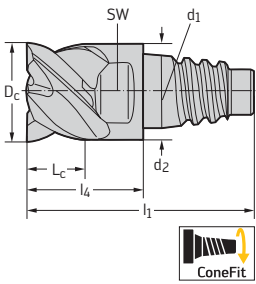
WJ30TF

PWZ		D _c h10 mm	L _c mm	d ₂ mm	l ₁ mm	l ₄ mm	SW mm	d ₁ mm	Z	WJ30TF
ConeFit	MC326-10.0E4P-	10	5,5	9,7	23,6	12,4	8	E10	4	☉
	MC326-12.0E4P-	12	6,5	11,7	28,3	14,5	10	E12	4	☉
	MC326-16.0E4P-	16	8,5	15,5	35,7	18,7	12	E16	4	☉
	MC326-20.0E4P-	20	11	19,3	40,8	21,3	16	E20	4	☉
	MC326-25.0E5P-	25	13,5	24,2	49,6	25,6	20	E25	5	☉



Slot milling $a_p \leq 0.4 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30TF grade: MC326-10.0E4P-WJ30TF

PWZ		D _c h9 Inch/no.	L _c Inch	d ₂ Inch	l ₁ Inch	l ₄ Inch	SW Inch	d ₁ Inch	Z	WJ30TF
ConeFit	MC326.9.53E4P-	3/8"	0,209	0,364	0,929	0,488	0,315	E10	4	☉
	MC326.12.7E4P-	1/2"	0,276	0,484	1,114	0,575	0,394	E12	4	☉
	MC326.15.9E4P-	5/8"	0,335	0,610	1,406	0,736	0,472	E16	4	☉
	MC326.19.1E4P-	3/4"	0,413	0,728	1,606	0,839	0,630	E20	4	☉
	MC326.25.4E5P-	1"	0,551	0,965	1,953	1,008	0,787	E25	5	☉



Slot milling $a_p \leq 0.4 \times D_c$
 Shoulder milling $a_e \leq 0.05 \times D_c$
 Ordering example for the WJ30TF grade: MC326.9.53E4P-WJ30TF

Continued

Continued

PWZ		D_c h9 mm	R mm	L_c mm	d_2 mm	l_1 mm	l_4 mm	SW mm	d_1 mm	Z	WJ30TF
ConeFit 	Designation										
	MC326-10.0E4P050-	10	0,5	5,5	9,7	23,6	12,4	8	E10	4	☺☺
	MC326-10.0E4P100-	10	1	5,5	9,7	23,6	12,4	8	E10	4	☺☺
	MC326-10.0E4P150-	10	1,5	5,5	9,7	23,6	12,4	8	E10	4	☺☺
	MC326-10.0E4P200-	10	2	5,5	9,7	23,6	12,4	8	E10	4	☺☺
	MC326-10.0E4P300-	10	3	5,5	9,7	23,6	12,4	8	E10	4	☺☺
	MC326-12.0E4P050-	12	0,5	6,5	11,7	28,3	14,5	10	E12	4	☺☺
	MC326-12.0E4P100-	12	1	6,5	11,7	28,3	14,5	10	E12	4	☺☺
	MC326-12.0E4P150-	12	1,5	6,5	11,7	28,3	14,5	10	E12	4	☺☺
	MC326-12.0E4P200-	12	2	6,5	11,7	28,3	14,5	10	E12	4	☺☺
	MC326-12.0E4P300-	12	3	6,5	11,7	28,3	14,5	10	E12	4	☺☺
	MC326-12.0E4P400-	12	4	6,5	11,7	28,3	14,5	10	E12	4	☺☺
	MC326-16.0E4P050-	16	0,5	8,5	15,5	35,7	18,7	12	E16	4	☺☺
	MC326-16.0E4P100-	16	1	8,5	15,5	35,7	18,7	12	E16	4	☺☺
	MC326-16.0E4P150-	16	1,5	8,5	15,5	35,7	18,7	12	E16	4	☺☺
	MC326-16.0E4P200-	16	2	8,5	15,5	35,7	18,7	12	E16	4	☺☺
	MC326-16.0E4P300-	16	3	8,5	15,5	35,7	18,7	12	E16	4	☺☺
	MC326-16.0E4P400-	16	4	8,5	15,5	35,7	18,7	12	E16	4	☺☺
	MC326-20.0E4P050-	20	0,5	11	19,3	40,8	21,3	16	E20	4	☺☺
	MC326-20.0E4P100-	20	1	11	19,3	40,8	21,3	16	E20	4	☺☺
	MC326-20.0E4P150-	20	1,5	11	19,3	40,8	21,3	16	E20	4	☺☺
	MC326-20.0E4P200-	20	2	11	19,3	40,8	21,3	16	E20	4	☺☺
	MC326-20.0E4P300-	20	3	11	19,3	40,8	21,3	16	E20	4	☺☺
	MC326-20.0E4P400-	20	4	11	19,3	40,8	21,3	16	E20	4	☺☺
	MC326-25.0E5P100-	25	1	13,5	24,2	49,6	25,6	20	E25	5	☺☺
	MC326-25.0E5P150-	25	1,5	13,5	24,2	49,6	25,6	20	E25	5	☺☺
	MC326-25.0E5P200-	25	2	13,5	24,2	49,6	25,6	20	E25	5	☺☺
	MC326-25.0E5P300-	25	3	13,5	24,2	49,6	25,6	20	E25	5	☺☺
MC326-25.0E5P400-	25	4	13,5	24,2	49,6	25,6	20	E25	5	☺☺	

 Slot milling $a_p \leq 0,4 \times D_c$

 Shoulder milling $a_e \leq 0,5 \times D_c$

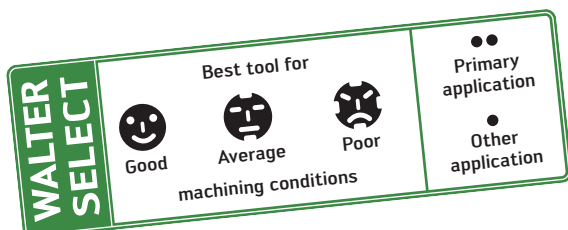
Ordering example for the WJ30TF grade: MC326-10.0E4P050-WJ30TF

PWZ		D_c h9 Inch/no.	R Inch	L_c Inch	d_2 Inch	l_1 Inch	l_4 Inch	SW Inch	d_1 Inch	Z	WJ30TF	
ConeFit 	Designation											
	MC326.9.53E4P038-	3/8"	0,015	0,209	0,364	0,929	0,488	0,315	E10	4	☺☺	
	MC326.9.53E4P076-	3/8"	0,030	0,209	0,364	0,929	0,488	0,315	E10	4	☺☺	
	MC326.12.7E4P038-	1/2"	0,015	0,276	0,484	1,114	0,575	0,394	E12	4	☺☺	
	MC326.12.7E4P076-	1/2"	0,030	0,276	0,484	1,114	0,575	0,394	E12	4	☺☺	
	MC326.12.7E4P152-	1/2"	0,060	0,276	0,484	1,114	0,575	0,394	E12	4	☺☺	
	MC326.15.9E4P152-	5/8"	0,060	0,335	0,610	1,406	0,736	0,472	E16	4	☺☺	
	MC326.19.1E4P152-	3/4"	0,060	0,413	0,728	1,606	0,839	0,630	E20	4	☺☺	
	MC326.19.1E4P318-	3/4"	0,125	0,413	0,728	1,606	0,839	0,630	E20	4	☺☺	
	MC326.25.4E5P152-	1"	0,060	0,551	0,965	1,953	1,008	0,787	E25	5	☺☺	
	MC326.25.4E5P318-	1"	0,125	0,551	0,965	1,953	1,008	0,787	E25	5	☺☺	

 Slot milling $a_p \leq 0,4 \times D_c$

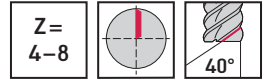
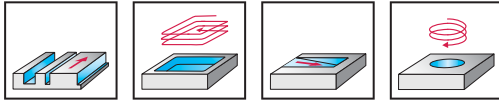
 Shoulder milling $a_e \leq 0,5 \times D_c$

Ordering example for the WJ30TF grade: MC326.9.53E4P038-WJ30TF



Solid carbide shoulder/slot milling cutters

MC320 mm



	P	M	K	N	S	H	O
WJ30TF	●	●	●	●	●		

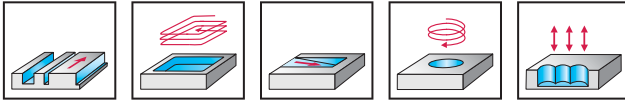
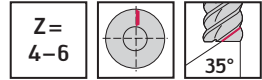
PWZ		D_c h12 mm	L_c mm	d_2 mm	l_1 mm	l_4 mm	SW mm	d_1 mm	Z	WJ30TF
ConeFit 	Designation									
	MC320-10.0E4P-	10	5,5	9,7	23,6	12,4	8	E10	4	☺
	MC320-10.0E5P-	10	5,5	9,7	23,6	12,4	8	E10	5	☺
	MC320-12.0E4P-	12	6,5	11,7	28,3	14,5	10	E12	4	☺
	MC320-12.0E5P-	12	6,5	11,7	28,3	14,5	10	E12	5	☺
	MC320-16.0E6P-	16	8,5	15,5	35,7	18,7	12	E16	6	☺
	MC320-20.0E6P-	20	11	19,3	40,8	21,3	16	E20	6	☺
MC320-25.0E8P-	25	25	24,2	49,6	25,6	20	E25	8	☺	

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30TF grade: MC320-10.0E4P-WJ30TF

C1

Ceramic shoulder/slot milling cutters

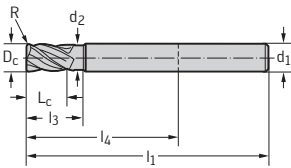
MC275



	P	M	K	N	S	H	O
WIS10					●●		

P STANDARD

	Designation	D _c h12 mm	R mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WIS10
Shank DIN 6535 HA	MC275-08.0A4P100C-	8	1	7	19	7,6	67	31	8	4	☺
	MC275-10.0A4P100C-	10	1	7	22	9,5	75	35	10	4	☺
	MC275-12.0A4P100C-	12	1	7	26	11,4	82	37	12	4	☺
	MC275-12.0A6P100C-	12	1	7	26	11,4	82	37	12	6	☺



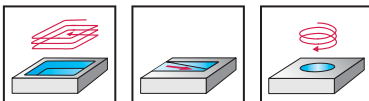
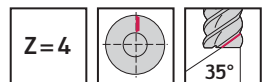
Shoulder milling $a_e \leq 0.1 \times D_c$

Slot milling $a_p \leq 0.1 \times D_c$

Ordering example for the WIS10 grade: MC275-08.0A4P100C-WIS10

Ceramic shoulder/slot milling cutters

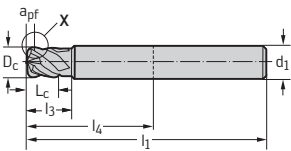
MC075



	P	M	K	N	S	H	O
WIS10					●●		

P STANDARD

	Designation	D _c h12 mm	a _{pf} mm	x _f mm	R _f mm	R _{ers} mm	R mm	L _c mm	l ₁ mm	l ₃ mm	l ₄ mm	d ₁ h6 mm	WIS10
Shank DIN 6535 HA	MC075-08.0A4P100C-	8	0,25	0,78	12	1,226	1	7	67	19	31	8	☺
	MC075-10.0A4P150C-	10	0,3	0,8	15	1,773	1,5	7	75	22	35	10	☺
	MC075-12.0A4P150C-	12	0,4	1	18	1,875	1,5	7	82	26	37	12	☺

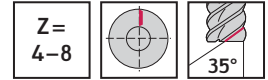
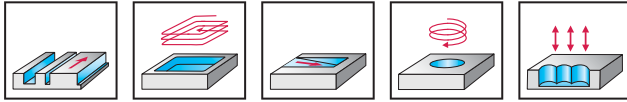


Shoulder milling $a_e \leq 0.5 \times D_a$

Ordering example for the WIS10 grade: MC075-08.0A4P100C-WIS10

Ceramic shoulder/slot milling cutters

MC275 mm



	P	M	K	N	S	H	O
WIS10					●●		

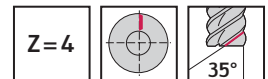
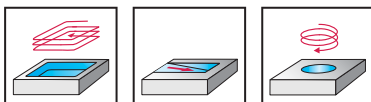
P STANDARD

	Designation	D _c h12 mm	R mm	L _c mm	d ₂ mm	l ₁ mm	l ₄ mm	SW mm	d ₁ mm	Z	WIS10
ConeFit 	MC275-12.0E4P100-	12	1	7	11,7	32,6	18,8	10	E12	4	☉
	MC275-12.0E6P100-	12	1	7	11,7	32,6	18,8	10	E12	6	☉
	MC275-16.0E6P150-	16	1,5	9	15,5	42,7	25,7	12	E16	6	☉
	MC275-16.0E8P150-	16	1,5	9	15,5	42,7	25,7	12	E16	8	☉
	MC275-20.0E6P150-	20	1,5	9	19,3	47,8	28,3	16	E20	6	☉
	MC275-20.0E8P150-	20	1,5	9	19,3	47,8	28,3	16	E20	8	☉
	MC275-25.0E6P150-	25	1,5	9	24,2	56,6	32,6	20	E25	6	☉
	MC275-25.0E8P150-	25	1,5	9	24,2	56,6	32,6	20	E25	8	☉

Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WIS10 grade: MC275-12.0E4P100-WIS10

Ceramic shoulder/slot milling cutters

MC075 mm



	P	M	K	N	S	H	O
WIS10					●●		

P STANDARD

	Designation	D _c h12 mm	a _{pf} mm	x _f mm	R _f mm	R _{ers} mm	R mm	L _c mm	l ₁ mm	l ₄ mm	SW mm	d ₁ mm	Z	WIS10
ConeFit 	MC075-16.0E4P200-	16	0,5	1,5	24	2,465	2	9	42,7	25,7	12	E16	4	☉
	MC075-20.0E4P200-	20	0,65	2,2	30	2,607	2	9	47,8	28,3	16	E20	4	☉
	MC075-25.0E4P300-	25	0,75	2,8	36	3,687	3	9	56,6	32,6	20	E25	4	☉

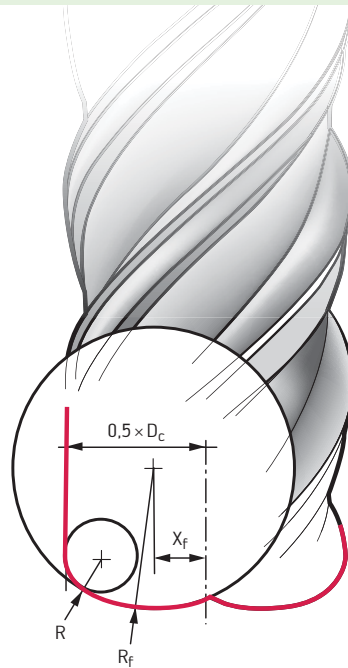
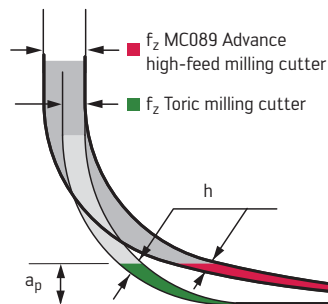
Shoulder milling $a_e \leq 0.05 \times D_c$
 Ordering example for the WIS10 grade: MC075-16.0E4P200-WIS10

C1

High-feed geometry

MC089 Advance high-feed milling cutter

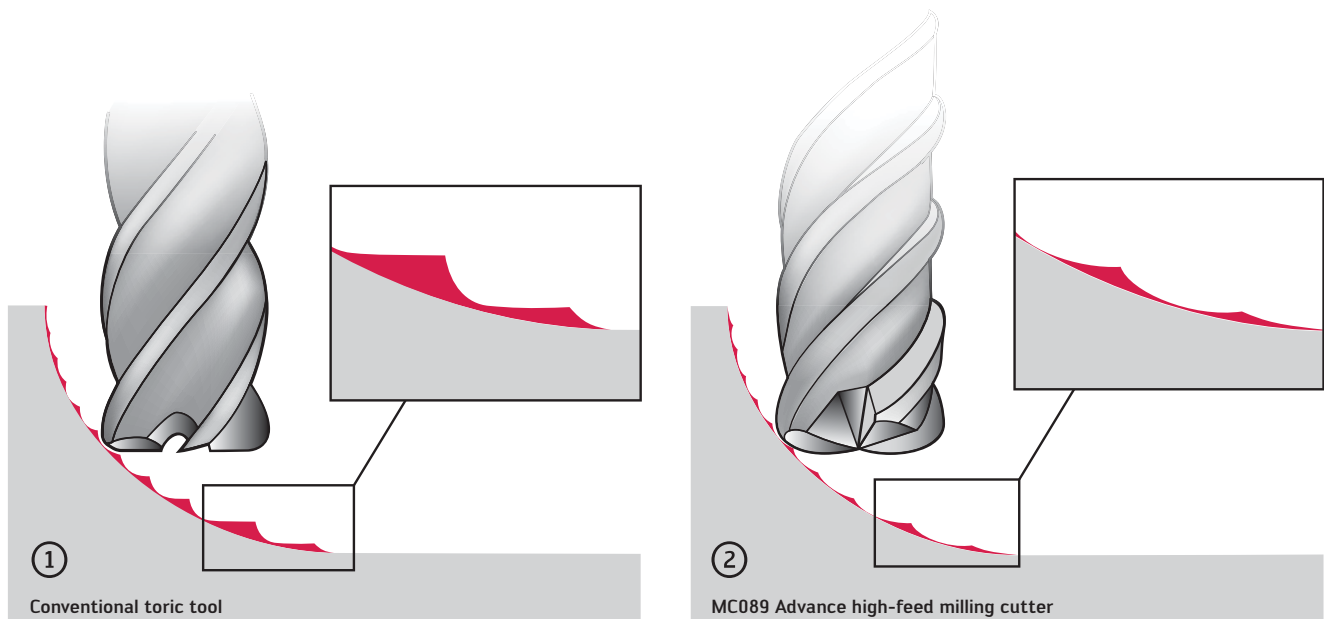
The chip thickness "h" is reduced thanks to the special end-face geometry. Extremely high feeds are possible. Forces are diverted axially towards the centre of the tool. This stabilises the machining process.



Despite operating at double the feed rate, the chip thickness (h) produced by MC089 Advance remains thinner.

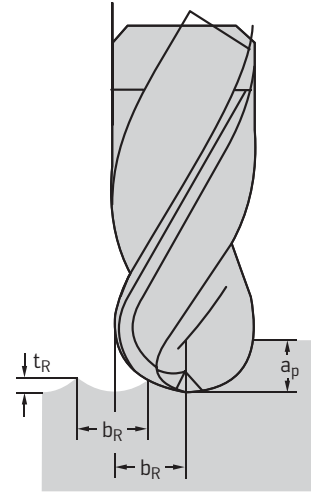
In comparison with conventional toric tools (figure 1), the MC089 Advance high-feed milling cutter (figure 2) reduces the amount of residual material produced. This is due to the special geometry that minimises the machining of residual material and increases the tool life of the subsequent finishing tool.

C1



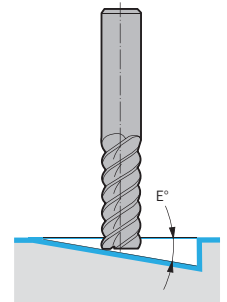
Usage recommendations for copying and finishing with the MC480 / MC482 Advance

Tool diameter D_c (mm)	Row width (b_R) for groove depth $t_R = 5 \mu\text{m}$	Row width (b_R) for groove depth $t_R = 2 \mu\text{m}$
0,4	0,09	0,05
0,5	0,10	0,06
0,6	0,11	0,07
0,8	0,12	0,08
1,0	0,14	0,09
1,5	0,17	0,11
2,0	0,20	0,12
2,5	0,22	0,14
3,0	0,25	0,16
4,0	0,28	0,18
5,0	0,31	0,20
6,0	0,34	0,22
8,0	0,40	0,25
10,0	0,45	0,28
12,0	0,49	0,31
16,0	0,56	0,36



Maximum feed angle [°] on MC183 Advance, MC187 Advance, MC281 Advance, MC388 Advance

Material groups	Material	Number of teeth					
		2	3	4	5	6-8	8
H	Hard materials	2	2	1,5	1,5	1,5	1

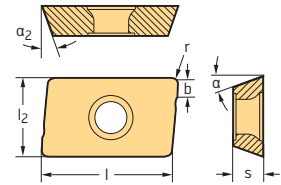


Coated carbide

Walter grade designation	Standard designation	Material groups						Application range							Coating process	Coating composition	Tool example	
		P	M	K	N	S	H	O	01	05	10	15	20	25				30
WB10TG	HC - P 10	●														PVD	TiAlSiN	
	HC - H 10						●●											

C1

Positive rhombic ADGT / ADHT / ADKT Tiger-tec® Gold

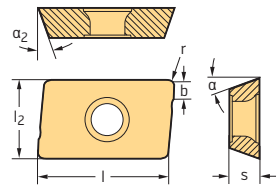


Indexable inserts



Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	α ₂	r mm	b mm	P				M		K				N		S				
										HC				HC		HC				HC	HW	HC				
										WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S		
	ADGT0803PER-D51	G	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☺	☺	☺	☺	☺			☺	☺	☺					☺	
	ADGT1204PER-D51	G	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☺	☺	☺	☺	☺			☺	☺	☺					☺	
	ADGT1606PER-D51	G	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☺	☺	☺	☺	☺			☺	☺	☺					☺	
	ADGT1807PER-D51	G	2	14,5	19	7,94	15°	17°	1,2	1,8	☺	☺	☺	☺	☺			☺	☺	☺					☺	
	ADGT0803PER-D56	G	2	6,75	9,52	3,18	15°	20°	0,4	1,2				☺	☺										☺	
	ADGT1204PER-D56	G	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☺	☺	☺	☺	☺			☺	☺	☺					☺	
	ADGT1606PER-D56	G	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☺	☺	☺	☺	☺			☺	☺	☺					☺	
	ADGT1807PER-D56	G	2	14,5	19	7,94	15°	17°	1,2	1,8	☺	☺	☺	☺	☺			☺	☺	☺					☺	
	ADGT10T3PER-D67	G	2	7,25	11,3	3,97	15°	15°	0,8	1,2		☺	☺	☺	☺					☺					☺	
	ADGT10T316R-D67	G	2	7,25	11,3	3,97	15°	15°	1,6	1,2					☺										☺	
	ADGT10T330R-D67	G	2	7,25	11,3	3,97	15°	15°	3	0,8					☺										☺	
	ADGT10T332R-D67	G	2	7,25	11,3	3,97	15°	15°	3,2	0,8					☺											☺
	ADGT1204PER-D67	G	2	8,4	13,6	4,76	15°	20°	0,8	1,2		☺	☺	☺	☺					☺						☺
	ADGT120416R-D67	G	2	8,4	13,6	4,76	15°	20°	1,6	1					☺											☺
	ADGT120430R-D67	G	2	8,4	13,6	4,76	15°	20°	3	0,8					☺											☺
	ADGT1606PER-D67	G	2	10,8	17,5	6,15	15°	20°	0,8	1,6		☺	☺	☺	☺					☺						☺
	ADGT160616R-D67	G	2	10,8	17,5	6,15	15°	20°	1,6	1					☺											☺
	ADGT160630R-D67	G	2	10,8	17,5	6,15	15°	20°	3	0,8					☺											☺
		ADGT0803PER-F56	G	2	6,75	9,52	3,18	15°	20°	0,4	1,2				☺	☺										☺
		ADGT080308R-F56	G	2	6,75	9,52	3,18	15°	20°	0,8	1,2				☺	☺										☺
		ADGT120404R-F56	G	2	8,4	13,6	4,76	15°	20°	0,4	1,2				☺	☺										☺
ADGT1204PER-F56		G	2	8,4	13,6	4,76	15°	20°	0,8	1,2				☺	☺											☺
ADGT120430R-F56		G	2	8,4	13,6	4,76	15°	20°	3	0,8				☺	☺											☺
ADGT120440R-F56		G	2	8,4	13,6	4,76	15°	20°	4	0,4				☺	☺											☺
ADGT1606PER-F56		G	2	10,8	17,5	6,15	15°	20°	0,8	1,6				☺	☺											☺
ADGT160612R-F56		G	2	10,8	17,5	6,15	15°	20°	1,2	1,6				☺	☺											☺
ADGT160616R-F56		G	2	10,8	17,5	6,15	15°	20°	1,6	1,4				☺	☺											☺
ADGT160620R-F56		G	2	10,8	17,5	6,15	15°	20°	2	1,4				☺	☺											☺
ADGT160632R-F56		G	2	10,8	17,5	6,15	15°	20°	3,2	1,2				☺	☺											☺
ADGT160640R-F56		G	2	10,8	17,5	6,15	15°	20°	4	1				☺	☺											☺
ADGT160650R-F56		G	2	10,8	17,5	6,15	15°	20°	5	0,4				☺	☺											☺
ADGT160660R-F56	G	2	10,8	17,5	6,15	15°	20°	6	0,4				☺	☺											☺	
	ADGT10T3PER-G77	G	2	7,25	11,3	3,97	15°	15°	0,8	1,2				☺	☺										☺	
	ADGT1204PER-G77	G	2	8,4	13,6	4,76	15°	20°	0,8	1,2				☺	☺										☺	
	ADGT1606PER-G77	G	2	10,8	17,5	6,15	15°	20°	0,8	1,2				☺	☺										☺	

HC = Coated carbide
HW = Uncoated carbide

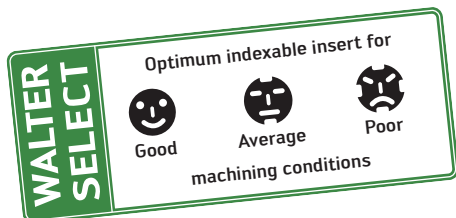
Positive rhombic ADGT / ADHT / ADKT Tiger-tec® Gold



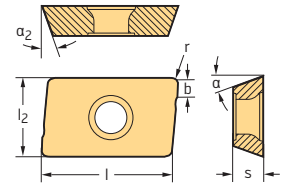
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	α ₂	r mm	b mm	P				M		K				N		S	
										HC				HC		HC				HC	HW	HC	
										WKP255	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
 ADHT0803PER-G88	H	2	6,75	9,52	3,18	15°	20°	0,4	1,2														
ADHT0803PEL-G88	H	2	6,75	9,52	3,18	15°	20°	0,4	1,2														
ADHT10T3PER-G88	H	2	7,25	11,3	3,97	15°	15°	0,8	1,2														
ADHT1204PER-G88	H	2	8,4	13,6	4,76	15°	20°	0,8	1,2														
ADHT1204PEL-G88	H	2	8,4	13,6	4,76	15°	20°	0,8	1,2														
ADHT120416R-G88	H	2	8,4	13,6	4,76	15°	20°	1,6	1														
ADHT120416L-G88	H	2	8,4	13,6	4,76	15°	20°	1,6	1														
ADHT120425R-G88	H	2	8,4	13,6	4,76	15°	20°	2,5	0,8														
ADHT120425L-G88	H	2	8,4	13,6	4,76	15°	20°	2,5	0,8														
ADHT120430R-G88	H	2	8,4	13,6	4,76	15°	20°	3	0,8														
ADHT120430L-G88	H	2	8,4	13,6	4,76	15°	20°	3	0,8														
ADHT120440R-G88	H	2	8,4	13,6	4,76	15°	20°	4	0,4														
ADHT120440L-G88	H	2	8,4	13,6	4,76	15°	20°	4	0,4														
ADHT1606PER-G88	H	2	10,8	17,5	6,15	15°	20°	0,8	1,6														
ADHT1606PEL-G88	H	2	10,8	17,5	6,15	15°	20°	0,8	1,6														
ADHT160616R-G88	H	2	10,8	17,5	6,15	15°	20°	1,6	1,4														
ADHT160616L-G88	H	2	10,8	17,5	6,15	15°	20°	1,6	1,4														
ADHT160625R-G88	H	2	10,8	17,5	6,15	15°	20°	2,5	1,2														
ADHT160625L-G88	H	2	10,8	17,5	6,15	15°	20°	2,5	1,2														
ADHT160630R-G88	H	2	10,8	17,5	6,15	15°	20°	3	1,2														
ADHT160640R-G88	H	2	10,8	17,5	6,15	15°	20°	4	1														
ADHT160640L-G88	H	2	10,8	17,5	6,15	15°	20°	4	1														
 ADKT0803PER-F56	K	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADKT0803PEL-F56	K	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADKT10T3PER-F56	K	2	7,25	11,3	3,97	15°	15°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADKT1204PER-F56	K	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADKT1204PEL-F56	K	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADKT1606PER-F56	K	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADKT1606PEL-F56	K	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉


HC = Coated carbide
HW = Uncoated carbide



Positive rhombic
ADMT
Tiger-tec® Gold

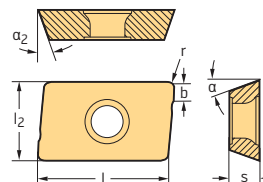


Indexable inserts


Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	α ₂	r mm	b mm	P				M			K				S				
										HC				HC			HC				HC				
										WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S	
 ADMT080304R-D56	M	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☺	☺	☺	☺			☺	☺	☺	☺	☺	☺	☺			☺
ADMT120408R-D56	M	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☺	☺	☺	☺			☺	☺	☺	☺	☺	☺	☺			☺
ADMT160608R-D56	M	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☺	☺	☺	☺			☺	☺	☺	☺	☺	☺	☺			☺
ADMT180712R-D56	M	2	14,5	19	7,94	15°	17°	1,2	1,8	☺	☺	☺	☺			☺	☺	☺	☺	☺	☺	☺			☺

HC = Coated carbide

Positive rhombic ADMT Tiger-tec® Gold

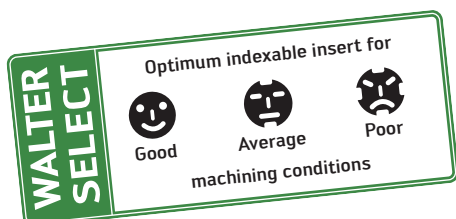


Indexable inserts



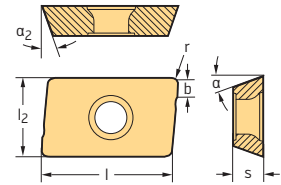
Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	α ₂	r mm	b mm	P				M			K				S							
										HC				HC			HC				HC							
										WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S				
ADMT080302R-F56	M	2	6,75	9,52	3,18	15°	20°	0,2	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT080304R-F56	M	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT080304L-F56	M	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT080308R-F56	M	2	6,75	9,52	3,18	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT080308L-F56	M	2	6,75	9,52	3,18	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT080312R-F56	M	2	6,75	9,52	3,18	15°	20°	1,2	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT080316R-F56	M	2	6,75	9,52	3,18	15°	20°	1,6	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT080320R-F56	M	2	6,75	9,52	3,18	15°	20°	2	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT10T304R-F56	M	2	7,25	11,3	3,97	15°	15°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT10T308R-F56	M	2	7,25	11,3	3,97	15°	15°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT10T312R-F56	M	2	7,25	11,3	3,97	15°	15°	1,2	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT10T316R-F56	M	2	7,25	11,3	3,97	15°	15°	1,6	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT10T320R-F56	M	2	7,25	11,3	3,97	15°	15°	2	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT10T325R-F56	M	2	7,25	11,3	3,97	15°	15°	2,5	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT10T330R-F56	M	2	7,25	11,3	3,97	15°	15°	3	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT10T332R-F56	M	2	7,25	11,3	3,97	15°	15°	3,2	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120404R-F56	M	2	8,4	13,6	4,76	15°	20°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120408R-F56	M	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120408L-F56	M	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120412R-F56	M	2	8,4	13,6	4,76	15°	20°	1,2	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120416R-F56	M	2	8,4	13,6	4,76	15°	20°	1,6	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120416L-F56	M	2	8,4	13,6	4,76	15°	20°	1,6	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120420R-F56	M	2	8,4	13,6	4,76	15°	20°	2	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120425R-F56	M	2	8,4	13,6	4,76	15°	20°	2,5	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120425L-F56	M	2	8,4	13,6	4,76	15°	20°	2,5	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120430R-F56	M	2	8,4	13,6	4,76	15°	20°	3	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120430L-F56	M	2	8,4	13,6	4,76	15°	20°	3	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120432R-F56	M	2	8,4	13,6	4,76	15°	20°	3,2	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120440R-F56	M	2	8,4	13,6	4,76	15°	20°	4	0,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT120440L-F56	M	2	8,4	13,6	4,76	15°	20°	4	0,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT160608R-F56	M	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT160608L-F56	M	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT160612R-F56	M	2	10,8	17,5	6,15	15°	20°	1,2	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT160616R-F56	M	2	10,8	17,5	6,15	15°	20°	1,6	1,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT160616L-F56	M	2	10,8	17,5	6,15	15°	20°	1,6	1,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT160620R-F56	M	2	10,8	17,5	6,15	15°	20°	2	1,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT160625R-F56	M	2	10,8	17,5	6,15	15°	20°	2,5	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADMT160625L-F56	M	2	10,8	17,5	6,15	15°	20°	2,5	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉

HC = Coated carbide





C2

Positive rhombic ADMT Tiger-tec® Gold

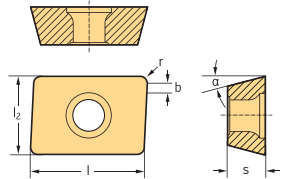


Indexable inserts




Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	α ₂	r mm	b mm	P				M			K			S					
										HC				HC			HC			HC					
										WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S	
 ADMT160630R-F56	M	2	10,8	17,5	6,15	15°	20°	3	1,2	☒	☒	☒	☒	☒	☒	☒				☒	☒	☒	☒	☒	☒
ADMT160630L-F56	M	2	10,8	17,5	6,15	15°	20°	3	1,2	☒	☒	☒	☒			☒				☒					☒
ADMT160632R-F56	M	2	10,8	17,5	6,15	15°	20°	3,2	1,2	☒	☒	☒	☒	☒	☒	☒				☒	☒	☒	☒	☒	☒
ADMT160640R-F56	M	2	10,8	17,5	6,15	15°	20°	4	1	☒	☒	☒	☒	☒	☒	☒				☒	☒	☒	☒	☒	☒
ADMT160640L-F56	M	2	10,8	17,5	6,15	15°	20°	4	1	☒	☒	☒	☒			☒				☒					☒
ADMT160650R-F56	M	2	10,8	17,5	6,15	15°	20°	5		☒	☒	☒	☒	☒	☒	☒				☒	☒	☒	☒	☒	☒
ADMT160660R-F56	M	2	10,8	17,5	6,15	15°	20°	6		☒	☒	☒	☒	☒	☒	☒				☒	☒	☒	☒	☒	☒
ADMT180712R-F56	M	2	14,5	19	7,94	15°	17°	1,2	1,8	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
 ADMT080304R-G56	M	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☒	☒	☒	☒	☒	☒	☒				☒	☒	☒	☒	☒	☒
ADMT10T308R-G56	M	2	7,25	11,3	3,97	15°	15°	0,8	1,2	☒	☒	☒	☒	☒	☒	☒				☒	☒	☒	☒	☒	☒
ADMT120408R-G56	M	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☒	☒	☒	☒	☒	☒	☒				☒	☒	☒	☒	☒	☒
ADMT160608R-G56	M	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☒	☒	☒	☒	☒	☒	☒				☒	☒	☒	☒	☒	☒

HC = Coated carbide

Positive rhombic LDMW / LDMT Tiger-tec® Gold



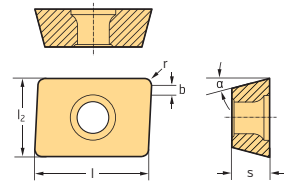
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	b mm	P				M		K			S						
									HC				HC		HC			HC						
									WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSP45S			
 LDMW08T204R-A57	M	2	6,1	8,88	2,58	15°	0,4	0,8	☒	☒	☒							☒	☒	☒				
LDMW14T308R-A57	M	2	9,68	14,1	4,08	15°	0,8	1,2	☒	☒	☒							☒	☒	☒				
LDMW170408R-A57	M	2	11,78	17,24	4,92	15°	0,8	1,6	☒	☒	☒							☒	☒	☒				
 LDMT08T204R-D51	M	2	6,1	8,88	2,58	15°	0,4	0,8	☒	☒	☒	☒	☒	☒				☒	☒	☒				☒
LDMT14T308R-D51	M	2	9,68	14,1	4,08	15°	0,8	1,2	☒	☒	☒	☒	☒	☒				☒	☒	☒				☒
LDMT170408R-D51	M	2	11,78	17,24	4,92	15°	0,8	1,6	☒	☒	☒	☒	☒	☒				☒	☒	☒				☒
 LDMT08T204R-D57	M	2	6,1	8,88	2,58	15°	0,4	0,8	☒	☒	☒	☒	☒	☒				☒	☒	☒				☒
LDMT14T308R-D57	M	2	9,68	14,1	4,08	15°	0,8	1,2	☒	☒	☒	☒	☒	☒				☒	☒	☒				☒
LDMT170408R-D57	M	2	11,78	17,24	4,92	15°	0,8	1,6	☒	☒	☒	☒	☒	☒				☒	☒	☒				☒

HC = Coated carbide

/ ★ New addition to the product range

**Positive rhombic
LDMW / LDMT
Tiger-tec® Gold**

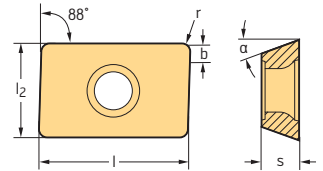


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	b mm	P				M		K			S		
									HC				HC		HC			HC		
									WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S
LDMT08T204R-F57	M	2	6,1	8,88	2,58	15°	0,4	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LDMT14T308R-F57	M	2	9,68	14,1	4,08	15°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LDMT170408R-F57	M	2	11,78	17,24	4,92	15°	0,8	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉

HC = Coated carbide

**Positive rhombic
LPGW / LPGT / LPMW / LPMT
Tiger-tec® Silver**



Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	b mm	P				M		K			S	
									HC				HC		HC			HC	
									WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WSM35S	WSP45S	
LPGW070304R-A57	G	2	6,35	7,94	3,18	11°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPGW15T308R-A57	G	2	9,52	15	3,97	11°	0,8	1,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPGW150412R-A57	G	2	12,7	15,88	4,76	11°	1,2	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPGT070304R-F55	G	2	6,35	7,94	3,18	11°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPGT15T308R-F55	G	2	9,52	15	3,97	11°	0,8	1,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPGT150412R-F55	G	2	12,7	15,88	4,76	11°	1,2	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPGT1506PPR-F57	G	2	12,7	15,88	6,35	11°	1,2	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPMW15T308TR-A27	M	2	9,52	15	3,97	11°	0,8		☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPMW150412TR-A27	M	2	12,7	15,88	4,76	11°	1,2		☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPMW150612TR-A27	M	2	12,7	15,88	6,35	11°	1,2		☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPMT070304R-D51	M	2	6,35	7,94	3,18	11°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPMT15T308R-D51	M	2	9,52	15	3,97	11°	0,8	1,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPMT150412R-D51	M	2	12,7	15,88	4,76	11°	1,2	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LPMT150612R-D51	M	2	12,7	15,88	6,35	11°	1,2		☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉

HC = Coated carbide

WALTER SELECT

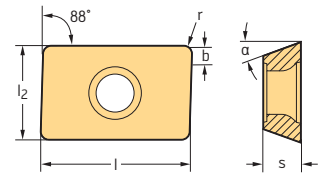
Optimum indexable insert for

☉ Good ☉ Average ☉ Poor


machining conditions

Positive rhombic LPGW / LPGT / LPMW / LPMT

Tiger-tec® Silver



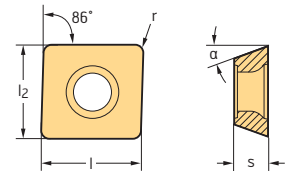
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	b mm	P			M		K		S			
									HC			HC		HC		HC			
									WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WSM35S	WSP45S	
 LPMT150612R-D57	M	2	12,7	15,88	6,35	11°	1,2		☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	










HC = Coated carbide

Positive rhombic MPHX / MPHW / MPHT / MPMX / MPMT

Tiger-tec® Gold



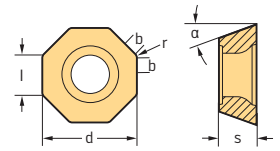
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	P			M		K		N	S					
								HC			HC		HC		HC	HC					
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35G	WKP35S	WXN15	WSM35S	WSP45S	
 MPHX060304-A57	H	2	6,35	6,35	3,18	11°	0,4	☉	☉	☉				☉	☉	☉	☉				
 MPHX080305-A57	H	2	8,3	8,3	3,18	11°	0,5	☉	☉	☉				☉	☉	☉	☉				
 MPHW120408-A57	H	2	12,7	12,7	4,76	11°	0,8	☉	☉	☉				☉	☉	☉	☉				
 MPHX060304-G88	H	2	6,35	6,35	3,18	11°	0,4											☉			
 MPHX080305-G88	H	2	8,3	8,3	3,18	11°	0,5											☉			
 MPHT120408-G88	H	2	12,7	12,7	4,76	11°	0,8											☉			
 MPMX060304-F57	M	2	6,35	6,35	3,18	11°	0,4	☉	☉		☉				☉	☉					☉
 MPMX080305-F57	M	2	8,3	8,3	3,18	11°	0,5	☉	☉		☉				☉	☉					☉
 MPMT120408-F57	M	2	12,7	12,7	4,76	11°	0,8	☉	☉	☉	☉				☉	☉					☉

HC = Coated carbide

**Positive octagonal
ODHW / ODHT / ODMT / ODMW**

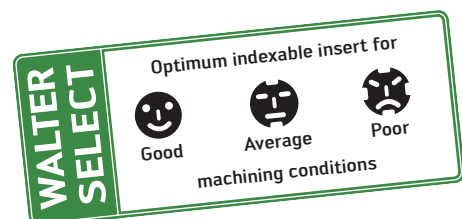
Tiger-tec® Gold



Indexable inserts

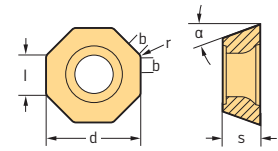
Designation	Tolerance class	Number of cutting edges	l mm	d mm	s mm	α	r mm	b mm	P				M			K				N			S		
									WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSN10	WXN15	WK10	WSM35S	WSM45X
ODHW050408-A57	H	8	5,26	12,7	4,76	15°	0,8																		
	H	8	6,58	15,88	5,56	15°	1,2																		
ODHW050412-A57	H	8	5,26	12,7	4,76	15°	1,2																		
	H	8	6,58	15,88	5,56	15°	1,6																		
ODHT050408-F57	H	8	5,26	12,7	4,76	15°	0,8																		
	H	8	6,58	15,88	5,56	15°	1,2																		
ODHW0504ZZN-A57	H	8	5,26	12,7	4,76	15°	0,8	1,2																	
	H	8	6,58	15,88	5,56	15°	0,8	1,6																	
ODHT0504ZZN-F57	H	8	5,26	12,7	4,76	15°	0,8	1,2																	
	H	8	6,58	15,88	5,56	15°	0,8	1,6																	
ODHT0605ZZN-G77	H	8	6,58	15,88	5,56	15°	0,8	1,6																	
	H	8	5,26	12,7	4,76	15°	0,8	1,6																	
ODHT0605ZZN-G88	H	8	6,58	15,88	5,56	15°	0,8	1,6																	
	H	8	5,26	12,7	4,76	15°	0,8	1,2																	
ODMT050408-D57	M	8	5,26	12,7	4,76	15°	0,8																		
	M	8	6,58	15,88	5,56	15°	1,2																		
ODMT0504ZZN-D57	M	8	5,26	12,7	4,76	15°	0,8	1,2																	
	M	8	6,58	15,88	5,56	15°	0,8	1,6																	

HC = Coated carbide
CN = Silicon nitride Si₃N₄
HW = Uncoated carbide



Positive octagonal ODHW / ODHT / ODMT / ODMW

Tiger-tec® Gold
Tiger-tec® Silver



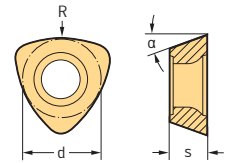
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	d mm	s mm	α	r mm	b mm	P				M			K				N			S		
									HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC		
 ODMW050408T-A27 ODMW060508T-A27	M	8	5,26	12,7	4,76	15°	0,8																		
	M	8	6,58	15,88	5,56	15°	0,8																		
 ODMW050408-A57 ODMW060508-A57	M	8	5,26	12,7	4,76	15°	0,8																		
	M	8	6,58	15,88	5,56	15°	0,8																		

HC = Coated carbide
CN = Silicon nitride Si₃N₄
HW = Uncoated carbide

Positive triangular P26315 / P26325

Tiger-tec® Silver



Indexable inserts

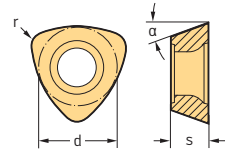
Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	R mm	P			M		K		S	
							HC	HC	HC	HC	HC	HC	HC	HC	
 P26315R10 P26315R12 P26315R15 P26315R16 P26315R20 P26315R25 P26315R31	M	3	6,75	2,78	14°	10									
	M	3	8,5	3,18	14°	12,5									
	M	3	10,5	3,97	14°	15									
	M	3	10,5	3,97	14°	16									
	M	3	12,5	4,76	11°	20									
	M	3	12,7	4,76	11°	25									
	M	3	12,7	4,76	11°	31,5									
 P26315R09.52 P26315R12.7 P26315R15.87 P26315R19.05 P26315R25.4	M	3	6,75	2,78	14°	9,5									
	M	3	8,5	3,18	14°	12,7									
	M	3	10,5	3,97	14°	15,9									
	M	3	12,5	4,76	11°	19,1									
	M	3	12,7	4,76	11°	25,4									
 P26325R31	M	3	13,52	5,59	14°	31,5									

HC = Coated carbide




/ ★ New addition to the product range

Positive triangular
P26335 / P26337 / P26339

Tiger-tec® Gold
Tiger-tec® Silver



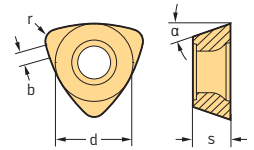
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	r mm	P			M			K			S	
							HC			HC			HC			HC	
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S	WSP45S
 P26335R10 P26335R14 P26335R25	M	3	6,75	3,18	14°	0,8	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	M	3	9,52	3,97	14°	1,2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	M	3	13	5,56	14°	2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
 P26337R10 P26337R14 P26337R25	M	3	6,75	3,18	14°	0,8	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	M	3	9,52	3,97	14°	1,2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	M	3	13	5,56	14°	2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
 P26339R10 P26339R14 P26339R25	M	3	6,75	3,18	14°	0,8	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	M	3	9,52	3,97	14°	1,2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	M	3	13	5,56	14°	2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗


HC = Coated carbide

Positive triangular
P26379

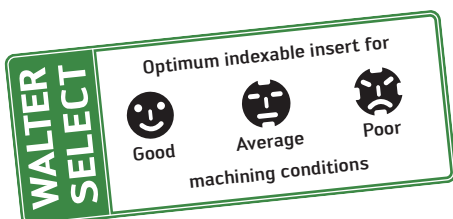
Tiger-tec® Gold
Tiger-tec® Silver



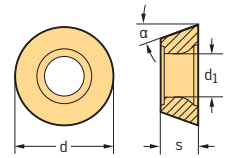
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	r mm	b mm	P			M			K			S	
								HC			HC			HC			HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S	WSP45S
 P26379-R10 P26379-R14 P26379-R25	M	3	6,75	3,18	14°	0,8	0,9	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	M	3	9,52	3,97	14°	1,2	1	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	M	3	13	5,56	14°	2	1,1	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗

HC = Coated carbide



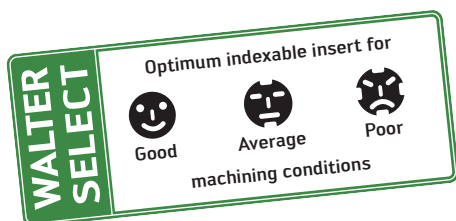
**Positive round
ROHX / ROMX
Tiger-tec® Gold**



Indexable inserts

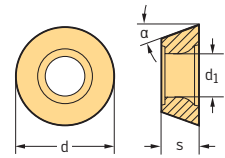
Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	d ₁ mm	P					M				K			S				
							HC					HC				HC			HC				
							WKP25S	WKP35G	WKP35S	WMP45G	WSP45S	WMP45G	WSM35S	WSM45X	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S		
ROHX10T3M0T-A27	H	4	10	3,97	11°	4,4	✓	✓	✓								✓	✓	✓				
ROHX1204M0T-A27	H	4	12	4,76	11°	4,4	✓	✓	✓									✓	✓	✓			
ROHX1605M0T-A27	H	6	16	5,56	15°	5,5	✓	✓	✓									✓	✓	✓			
ROHX2006M0T-A27	H	8	20	6,35	15°	6,5	✓	✓	✓									✓	✓	✓			
ROHX0803M0-D57	H	4	8	3,18	11°	3,4	✓	✓	✓	✓	✓							✓	✓	✓			✓
ROHX10T3M0-D57	H	4	10	3,97	11°	4,4	✓	✓	✓	✗	✗	✓	✓					✓	✓	✓			✓
ROHX1204M0-D57	H	4	12	4,76	11°	4,4	✓	✓	✓	✗	✗	✓	✓					✓	✓	✓			✓
ROHX1605M0-D57	H	6	16	5,56	15°	5,5	✓	✓	✓	✓	✓							✓	✓	✓			✓
ROHX2006M0-D57	H	8	20	6,35	15°	6,5	✓	✓	✓	✓	✓							✓	✓	✓			✓
ROHX0803M0-D67	H	4	8	3,18	11°	3,4				✓	✓												✓
ROHX10T3M0-D67	H	4	10	3,97	11°	4,4				✗	✗	✓	✓										✓
ROHX1204M0-D67	H	4	12	4,76	11°	4,4				✗	✗	✓	✓										✓
ROHX1605M0-D67	H	6	16	5,56	15°	5,5				✓	✓												✓
ROHX10T3M0-F67	H	4	10	3,97	11°	4,4	✓	✓	✓	✗	✗	✓	✓					✓	✓	✓			✓
ROHX1204M0-F67	H	4	12	4,76	11°	4,4	✓	✓	✓	✗	✗	✓	✓					✓	✓	✓			✓
ROMX0803M0-D57	M	4	8	3,18	11°	3,4	✓	✓		✓			✓	✓				✓	✓	✓			✓
ROMX10T3M0-D57	M	4	10	3,97	11°	4,4	✓	✓		✓			✓	✓				✓	✓	✓			✓
ROMX1204M0-D57	M	4	12	4,76	11°	4,4	✓	✓		✓			✓	✓				✓	✓	✓			✓
ROMX1605M0-D57	M	6	16	5,56	15°	5,5	✓	✓		✓			✓	✓				✓	✓	✓			✓
ROMX2006M0-D57	M	8	20	6,35	15°	6,5	✓	✓		✓			✓	✓				✓	✓	✓			✓
ROMX10T3M0-D67	M	4	10	3,97	11°	4,4				✓			✓	✓									✓
ROMX1204M0-D67	M	4	12	4,76	11°	4,4				✓			✓	✓									✓
ROMX10T3M0-F67	M	4	10	3,97	11°	4,4				✓			✓	✓									✓
ROMX1204M0-F67	M	4	12	4,76	11°	4,4				✓			✓	✓									✓

HC = Coated carbide



Positive round RDGT / RDHW / RDMW / RDMT

Tiger-tec® Gold

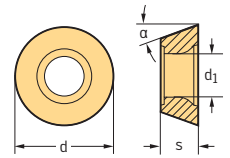


Indexable inserts





Designation	Tolerance class	d mm	s mm	a	d ₁ mm	P				M		K			N		S		H	O
						HC				HC		HC			HC	HW	HC		HC	HF
						WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S	WHH15
	RDGT0803M0-G85	G	8	3,18	15°	3,4														☺
	RDGT10T3M0-G85	G	10	3,97	15°	4,4														☺
	RDGT1204M0-G85	G	12	4,76	15°	4,4														☺
	RDGT1605M0-G85	G	16	5,56	15°	5,5														☺
	RDGT2006M0-G85	G	20	6,35	15°	6,5														☺
	RDGT0803M0-G88	G	8	3,18	15°	3,4							☺	☺						
	RDGT10T3M0-G88	G	10	3,97	15°	4,4							☺	☺						
	RDGT1204M0-G88	G	12	4,76	15°	4,4							☺	☺						
	RDGT1605M0-G88	G	16	5,56	15°	5,5							☺	☺						
	RDGT2006M0-G88	G	20	6,35	15°	6,5							☺	☺						
	RDHW0803M0-A27	H	8	3,18	15°	3,4	☺	☺	☺			☺	☺	☺						
	RDHW10T3M0-A27	H	10	3,97	15°	4,4	☺	☺	☺			☺	☺	☺						
	RDHW1204M0-A27	H	12	4,76	15°	4,4	☺	☺	☺			☺	☺	☺						
	RDHW1605M0-A27	H	16	5,56	15°	5,5	☺	☺	☺			☺	☺	☺						
	RDHW2006M0-A27	H	20	6,35	15°	6,5	☺	☺	☺			☺	☺	☺						
	RDHW0803M0-A57	H	8	3,18	15°	3,4	☺				☺	☺								☺
	RDHW10T3M0-A57	H	10	3,97	15°	4,4	☺				☺	☺								☺
	RDHW1204M0-A57	H	12	4,76	15°	4,4	☺				☺	☺								☺
	RDHW1605M0-A57	H	16	5,56	15°	5,5	☺				☺	☺								☺
	RDHW2006M0-A57	H	20	6,35	15°	6,5	☺				☺	☺								☺
	RDMW0803M0-A27	M	8	3,18	15°	3,4	☺	☺	☺			☺	☺	☺						
	RDMW10T3M0-A27	M	10	3,97	15°	4,4	☺	☺	☺			☺	☺	☺						
	RDMW1204M0-A27	M	12	4,76	15°	4,4	☺	☺	☺			☺	☺	☺						
	RDMW1605M0-A27	M	16	5,56	15°	5,5	☺	☺	☺			☺	☺	☺						
	RDMW2006M0-A27	M	20	6,35	15°	6,5	☺	☺	☺			☺	☺	☺						
	RDMT0803M0-D57	M	8	3,18	15°	3,4	☺	☺	☺	☺	☺	☺	☺			☺	☺			
	RDMT10T3M0-D57	M	10	3,97	15°	4,4	☺	☺	☺	☺	☺	☺	☺			☺	☺			
	RDMT1204M0-D57	M	12	4,76	15°	4,4	☺	☺	☺	☺	☺	☺	☺			☺	☺			
	RDMT1605M0-D57	M	16	5,56	15°	5,5	☺	☺	☺	☺	☺	☺	☺			☺	☺			
	RDMT2006M0-D57	M	20	6,35	15°	6,5	☺	☺	☺	☺	☺	☺	☺			☺	☺			

HC = Coated carbide
 HW = Uncoated carbide
 HF = Uncoated fine-grained carbide

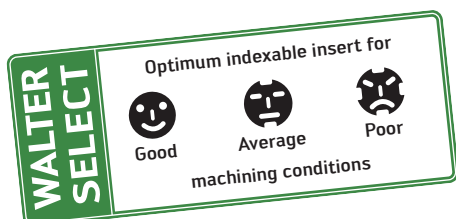
Positive round
RDGX / RDHX / RDMX
Tiger-tec® Gold



Indexable inserts

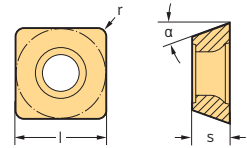
Designation	Tolerance class	d mm	s mm	α	d ₁ mm	P			M		K			S		H	O	
						HC			HC		HC			HC		HC	HF	
						WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S	WSP45S	WHH15	WMG40
 RDGX12T3M0-G85	G	12	3,97	15°	4,4													☺
 RDHX1003M0T-A27	H	10	3,18	15°	4,4	☺	☺	☺			☺	☺	☺					
RDHX12T3M0T-A27	H	12	3,97	15°	4,4	☺	☺	☺			☺	☺	☺					
RDHX1604M0T-A27	H	16	4,76	15°	5,5	☺	☺	☺			☺	☺	☺					
RDHX2006M0T-A27	H	20	6,35	15°	5,5			☺				☺						
 RDHX0501M0-A57	H	5	1,59	15°	2,2	☺					☺							☺
RDHX07T1M0-A57	H	7	1,98	15°	2,8	☺					☺							☺
RDHX0702M0-A57	H	7	1,59	15°	2,8													☺
RDHX1003M0-A57	H	10	3,18	15°	4,4	☺					☺							☺
RDHX12T3M0-A57	H	12	3,97	15°	4,4	☺					☺							☺
RDHX1604M0-A57	H	16	4,76	15°	5,5	☺					☺							☺
 RDMX1003M0T-A27	M	10	3,18	15°	4,4	☺	☺	☺			☺	☺	☺					
RDMX12T3M0T-A27	M	12	3,97	15°	4,4	☺	☺	☺			☺	☺	☺					
RDMX1604M0T-A27	M	16	4,76	15°	5,5	☺	☺	☺			☺	☺	☺					

HC = Coated carbide
 HF = Uncoated fine-grained carbide



Positive square SDHT / SDMW / SDMT

Tiger-tec® Gold

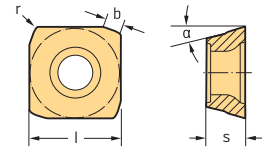


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	P				M			K				N		S		
							HC				HC			HC				HC	HW	HC		
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X
SDHT06T204-G88	H	4	6,35	2,78	15°	0,4												☺	☺			
SDHT09T304-G88	H	4	9,52	3,97	15°	0,4												☺	☺			
SDHT09T308-G88	H	4	9,52	3,97	15°	0,8												☺	☺			
SDHT120408-G88	H	4	12,7	4,76	15°	0,8												☺	☺			
SDMW06T204-A57	M	4	6,35	2,78	15°	0,4	☺	☺	☺						☺	☺	☺					
SDMW09T308-A57	M	4	9,52	3,97	15°	0,8	☺	☺	☺						☺	☺	☺					
SDMW09T320-A57	M	4	9,52	3,97	15°	2	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMW120408-A57	M	4	12,7	4,76	15°	0,8	☺	☺	☺						☺	☺	☺				☺	☺
SDMW120425-A57	M	4	12,7	4,76	15°	2,5	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT06T204-D51	M	4	6,35	2,78	15°	0,4	☺	☺	☺	☺					☺	☺	☺					☺
SDMT09T308-D51	M	4	9,52	3,97	15°	0,8	☺	☺	☺	☺					☺	☺	☺					☺
SDMT120408-D51	M	4	12,7	4,76	15°	0,8	☺	☺	☺	☺					☺	☺	☺					☺
SDMT06T204-D57	M	4	6,35	2,78	15°	0,4	☺	☺	☺	☺	☺				☺	☺	☺				☺	☺
SDMT09T308-D57	M	4	9,52	3,97	15°	0,8	☺	☺	☺	☺	☺				☺	☺	☺				☺	☺
SDMT120408-D57	M	4	12,7	4,76	15°	0,8	☺	☺	☺	☺	☺				☺	☺	☺				☺	☺
SDMT06T204-F57	M	4	6,35	2,78	15°	0,4	☺	☺	☺	☺	☺	☺	☺		☺	☺	☺				☺	☺
SDMT06T208-F57	M	4	6,35	2,78	15°	0,8		☺	☺	☺					☺	☺	☺					☺
SDMT06T212-F57	M	4	6,35	2,78	15°	1,2		☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT09T304-F57	M	4	9,52	3,97	15°	0,4		☺	☺	☺					☺	☺	☺					☺
SDMT09T308-F57	M	4	9,52	3,97	15°	0,8	☺	☺	☺	☺	☺	☺	☺		☺	☺	☺				☺	☺
SDMT09T312-F57	M	4	9,52	3,97	15°	1,2		☺	☺	☺					☺	☺	☺					☺
SDMT09T316-F57	M	4	9,52	3,97	15°	1,6		☺	☺	☺					☺	☺	☺					☺
SDMT09T320-F57	M	4	9,52	3,97	15°	2		☺	☺	☺	☺	☺	☺		☺	☺	☺				☺	☺
SDMT120408-F57	M	4	12,7	4,76	15°	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺	☺
SDMT120412-F57	M	4	12,7	4,76	15°	1,2		☺	☺	☺					☺	☺	☺					☺
SDMT120416-F57	M	4	12,7	4,76	15°	1,6		☺	☺	☺					☺	☺	☺					☺
SDMT120420-F57	M	4	12,7	4,76	15°	2		☺	☺	☺					☺	☺	☺					☺
SDMT120425-F57	M	4	12,7	4,76	15°	2,5		☺	☺	☺	☺	☺	☺		☺	☺	☺				☺	☺

HC = Coated carbide
HW = Uncoated carbide

**Positive square
SDMT
Tiger-tec® Gold**

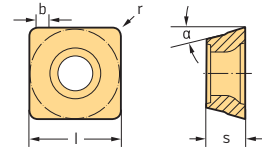


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P				M		K			S	
								HC				HC		HC			HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S	WSP45S
SDMT06T2ZDR-D57	M	4	6,4	2,78	15°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
SDMT09T3ZDR-D57	M	4	9,5	3,97	15°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
SDMT1204ZDR-D57	M	4	12,7	4,76	15°	0,8	1,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉

HC = Coated carbide

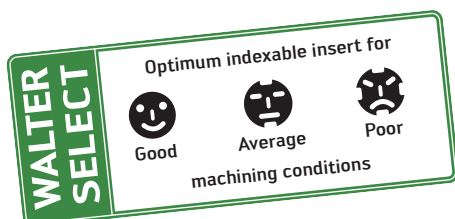
**Positive square
SDGT
Tiger-tec® Gold**



Indexable inserts

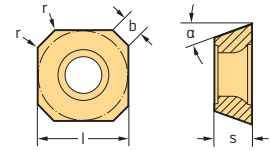
Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P				M		K			S	
								HC				HC		HC			HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S	WSP45S
SDGT06T2PDR-D57	G	4	6,4	2,78	15°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
SDGT09T3PDR-D57	G	4	9,5	3,97	15°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
SDGT1204PDR-D57	G	4	12,7	4,76	15°	0,8	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉

HC = Coated carbide









Positive square SDMW / SDMT / SDGT / SDHT

Tiger-tec® Gold

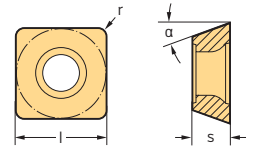


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P				M			K				N		S				
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	
 SDMW09T3AZN-A57	M	4	9,5	3,97	15°	0,3	1,2	☉	☉					☉		☉	☉								
SDMW1204AZN-A57	M	4	12,7	4,76	15°	0,3	1,4	☉	☉					☉		☉	☉								
 SDMT09T3AZN-D57	M	4	9,5	3,97	15°	0,3	1,2	☉	☉	☉	☉	☉		☉		☉	☉						☉	☉	
SDMT1204AZN-D57	M	4	12,7	4,76	15°	0,3	1,4	☉	☉	☉	☉	☉		☉		☉	☉						☉	☉	
 SDMT09T3AZN-F57	M	4	9,5	3,97	15°	0,3	1,4	☉	☉	☉	☉	☉		☉		☉	☉						☉	☉	
SDMT1204AZN-F57	M	4	12,7	4,76	15°	0,3	1,8	☉	☉	☉	☉	☉		☉		☉	☉						☉	☉	
 SDGT09T3AZN-F57	G	4	9,5	3,97	15°	0,3	1,4	☉	☉	☉	☉	☉	☉	☉		☉	☉						☉	☉	
SDGT1204AZN-F57	G	4	12,7	4,76	15°	0,3	1,8	☉	☉	☉	☉	☉	☉	☉		☉	☉						☉	☉	
 SDGT09T3AZN-G77	G	4	9,5	3,97	15°	0,3	1,2						☉											☉	
SDGT1204AZN-G77	G	4	12,7	4,76	15°	0,3	1,4						☉											☉	
 SDHT09T3AZN-G88	H	4	9,5	3,97	15°	0,3	1,2															☉	☉		
SDHT1204AZN-G88	H	4	12,7	4,76	15°	0,3	1,4															☉	☉		

HC = Coated carbide
HW = Uncoated carbide

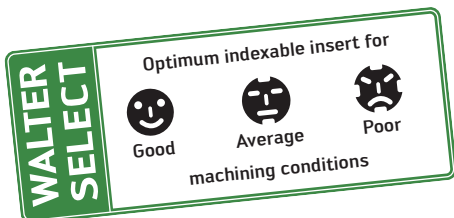
Positive square
SPGT / SPHW / SPHT / SPMW / SPMT
Tiger-tec® Gold



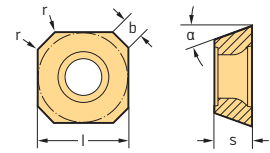
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	P				M		K			N		S		
							HC				HC		HC			CN	HC	HW	HC	
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35G	WKP35S	WSN10	WXN15	WK10	WSM35S
SPGT120606-F57	G	4	12,7	6,35	15°	0,6		☒	☒	☒	☒							☒	☒	
SPHW120412-A57	H	4	12,7	4,76	15°	1,2										☒				
SPHW120416-A57	H	4	12,7	4,76	15°	1,6									☒					
SPHW120606-A57	H	4	12,7	6,35	15°	0,6						☒								
SPHT060304-G88	H	4	6,35	3,18	15°	0,4										☒	☒			
SPHT09T308-G88	H	4	9,52	3,97	15°	0,8										☒	☒			
SPHT120408-G88	H	4	12,7	4,76	15°	0,8										☒	☒			
SPMW060304T-A27	M	4	6,35	3,18	15°	0,4	☒	☒				☒	☒							
SPMW09T308T-A27	M	4	9,52	3,97	15°	0,8	☒	☒				☒	☒							
SPMW120408T-A27	M	4	12,7	4,76	15°	0,8	☒	☒				☒	☒							
SPMW120606T-A27	M	4	12,7	6,35	15°	0,6	☒	☒				☒	☒							
SPMW060304-A57	M	4	6,35	3,18	15°	0,4	☒	☒				☒	☒							
SPMW09T308-A57	M	4	9,52	3,97	15°	0,8	☒	☒				☒	☒							
SPMW120408-A57	M	4	12,7	4,76	15°	0,8	☒	☒				☒	☒							
SPMT060304-D51	M	4	6,35	3,18	15°	0,4	☒	☒	☒	☒		☒	☒					☒	☒	
SPMT09T308-D51	M	4	9,52	3,97	15°	0,8	☒	☒	☒	☒		☒	☒					☒	☒	
SPMT120408-D51	M	4	12,7	4,76	15°	0,8	☒	☒	☒	☒		☒	☒					☒	☒	
SPMT120606-D51	M	4	12,7	6,35	15°	0,6	☒	☒	☒	☒		☒	☒					☒	☒	
SPMT120606-D57	M	4	12,7	6,35	15°	0,6	☒	☒	☒	☒		☒	☒					☒	☒	
SPMT060304-F55	M	4	6,35	3,18	15°	0,4	☒	☒	☒	☒		☒	☒					☒	☒	
SPMT09T308-F55	M	4	9,52	3,97	15°	0,8	☒	☒	☒	☒		☒	☒					☒	☒	
SPMT120408-F55	M	4	12,7	4,76	15°	0,8	☒	☒	☒	☒		☒	☒					☒	☒	













HC = Coated carbide
 CN = Silicon nitride Si₃N₄
 HW = Uncoated carbide



Positive square
 SPGT / SPKT / SPMW / SPMT / SDGT / SDHW / SDMW / SEHW
 Tiger-tec® Silver



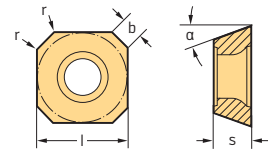
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P		M		K		N		S			
								HC		HC		HC		HC	HW	HC			
								WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S
 SPGT1204AEN-K88	G	4	12,7	4,76	11°		1,5												
 SPKT1204AZN	K	4	12,7	4,76	11°		1,4	☉	☉	☉	☉	☉	☉				☉	☉	
 SPKT1504AZN	K	4	15,9	4,76	11°		1,7	☉				☉						☉	☉
 SPMW1204AEN-A57	M	4	12,7	4,76	11°	0,5	1,4	☉	☉			☉	☉	☉					
 SPMT1204AEN	M	4	12,7	4,76	11°	0,5	1,4	☉	☉	☉	☉	☉	☉					☉	☉
 SDGT09T3AEN-F57	G	4	9,5	3,97	15°	0,3	1,2	☉	☉	☉	☉	☉	☉					☉	☉
 SDGT09T3AEN-G88	G	4	9,5	3,97	15°	0,3	1,2											☉	☉
 SDHW09T3AEN-A57	H	4	9,5	3,97	15°	0,3	1,2	☉	☉			☉	☉	☉					
 SDMW09T3AEN-A57	M	4	9,5	3,97	15°	0,5	1,2	☉	☉			☉	☉	☉					
 SDMT09T3AEN-D57	M	4	9,5	3,97	15°	0,5	1,2		☉	☉	☉		☉					☉	☉
 SEHW1204AFN	H	4	12,7	4,76	20°	0,8	2	☉	☉			☉	☉	☉					
 SEHW1504AFN	H	4	15,9	4,76	20°	0,8	2,1	☉	☉			☉	☉	☉					



HC = Coated carbide
 HW = Uncoated carbide

☉ ☉ ☉ / ★ New addition to the product range

**Positive square
SEHT
Tiger-tec® Silver**

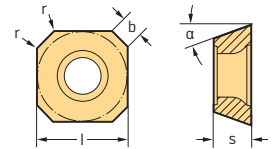


Indexable inserts




Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P		M		K		N		S	
								HC		HC		HC		HC	HW	HC	
								WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WXN15	WK10
 SEHT1204AFN	H	4	12,7	4,76	20°	0,8	2	☒	☒	☒	☒						
 SEHT1204AFN-K88	H	4	12,7	4,76	20°	0,8	1,8							☒			

HC = Coated carbide
HW = Uncoated carbide

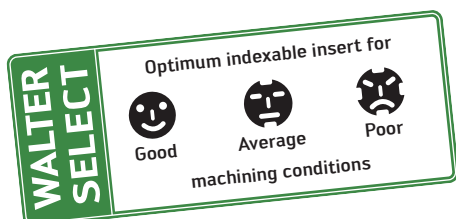
**Positive square
SPJW / SPGT
Tiger-tec® Silver**



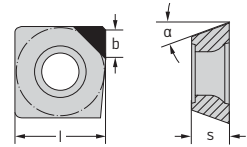
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P		M		K		S	
								HC		HC		HC		HC	
								WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S
 SPJW1204EDR	J	4	12,7	4,76	11°		1,4	☒	☒			☒	☒		
 SPJW1504EDR	J	4	15,9	4,76	11°		1,5	☒	☒			☒	☒		
 SPGT1204EDR-F55	G	4	12,7	4,76	11°	0,5	1,3	☒	☒	☒	☒	☒	☒	☒	☒



HC = Coated carbide



Positive square SPHW

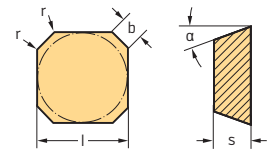


Indexable inserts






Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	b mm	P		M		K		N		S	
							HC	WKP255	HC	WSP455	HC	WKP255	DP	WCD10	HC	WSP455
 SPHW1204EDR-A88	H	1	12,7	4,76	11°	1,5							☺			
 SPHW1204PDR-A88	H	1	12,7	4,76	11°	1,5							☺			

HC = Coated carbide
DP = Polycrystalline diamond

Positive square SEKN / SEKR / SEMR Tiger-tec® Silver

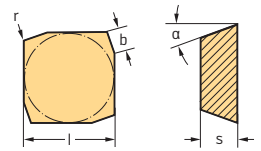


Indexable inserts






Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P		M		K		S	
								HC	WKP255	HC	WSP455	HC	WKP255	HC	WSP455
 SEKN1203AFN	K	4	12,7	3,18	20°	0,63	1,9	☺	☺			☺	☺		
 SEKN1504AFN	K	4	15,9	4,76	20°	0,35	2	☺	☺			☺	☺		
 SEKR1203AFTN	K	4	12,7	3,18	20°	0,43	1,9	☺	☺			☺	☺		
 SEKR1204AFN	K	4	12,7	4,76	20°	0,34	1,9	☺	☺			☺	☺		
 SEMR1203AFTN	M	4	12,7	3,18	20°	0,5	1,9	☺	☺			☺	☺		

HC = Coated carbide

Positive square SPFN / SPFR / SPKN / SPMN Tiger-tec® Silver

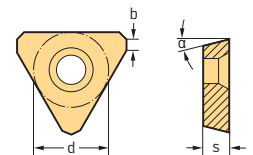


Indexable inserts



Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P			M		K			S	
								HC			HC		HC			HC	
								WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WSM35S	WSP45S
 SPFN1204EDN	F	4	12,7	4,76	11°	0,5	1,7	⊗	⊗				⊕	⊕	⊕		
SPFN1204ZPN	F	4	12,7	4,76	11°	0,8	1,7	⊗	⊗				⊕	⊕	⊕		
 SPFR1204EDR	F	4	12,7	4,76	11°	0,5	2	⊗	⊗				⊕	⊕	⊕		
 SPFR1204ZPR	F	4	12,7	4,76	11°	0,8	1,7	⊗	⊗				⊕	⊕	⊕		
SPFR1204ZPN	F	4	12,7	4,76	11°	0,8	1,7		⊗				⊕	⊕	⊕		
 SPKN1203EDR	K	4	12,7	3,18	11°		1,4	⊗	⊗				⊕	⊕	⊕		
SPKN1204EDR	K	4	12,7	4,76	11°		1,4	⊗	⊗				⊕	⊕	⊕		
SPKN1504EDR	K	4	15,9	4,76	11°		1,5		⊗				⊕	⊕	⊕		
 SPMN1203EDR	M	4	12,7	3,18	11°	0,2	1,4	⊗					⊕				

HC = Coated carbide

Positive triangular TPAW / TPJW Tiger-tec® Silver



Indexable inserts

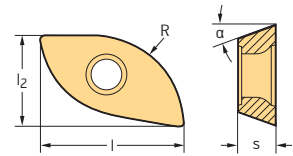
Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	b mm	P			M		K			S	
							HC			HC		HC			HC	
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WSM35S	WSP45S
 TPAW1604PPN	A	3	9,52	4,76	11°	1,2	⊗	⊗				⊕	⊕	⊕		
TPAW2204PPN	A	3	12,7	4,76	11°	1,2	⊗	⊗				⊕	⊕	⊕		
 TPJW1604PPN	J	3	9,52	4,76	11°	1,2	⊗	⊗				⊕	⊕	⊕		
TPJW2204PPN	J	3	12,7	4,76	11°	1,2	⊗	⊗				⊕	⊕	⊕		

HC = Coated carbide



C2

Positive form inserts XDGT / XDMT

Tiger-tec® Silver



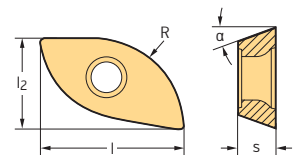
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	R mm	P		M		K		S		
								HC		HC		HC		HC		
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S
 XDGT1303080R-D57	G	2	8,5	13,12	3	15°	8									
XDGT16T3100R-D57	G	2	9	15,93	3,74	15°	10									
XDGT2004125R-D57	G	2	11,3	19,94	4,68	15°	12,5									
XDGT2405150R-D57	G	2	13,5	23,94	5,62	15°	15									
XDGT2506160R-D57	G	2	14,4	25,54	6	15°	16									
XDGT3207200R-D57	G	2	18	31,95	7,5	15°	20									
XDGT4009250R-D57	G	2	22,5	39,95	9,39	15°	25									
 XDGT1303079R-D57	G	2	8,5	13,12	3	15°	7,84									
XDGT16T3095R-D57	G	2	9	15,93	3,74	15°	9,53									
XDGT2004127R-D57	G	2	11,3	19,94	4,68	15°	12,7									
XDGT2506159R-D57	G	2	14,4	25,54	6	15°	15,88									
XDGT3207191R-D57	G	2	18	31,95	7,5	15°	19,05									
XDGT4009254R-D57	G	2	22,5	39,95	9,39	15°	25,4									



HC = Coated carbide

Positive form inserts XDGT / XDMT

Tiger-tec® Gold



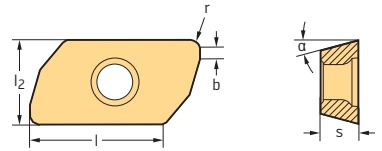
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	R mm	P		M		K		S		
								HC		HC		HC		HC		
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S
 XDMT1303080R-F55	M	2	8,5	13,12	3	15°	8									
XDMT16T3100R-F55	M	2	9	15,93	3,74	15°	10									
XDMT2004125R-F55	M	2	11,3	19,94	4,68	15°	12,5									
XDMT2405150R-F55	M	2	13,5	23,94	5,62	15°	15									
XDMT2506160R-F55	M	2	14,4	25,54	6	15°	16									
XDMT3207200R-F55	M	2	18	31,95	7,5	15°	20									
XDMT4009250R-F55	M	2	22,5	39,95	9,39	15°	25									
 XDMT1303079R-F55	M	2	8,5	13,12	3	15°	7,92									
XDMT16T3095R-F55	M	2	9	15,93	3,74	15°	9,53									
XDMT2004127R-F55	M	2	11,3	19,94	4,68	15°	12,7									
XDMT2506159R-F55	M	2	14,4	25,54	6	15°	15,88									
XDMT3207191R-F55	M	2	18	31,95	7,5	15°	19,05									
XDMT4009254R-F55	M	2	22,5	39,95	9,39	15°	25,4									

HC = Coated carbide

/ ★ New addition to the product range

Positive rhombic ZDGT



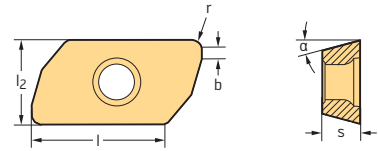
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	b mm	P			M		K		N			S		O		
									HC			HC		HC		HC	HW		HC		HF		
									WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35S	WXN15	WNN15	WK10	WSM35S	WSP45S	WMG40		
ZDGT150404R-K85	G	2	10,5	16,2	4,76	15°	0,4	1,2															
ZDGT150408R-K85	G	2	10,5	16,2	4,76	15°	0,8	1,2															
ZDGT150412R-K85	G	2	10,5	16,2	4,76	15°	1,2	1,2															
ZDGT150416R-K85	G	2	10,5	16,2	4,76	15°	1,6	1,2															
ZDGT150420R-K85	G	2	10,5	16,2	4,76	15°	2	1,2															
ZDGT150425R-K85	G	2	10,5	16,2	4,76	15°	2,5	1,2															
ZDGT150430R-K85	G	2	10,5	16,2	4,76	15°	3	1,2															
ZDGT150440R-K85	G	2	10,5	16,2	4,76	15°	4	1,2															
ZDGT200508R-K85	G	2	14	21,2	5,56	15°	0,8	1,2															
ZDGT200512R-K85	G	2	14	21,2	5,56	15°	1,2	1,2															
ZDGT200516R-K85	G	2	14	21,2	5,56	15°	1,6	1,2															
ZDGT200520R-K85	G	2	14	21,2	5,56	15°	2	1,2															
ZDGT200530R-K85	G	2	14	21,2	5,56	15°	3	1,2															
ZDGT200540R-K85	G	2	14	21,2	5,56	15°	4	1,2															
ZDGT200550R-K85	G	2	14	21,2	5,56	15°	5	1,2															
ZDGT200560R-K85	G	2	14	21,2	5,56	15°	6	1,2															
ZDGT200564R-K85	G	2	14	21,2	5,56	15°	6,4	1,2															

ZDGT1504 and ZDGT2005 can be used in the M2131 ramping milling cutter

HC = Coated carbide
 HW = Uncoated carbide
 HF = Uncoated fine-grained carbide

Positive rhombic ZDGT



Indexable inserts

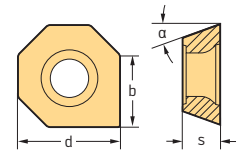
Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	b mm	P		M		K		S		O	
									HC		HC		HC		HC		HF	
									WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35S	WSM35S	WSP45S	WWMG40
ZDGT15A404R-K85	G	2	10,5	16,2	4,76	15°	0,4	1,2										★
ZDGT15A408R-K85	G	2	10,5	16,2	4,76	15°	0,8	1,2										★
ZDGT15A412R-K85	G	2	10,5	16,2	4,76	15°	1,2	1,2										★
ZDGT15A416R-K85	G	2	10,5	16,2	4,76	15°	1,6	1,2										★
ZDGT15A420R-K85	G	2	10,5	16,2	4,76	15°	2	1,2										★
ZDGT15A425R-K85	G	2	10,5	16,2	4,76	15°	2,5	1,2										★
ZDGT15A430R-K85	G	2	10,5	16,2	4,76	15°	3	1,2										★
ZDGT15A440R-K85	G	2	10,5	16,2	4,76	15°	4	1,2										★
ZDGT20A508R-K85	G	2	14	21,2	5,56	15°	0,8	1,2										★
ZDGT20A512R-K85	G	2	14	21,2	5,56	15°	1,2	1,2										★
ZDGT20A516R-K85	G	2	14	21,2	5,56	15°	1,6	1,2										★
ZDGT20A520R-K85	G	2	14	21,2	5,56	15°	2	1,2										★
ZDGT20A530R-K85	G	2	14	21,2	5,56	15°	3	1,2										★
ZDGT20A540R-K85	G	2	14	21,2	5,56	15°	4	1,2										★
ZDGT20A550R-K85	G	2	14	21,2	5,56	15°	5	1,2										★
ZDGT20A560R-K85	G	2	14	21,2	5,56	15°	6	1,2										★
ZDGT20A564R-K85	G	2	14	21,2	5,56	15°	6,4	1,2										★

ZDGT15A4 and ZDGT20A5 can be used in the M2131 and M2331 ramping milling cutters




HC = Coated carbide

HF = Uncoated fine-grained carbide

Finishing inserts ODHX Tiger-tec® Gold



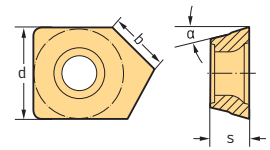
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	b mm	P			M		K			S		H	O
							HC			HC		HC			HC		HC	HC
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35G	WKP35S	WSM35S	WSP45S
 ODHX0504ZZR-A57 ODHX0605ZZR-A57	H	1	12,7	4,76	15°	7,2	☉	☉	☉			☉	☉	☉			☉	☉
	H	1	15,88	5,56	15°	9,4	☉	☉				☉	☉	☉			☉	☉
 ODHX0605ZZN-A57	H	8	15,88	5,56	15°	6						☉					☉	☉
 ODHX0605ZZN-A88	H	8	15,88	5,56	15°	6						☉					☉	☉


* ZZN for κ = 45° only

HC = Coated carbide

Positive square SDHX Tiger-tec®



Indexable inserts

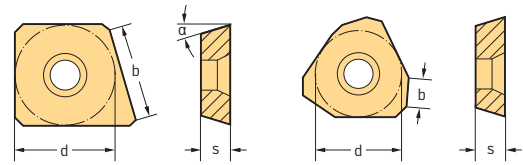
Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	b mm	P			M		K			S		H	O
							HC			HC		HC			HC		HC	HC
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WSM35S	WSP45S	WHH15	WXM15
 SDHX09T3AZR-A88	H	1	9,52	3,97	15°	5,6						☉					☉	☉
SDHX1204AZR-A88	H	1	12,7	4,76	15°	7,5						☉					☉	☉

HC = Coated carbide





Finishing inserts

P2901 / P2903 / P2905 / SPHX

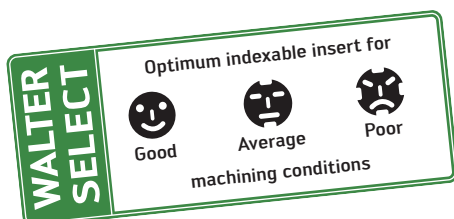
Tiger-tec®



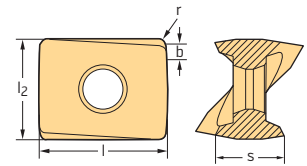
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	b mm	P		M		K		N		S		H		O	
							HC		HC		HC		HW DP		HC		HC		HC	
							WKP255	WKP355	WSP455	WSM355	WSP455	WAK15	WKP255	WKP355	WK10	WCD10	WSM355	WSP455	WHH15	WXM15
 P2901-1R	H	1	12,7	4,76	11°	11					☺						☺	☺		
 P2903-2R	A	3	9,52	4,76	11°	3,5					☺		☺				☺	☺		
 P2905-1	F	4	12,7	4,76	11°	10					☺		☺				☺	☺		
 SPHX1204PDR-A88	H	1	12,7	4,76	11°	3,5							☺							



HC = Coated carbide
 HW = Uncoated carbide
 DP = Polycrystalline diamond



Negative rhombic LNGX Tiger-tec® Gold

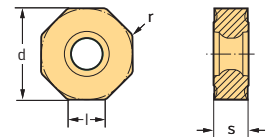


Indexable inserts




Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	b mm	P				M		K				N		S		
								HC				HC		HC				HC	HW	HC		
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S
 LNGX130708R-L55	G	4	11	13,7	7,74	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LNGX130712R-L55	G	4	11	13,7	7,74	1,2	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LNGX130716R-L55	G	4	11	13,7	7,74	1,6	0,9	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LNGX130720R-L55	G	4	11	13,7	7,74	2	0,7	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LNGX130725R-L55	G	4	11	13,7	7,74	2,5	0,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
LNGX130730R-L55	G	4	11	13,7	7,74	3	0,7	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
 LNGX130708R-L88	G	4	11	13,7	7,74	0,8	1,2											☉	☉			
LNGX130720R-L88	G	4	11	13,7	7,74	2	0,7											☉	☉			
LNGX130730R-L88	G	4	11	13,7	7,74	3	0,7											☉	☉			

HC = Coated carbide
HW = Uncoated carbide

Negative octagonal ONHU / ONMU Tiger-tec® Gold



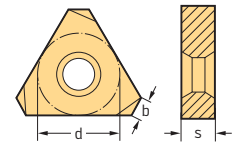
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	P				M		K				N		S			
							HC				HC		HC				HC	HW	HC			
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S	
 ONHU050408-F57	H	16	12,7	5,26	4,86	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
 ONHU050408-F67	H	16	12,7	5,26	4,86	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
 ONMU050408-D57	M	16	12,7	5,26	4,86	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉




HC = Coated carbide
HW = Uncoated carbide

Wendelnovex® inserts P2352 / P23522 / P2372

Tiger-tec® Silver



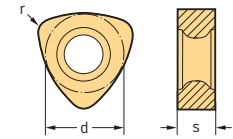
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	b mm	P			M		K			N		S	
						HC			HC		HC			HC	HW	HC	
						WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S
 P2352-1R	A	6	15	4,5	1,1	☉	☉					☉	☉				
P2352-2R	A	6	18	4,5	1,1		☉					☉					
 P23522-1R	A	6	15	4,5	1,1		☉					☉					
 P2372-1R	A	6	15	4,5	1,1		☉					☉					


HC = Coated carbide
HW = Uncoated carbide

Negative triangular P23696

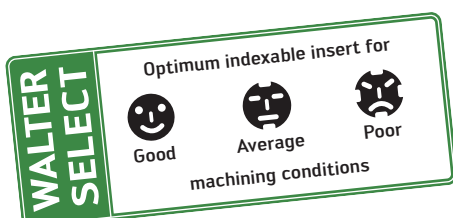
Tiger-tec® Gold



Indexable inserts

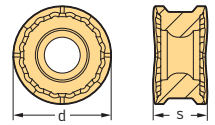
Designation	Tolerance class	Number of cutting edges	d mm	s mm	r mm	P			M		K			N		S	
						HC			HC		HC			HC	HW	HC	
						WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15
 P23696-1.0	M	6	9,52	5	1,2	☉	☉	☉	☉	☉							
P23696-2.0	M	6	13,5	7	1,6	☉	☉	☉	☉	☉							

HC = Coated carbide
HW = Uncoated carbide




Negative round RNMX

Tiger-tec® Silver



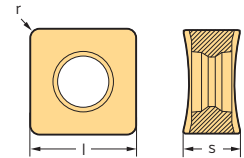
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	P		M		K			N		S	
					HC		HC		HC			HC	HW	HC	
					WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WKN15	WK10	WSM35S
 RNMX1206M0-D57	M	8	12	6,48			☒	☒							☒
 RNMX1206M0-F67	M	8	12	6,48			☒	☒							☒








HC = Coated carbide
HW = Uncoated carbide

Negative square SNGX / SNMX

Tiger-tec® Gold



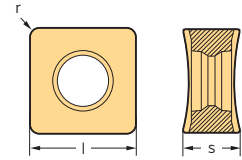
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	P		M		K			N		S	
						HC		HC		HC			HC	HW	HC	
						WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35G	WKP35S	WKN15
 SNGX120512-F57	G	8	12,7	6,4	1,2	☒	☒	☒	☒						☒	☒
 SNMX120512-D27	M	8	12,7	6,4	1,2	☒	☒	☒								
 SNMX120520-D27	M	8	12,7	6,4	2	☒	☒	☒								
 SNMX160620-D27	M	8	16	7,8	2	☒	☒	☒								
 SNMX160640-D27	M	8	16	7,8	4	☒	☒	☒								
 SNMX120512-F27	M	8	12,7	6,4	1,2	☒	☒	☒								
 SNMX160620-F27	M	8	16	7,8	2	☒	☒	☒								
SNMX160640-F27	M	8	16	7,8	4	☒	☒	☒								
SNMX120512-F57	M	8	12,7	6,4	1,2	☒	☒	☒	☒	☒	☒	☒			☒	☒
SNMX120520-F57	M	8	12,7	6,4	2	☒	☒	☒	☒	☒	☒	☒			☒	☒
SNMX160620-F57	M	8	16	7,8	2	☒	☒	☒	☒	☒	☒	☒			☒	☒
SNMX160640-F57	M	8	16	7,8	4	☒	☒	☒	☒	☒	☒	☒			☒	☒

HC = Coated carbide
HW = Uncoated carbide

☒ / ★ New addition to the product range

Negative square SNGX / SNMX Tiger-tec® Gold

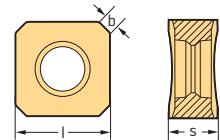


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	P				M		K				N		S	
						HC				HC		HC				HC	HW	HC	
						WKP255	WKP356	WKP355	WSP455	WSM355	WSP455	WAK15	WKK255	WKP255	WKP356	WKP355	WXN15	WK10	WSM355
SNMX120512-F67	M	8	12,7	6,4	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	

HC = Coated carbide
HW = Uncoated carbide

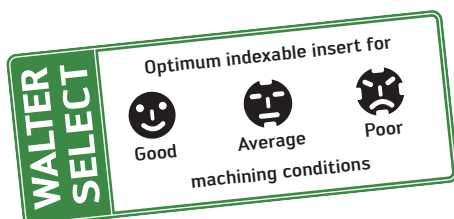
Negative square SNGX / SNHX Tiger-tec® Gold



Indexable inserts

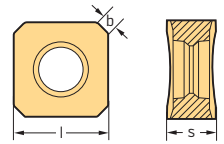
Designation	Number of cutting edges	l mm	s mm	b mm	P				M		K				N		S	
					HC				HC		HC				HC	HW	HC	
					WKP255	WKP356	WKP355	WSP455	WSM355	WSP455	WAK15	WKK255	WKP255	WKP356	WKP355	WXN15	WK10	WSM355
SNGX1205ANN-F27	8	12,7	6,4	1,5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
SNGX1205ANN-F57	8	12,7	6,4	1,5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
SNGX1606ANN-F57	8	16	7,7	1,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
SNGX1205ANN-F67	8	12,7	6,4	1,5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
SNHX1205ANN-K88	8	12,7	6,4	1,5									☺	☺				

HC = Coated carbide
HW = Uncoated carbide



Negative square SNMX

Tiger-tec® Gold



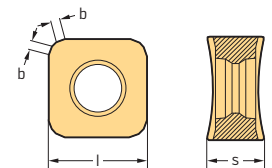
Indexable inserts

Designation	Number of cutting edges	l mm	s mm	b mm	P				M		K				N		S			
					HC				HC		HC				HC	HW	HC			
					WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S	
SNMX1205ANN-F27	8	12,7	6,4	1,5	☺	☺	☺						☺	☺	☺					
SNMX1205ANN-F57	8	12,7	6,4	1,5	☺	☺	☺					☺	☺	☺	☺					
SNMX1205ANN-F67	8	12,7	6,4	1,5	☺	☺	☺				☺	☺	☺	☺	☺					

HC = Coated carbide
HW = Uncoated carbide

Negative square SNGX

Tiger-tec® Gold

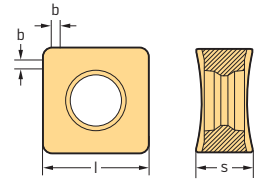


Indexable inserts

Designation	Number of cutting edges	l mm	s mm	b mm	P				M		K				N		S			
					HC				HC		HC				HC	HW	HC			
					WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S	
SNGX1205ENN-F27	8	12,7	6,4	1,2	☺	☺	☺						☺	☺	☺					
SNGX1205ENN-F57	8	12,7	6,4	1,2	☺	☺	☺	☺	☺	☺		☺	☺	☺	☺				☺	☺
SNGX1205ENN-F67	8	12,7	6,4	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺	☺

HC = Coated carbide
HW = Uncoated carbide

Negative square SNGX Tiger-tec® Gold

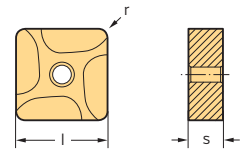


Indexable inserts

Designation	Number of cutting edges	l mm	s mm	b mm	P				M		K				N		S			
					HC				HC		HC				HC	HW	HC			
					WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S	
SNGX1205ZNN-F27	8	12,7	6,4	1,2	☺	☺	☺						☺	☺	☺					
SNGX1205ZNN-F57	8	12,7	6,4	1,2	☺	☺	☺	☺	☺	☺		☺	☺	☺	☺				☺	☺
SNGX1205ZNN-F67	8	12,7	6,4	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺	☺

HC = Coated carbide
HW = Uncoated carbide

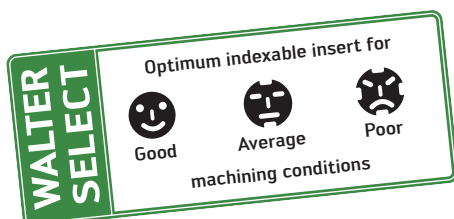
Negative square SNEF Tiger-tec® Gold



Indexable inserts

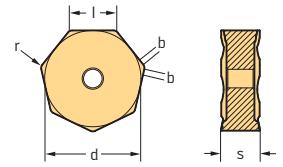
Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	b mm	P				M		K				N		S			
							HC				HC		HC				HC	HW	HC			
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S	
SNEF120408R-B67	E	8	12,7	4,76	0,8	2,1								☺	☺	☺	☺					
SNEF120408R-D67	E	8	12,7	4,76	0,8	2,1							☺	☺	☺	☺						

HC = Coated carbide
HW = Uncoated carbide



Negative heptagonal XNHF / XNMF

Tiger-tec® Gold



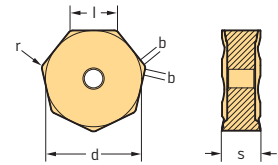
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	P				M		K				N		S	
							HC				HC		HC				HC	HW	HC	
							WKP255	WKP356	WKP355	WSP455	WSM355	WSP455	WAK15	WKK255	WKP255	WKP356	WKP355	WXN15	WK10	WSM355
XNHF070508-D27	H	14	14,5	7	5,8	0,8							☉	☉	☉	☉				
	XNHF090612-D27	H	14	19,05	9	6,35	1,2							☉	☉	☉	☉			
XNHF070508-D57	H	14	14,5	7	5,8	0,8							☉	☉	☉	☉				
	XNHF090612-D57	H	14	19,05	9	6,35	1,2							☉	☉	☉	☉			
XNHF070508-D67	H	14	14,5	7	5,8	0,8							☉	☉	☉	☉				
	XNHF090612-D67	H	14	19,05	9	6,35	1,2							☉	☉	☉	☉			
XNMF070508-D27	M	14	14,5	7	5,8	0,8							☉	☉	☉	☉				
	XNMF090612-D27	M	14	19,05	9	6,35	1,2							☉	☉	☉	☉			
XNMF070508-D57	M	14	14,5	7	5,8	0,8							☉	☉	☉	☉				
	XNMF090612-D57	M	14	19,05	9	6,35	1,2							☉	☉	☉	☉			
XNMF070508-F57	M	14	14,5	7	5,8	0,8							☉	☉	☉	☉				
	XNMF090612-F57	M	14	19,05	9	6,35	1,2							☉	☉	☉	☉			

HC = Coated carbide
HW = Uncoated carbide

Negative heptagonal XNHF

Tiger-tec® Gold



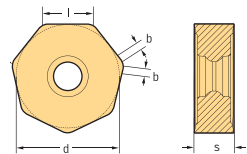
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	b mm	P				M		K				N		S		
								HC				HC		HC				HC	HW	HC		
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S
XNHF0705ANN-D27	H	14	14,5	7	5,8	0,8	1,1								☉	☉	☉	☉				
XNHF0906ANN-D27	H	14	19,05	9	6,35	0,8	1,4								☉	☉	☉	☉				
XNHF0705ANN-D57	H	14	14,5	7	5,8	0,8	1,1								☉	☉	☉	☉				
XNHF0906ANN-D57	H	14	19,05	9	6,35	0,8	1,4								☉	☉	☉	☉				
XNHF0705ANN-D67	H	14	14,5	7	5,8	0,8	1,1							☉	☉	☉	☉					
XNHF0906ANN-D67	H	14	19,05	9	6,35	0,8	1,4							☉	☉	☉	☉					

HC = Coated carbide
HW = Uncoated carbide

Negative heptagonal XNGU

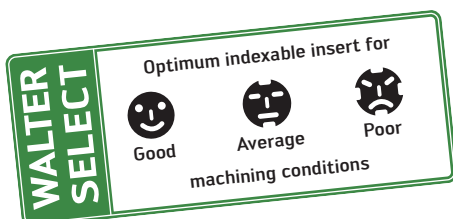
Tiger-tec® Gold



Indexable inserts

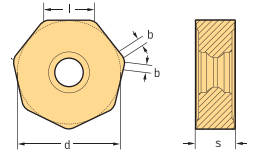
Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	b mm	P				M		K				N		S		
								HC				HC		HC				HC	HW	HC		
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
XNGU0705ANN-F57	G	14	14,5	6,98	4,6	0,8	1,1	☉	☉	☉	☉	☉	☉			☉	☉	☉				
XNGU0705ANN-F67	G	14	14,5	6,98	4,6	0,8	1,1	☉	☉	☉	☉	☉	☉			☉	☉	☉				

HC = Coated carbide
HW = Uncoated carbide






Negative heptagonal XNMU

Tiger-tec® Gold



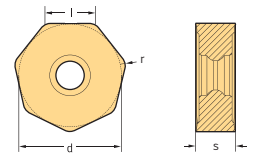
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	b mm	P				M			K				N		S				
								HC	HC	HC	HC	HC	HC	HC	HC	HC	HW	HC	HW	HC	HC	HC			
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	
 XNMU0705ANN-F27 XNMU0906ANN-F27	M	14	14,5	6,98	4,6	0,8	1,1	☺	☺	☺						☺	☺	☺	☺						
	M	14	19,05	9,18	5,88	0,8	1,4	☺	☺							☺	☺	☺	☺						
 XNMU0705ANN-F57 XNMU0906ANN-F57	M	14	14,5	6,98	4,6	0,8	1,1	☺	☺	☺	☺	☺	☺	☺		☺	☺	☺	☺				☺		
	M	14	19,05	9,18	5,88	0,8	1,4	☺	☺		☺	☺	☺	☺		☺	☺	☺	☺				☺	☺	
 XNMU0705ANN-F67 XNMU0906ANN-F67	M	14	14,5	6,98	4,6	0,8	1,1	☺	☺	☺		☺	☺	☺		☺	☺	☺	☺				☺	☺	
	M	14	19,05	9,18	5,88	0,8	1,4	☺	☺			☺	☺	☺		☺	☺	☺	☺				☺	☺	


HC = Coated carbide
HW = Uncoated carbide

Negative heptagonal XNMU

Tiger-tec® Gold

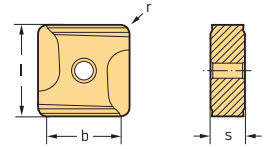


Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	P				M		K				N		S				
							HC	HC	HC	HC	HC	HC	HC	HC	HC	HW	HC	HW	HC	HC			
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S		
 XNMU070508-F57 XNMU090612-F57	M	14	14,5	6,98	4,6	0,8	☺	☺	☺	☺	☺	☺			☺	☺	☺	☺				☺	
	M	14	19,05	9,18	5,88	1,2	☺	☺	☺	☺	☺	☺			☺	☺	☺	☺					

HC = Coated carbide
HW = Uncoated carbide

Finishing inserts SNEF Tiger-tec®



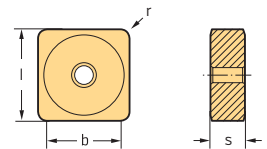
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	b mm	P			M		K			N		S		H
							WKP25S	WKP35S	WSP45S	WSP45S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S
SNEF1204PNR-B67	E	4	12,7	4,76	0,8	10,8													



HC = Coated carbide
HW = Uncoated carbide

Finishing inserts SNEF Tiger-tec®

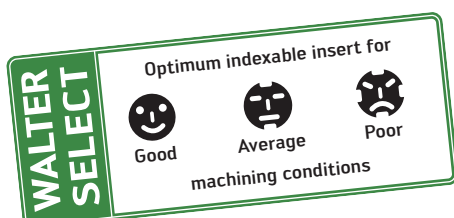


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	b mm	P			M		K			N		S		H
							WKP25S	WKP35S	WSP45S	WSP45S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S
SNEF1204PNN-A27	E	8	12,7	4,76	1,2	10,3													

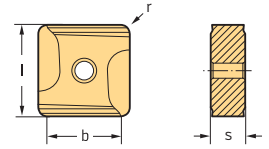


HC = Coated carbide
HW = Uncoated carbide



Finishing inserts SNEX

Tiger-tec®



Indexable inserts

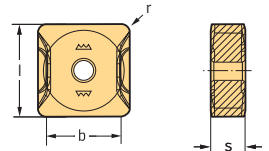
Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	b mm	P			M		K			N		S		H		
							HC	HC	HC	HC	HC	HC	HC	HW	HC	HC	HC				
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S	WHH15	
SNEX1204PNR-B67	E	4	12,7	4,76	0,8	10,8						⊕									⊕



HC = Coated carbide
HW = Uncoated carbide

Finishing inserts SNEX

Tiger-tec®



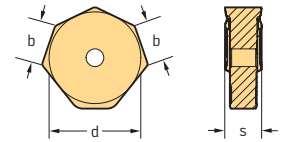
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	b mm	P			M		K			N		S		H		
							HC	HC	HC	HC	HC	HC	HC	HW	HC	HC	HC				
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S	WHH15	
SNEX1204PNN-A27	E	4	12,7	4,76	1,2	10,3						⊕									⊕



HC = Coated carbide
HW = Uncoated carbide

**Finishing inserts
XNHX
Tiger-tec®**



Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	b mm	P			M		K			N		S		H	
						WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S	WHH15
XNHX0906ANN-D67	H	4	19.05	4.2	7.5						☺								☺



HC = Coated carbide
HW = Uncoated carbide

C2

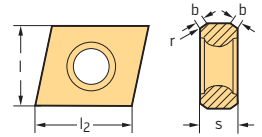
WALTER SELECT

Optimum indexable insert for




☺ Good ☹ Average ☹ Poor

machining conditions

Tangential rhombic CNHQ / CNHU / CNMU Tiger-tec® Silver



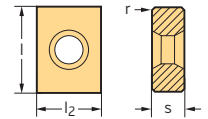
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	b mm	P		M		K			N		S	
								HC		HC		HC			HC	HW	HC	
								WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WXN15	WK10	WSM35S
 CNHQ0805PPN-A57T	H	2	9	8	5	0,8	1,2	⊗	⊗				⊗	⊗				
CNHQ1206PPN-A57T	H	2	13	12	6,5	0,8	1,5	⊗	⊗				⊗	⊗				
CNHQ1608PPN-A57T	H	2	15	16	8	1,2	1,8	⊗					⊗					
 CNHU0805PPN-D57T	H	2	9	8	5	0,8	1,2	⊗	⊗	⊗			⊗	⊗				⊗
CNHU1206PPN-D57T	H	2	13	12	6,5	0,8	1,5	⊗	⊗	⊗			⊗	⊗				⊗
CNHU1608PPN-D57T	H	2	15	16	8	1,2	1,8	⊗		⊗			⊗					⊗
 CNMU080508-D57T	M	2	9	8	5	0,8		⊗	⊗	⊗	⊗			⊗				⊗
CNMU120608-D57T	M	2	13	12	6,5	0,8		⊗	⊗	⊗	⊗			⊗				⊗
CNMU160812-D57T	M	2	15	16	8	1,2		⊗	⊗	⊗	⊗			⊗				⊗



Note: l₂ = Width of cut

HC = Coated carbide
HW = Uncoated carbide

Tangential rhombic LNMU Tiger-tec® Gold



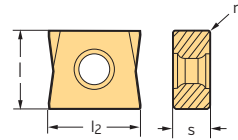
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P		M		K			N		S	
							HC		HC		HC			HC	HW	HC	
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35G	WKP35S	WXN15
 LNMU150812T-F27T	M	4	14	15	8	1,2	⊗	⊗	⊗				⊗	⊗			
LNMU201012T-F27T	M	4	16	20	10	1,2	⊗	⊗					⊗	⊗			
 LNMU150812-F57T	M	4	14	15	8	1,2	⊗	⊗	⊗	⊗							⊗
LNMU201012-F57T	M	4	16	20	10	1,2	⊗	⊗	⊗	⊗							⊗





HC = Coated carbide
HW = Uncoated carbide

Tangential rhombic LNHU / LNMU

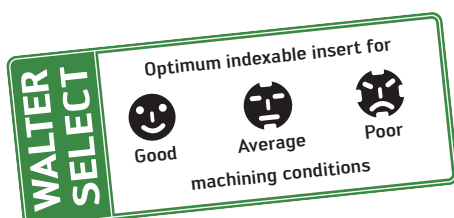
Tiger-tec® Gold



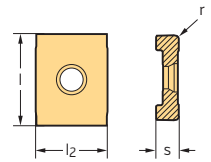
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P				M		K				N		S		
							HC				HC		HC				HC	HW	HC		
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S
 LNHU080304-B57T	H	4	9	8	3,5	0,4		☒	☒	☒				☒	☒	☒	☒				
LNHU080404-B57T	H	4	9,4	8	4,5	0,4		☒	☒	☒				☒	☒	☒	☒				
LNHU100508-B57T	H	4	12,3	10	5,5	0,8		☒	☒	☒				☒	☒	☒	☒				
LNHU120608-B57T	H	4	13,9	12	6,5	0,8		☒	☒	☒				☒	☒	☒	☒				
LNHU160812-B57T	H	4	16,9	16	8	1,2		☒	☒	☒				☒	☒	☒	☒				
 LNHU080304-F57T	H	4	9	8	3,5	0,4	☒	☒	☒	☒	☒			☒	☒	☒	☒			☒	☒
LNHU080404-F57T	H	4	9,4	8	4,5	0,4	☒	☒	☒	☒	☒			☒	☒	☒	☒			☒	☒
LNHU100508-F57T	H	4	12,3	10	5,5	0,8	☒	☒	☒	☒	☒			☒	☒	☒	☒			☒	☒
LNHU120608-F57T	H	4	13,9	12	6,5	0,8	☒	☒	☒	☒	☒			☒	☒	☒	☒			☒	☒
LNHU160812-F57T	H	4	16,9	16	8	1,2	☒	☒	☒	☒	☒			☒	☒	☒	☒			☒	☒
 LNMU080304-B57T	M	4	9	8	3,5	0,4		☒	☒	☒				☒	☒	☒	☒				
LNMU080404-B57T	M	4	9,4	8	4,5	0,4		☒	☒	☒				☒	☒	☒	☒				
LNMU100508-B57T	M	4	12,3	10	5,5	0,8		☒	☒	☒				☒	☒	☒	☒				
LNMU120608-B57T	M	4	13,9	12	6,5	0,8		☒	☒	☒				☒	☒	☒	☒				
LNMU160812-B57T	M	4	16,9	16	8	1,2		☒	☒	☒				☒	☒	☒	☒				
 LNMU080304-F57T	M	4	9	8	3,5	0,4	☒	☒	☒	☒	☒			☒	☒	☒	☒			☒	☒
LNMU080404-F57T	M	4	9,4	8	4,5	0,4	☒	☒	☒	☒	☒			☒	☒	☒	☒			☒	☒
LNMU100508-F57T	M	4	12,3	10	5,5	0,8	☒	☒	☒	☒	☒			☒	☒	☒	☒			☒	☒
LNMU120608-F57T	M	4	13,9	12	6,5	0,8	☒	☒	☒	☒	☒			☒	☒	☒	☒			☒	☒
LNMU160812-F57T	M	4	16,9	16	8	1,2	☒	☒	☒	☒	☒			☒	☒	☒	☒			☒	☒





HC = Coated carbide
HW = Uncoated carbide



Tangential rhombic LNHX / LNMX Tiger-tec® Gold

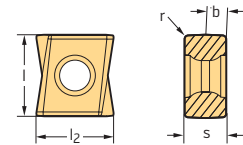


Indexable inserts


Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P				M		K			N		S	
							HC				HC		HC			HC	HW	HC	
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10
 LNHX070204-D57T	H	4	7	9	2,4	0,4	☉	☉	☉	☉				☉					
 LNHX070204-F57T	H	4	7	9	2,4	0,4	☉	☉	☉	☉	☉			☉	☉	☉		☉	☉
 LNMX070204-D57T	M	4	7	9	2,4	0,4	☉	☉						☉	☉	☉			
 LNMX070204-F57T	M	4	7	9	2,4	0,4	☉	☉	☉	☉				☉	☉	☉		☉	

HC = Coated carbide
HW = Uncoated carbide

Tangential rhombic LNHU / LNMU Tiger-tec® Gold



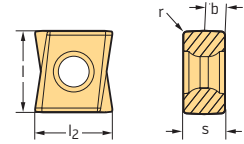
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	b mm	P				M		K			N		S	
								HC				HC		HC			HC	HW	HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10
 LNHU090404R-L55T	H	4	8,5	9	4,5	0,4	1,5	☉	☉	☉	☉	☉	☉					☉	☉	
LNHU090408R-L55T	H	4	8,5	9	4,5	0,8	1,1	☉	☉	☉	☉	☉	☉					☉	☉	
LNHU090412R-L55T	H	4	8,5	9	4,5	1,2	0,8		☉	☉	☉	☉	☉					☉	☉	
LNHU090416R-L55T	H	4	8,5	9	4,5	1,6			☉	☉	☉	☉	☉					☉	☉	
LNHU090420R-L55T	H	4	8,5	9	4,5	2			☉	☉	☉	☉	☉					☉	☉	
LNHU130608R-L55T	H	4	12	13	6,8	0,8	2,2	☉	☉	☉	☉	☉	☉					☉	☉	
LNHU130612R-L55T	H	4	12	13	6,8	1,2	1,9		☉	☉	☉	☉	☉					☉	☉	
LNHU130616R-L55T	H	4	12	13	6,8	1,6	1,5		☉	☉	☉	☉	☉					☉	☉	
LNHU130620R-L55T	H	4	12	13	6,8	2	1,2		☉	☉	☉	☉	☉					☉	☉	
LNHU130625R-L55T	H	4	12	13	6,8	2,5	0,7		☉	☉	☉	☉	☉					☉	☉	
LNHU130630R-L55T	H	4	12	13	6,8	3			☉	☉	☉	☉	☉					☉	☉	
LNHU130632R-L55T	H	4	12	13	6,8	3,2			☉	☉	☉	☉	☉					☉	☉	





HC = Coated carbide
HW = Uncoated carbide

C2

Tangential rhombic LNHU / LNMU Tiger-tec® Gold

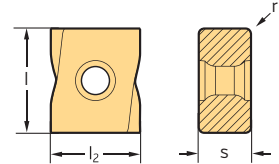


Indexable inserts


Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	b mm	P				M		K				N		S	
								HC				HC		HC				HC	HW	HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
 LNHU160708R-L55T	H	4	15,5	16	7,2	0,8	2,3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LNHU160712R-L55T	H	4	15,5	16	7,2	1,2	1,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LNHU160716R-L55T	H	4	15,5	16	7,2	1,6	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LNHU160720R-L55T	H	4	15,5	16	7,2	2	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LNHU160725R-L55T	H	4	15,5	16	7,2	2,5	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
 LNMU090404R-L55T	M	4	8,5	9	4,5	0,4	1,5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LNMU130608R-L55T	M	4	12	13	6,8	0,8	2,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
 LNHU090404R-L65T	H	4	8,5	9	4,5	0,4	1,5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LNHU130608R-L65T	H	4	12	13	6,8	0,8	2,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LNHU160708R-L65T	H	4	15,5	16	7,2	0,8	2,3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
 LNHU090404R-L85T	H	4	8,5	9	4,5	0,4	1,5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LNHU130608R-L85T	H	4	12	13	6,8	0,8	2,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LNHU160708R-L85T	H	4	15,5	16	7,2	0,8	2,3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

Tangential rhombic LNMX Tiger-tec® Gold

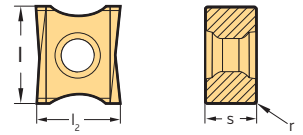


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P				M		K				N		S	
							HC				HC		HC				HC	HW	HC	
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
 LNMX201012R-F27T	M	4	17,05	20	10	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LNMX201012R-F57T	M	4	17,05	20	10	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

Tangential rhombic LNHX Tiger-tec® Silver



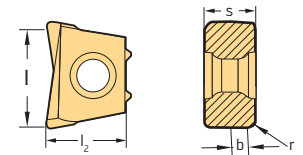
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P			M			K			N		S		
							HC			HC			HC			HC	HW	HC		
							WKP25S	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSM45X
LNHX120604R-L65T	H	4	11	12,7	6,8	0,4														



HC = Coated carbide
HW = Uncoated carbide

Tangential rhombic XNHX Tiger-tec® Silver



Indexable inserts

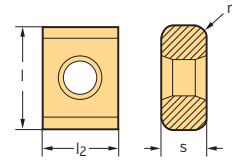
Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	b mm	P			M			K			N		S		
								HC			HC			HC			HC	HW	HC		
								WKP25S	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSM45X
XNHX130608R-L65T	H	2	10,5	14	6,8	0,8	2														
XNHX130612R-L65T	H	2	10,5	14	6,8	1,2	2														
XNHX130616R-L65T	H	2	10,5	14	6,8	1,6	2														
XNHX130620R-L65T	H	2	10,5	14	6,8	2	2														
XNHX130624R-L65T	H	2	10,5	14	6,8	2,4	2														
XNHX130630R-L65T	H	2	10,5	14	6,8	3	1,4														
XNHX130632R-L65T	H	2	10,5	14	6,8	3,2	1,3														
XNHX130640R-L65T	H	2	10,5	14	6,8	4	0,5														





HC = Coated carbide
HW = Uncoated carbide

C2

Tangential rhombic P44280 / P44290 Tiger-tec® Silver



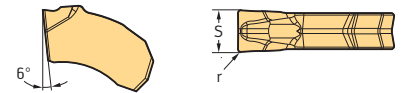
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P		M		K		N		S	
							HC		HC		HC		HC	HW	HC	
							WKP25S	WKP35S	WSP45S	WSP45S	WAK15	WKP25S	WKP35S	WXN15	WK10	WSM35S
 P44280-1R08-D57	H	8	9,52	12,7	5,5	0,8	☺		☺		☺				☺	
P44280-1R10-D57	H	8	9,52	12,7	5,5	1	☺		☺		☺				☺	
P44280-1R125-D57	H	8	9,52	12,7	5,5	1,25	☺		☺		☺				☺	
P44280-1R15-D57	H	8	9,52	12,7	5,5	1,5			☺						☺	
P44280-1R20-D57	H	8	9,52	12,7	5,5	2	☺		☺		☺				☺	
P44280-2R25-D57	H	8	9,52	12,7	6,35	2,5	☺		☺		☺				☺	
P44280-2R30-D57	H	8	9,52	12,7	6,35	3	☺		☺		☺				☺	
P44280-2R40-D57	H	4	9,52	12,7	6,35	4			☺						☺	
 P44290-1R08-D57	M	8	9,52	12,7	5,5	0,8	☺				☺					
P44290-1R10-D57	M	8	9,52	12,7	5,5	1	☺				☺					
P44290-1R125-D57	M	8	9,52	12,7	5,5	1,25	☺				☺					
P44290-1R20-D57	M	8	9,52	12,7	5,5	2	☺				☺					
P44290-2R25-D57	M	8	9,52	12,7	6,35	2,5	☺				☺					
P44290-2R30-D57	M	8	9,52	12,7	6,35	3	☺				☺					

P44280: Tolerance class H
P44290: Tolerance class M

HC = Coated carbide
HW = Uncoated carbide

Slitting SX cutting inserts Tiger-tec® Silver



Cutting inserts

Designation	s mm	r mm	S _{Tol} mm	P					M					K				N			S				
				HC					HC					HC				HC	HW	HC	HC				
				WKP23S	WKP25S	WKP35S	WSP45S	WSM23S	WSM33S	WSM35S	WSM43S	WSP45S	WAK15	WKP23S	WKK25S	WKP25S	WKP35S	WXN15	WK10	WK1	WSM23S	WSM33S	WSM35S	WSM43S	WSP45S
SX-1E150N01-SF5	1,5	0,15	±0,05																						
SX-2E200N02-SF5	2	0,2	±0,05																						
SX-3E300N02-SF5	3	0,2	±0,05																						
SX-4E400N02-SF5	4	0,2	±0,05																						
SX-5E500N04-SF5	5	0,4	±0,05																						
SX-1E150N01-CE4	1,5	0,15	±0,05																						
SX-1E150R/L6-CE4	1,5	0,15	±0,05																						
SX-2E200N02-CE4	2	0,2	±0,05	☺																					
SX-2E200R/L6-CE4	2	0,2	±0,05																						
SX-2E260N03-CE4	2,6	0,3	±0,05																						
SX-3E300N02-CE4	3	0,2	±0,05	☺																					
SX-3E300R/L6-CE4	3	0,2	±0,05	☺																					
SX-3E310N03-CE4	3,1	0,3	±0,05	☺																					
SX-4E400N02-CE4	4	0,2	±0,05	☺																					
SX-4E400R/L6-CE4	4	0,2	±0,05	☺																					
SX-4E410N03-CE4	4,1	0,3	±0,05	☺																					
SX-4E480N03-CE4	4,8	0,3	±0,05	☺																					
SX-5E500N04-CE4	5	0,4	±0,05	☺																					
SX-5E500R/L6-CE4	5	0,4	±0,05																						
SX-6E600N04-CE4	6	0,4	±0,05	☺																					
SX-6E600R/L6-CE4	6	0,4	±0,05																						
SX-8E800N08-CE4	8	0,8	±0,05	☺																					
SX-10E1000N08-CE4	10	0,8	±0,05	☺																					
SX-1E150N01-CF6	1,5	0,15	±0,05																						
SX-2E200N02-CF6	2	0,2	±0,05																						
SX-3E300N02-CF6	3	0,2	±0,05																						
SX-1E150N01-SK8	1,5	0,1	±0,02																						
SX-2E200N02-SK8	2	0,2	±0,02																						
SX-3E300N02-SK8	3	0,2	±0,02																						
SX-4E400N02-SK8	4	0,2	±0,02																						
SX-5E500N04-SK8	5	0,4	±0,02																						
SX-6E600N04-SK8	6	0,4	±0,02																						

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.05 mm

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Optimum indexable insert for

☺
Good

☹
Average

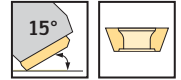
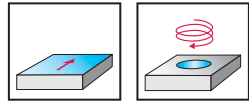
☹
Poor

machining conditions

Face milling cutters

F2010 mm
SDM . 1204 ..


- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●●	●●	●●	●●	●●	●	●

Tool	Designation	D _c mm	D _a * mm	d ₁ mm	l ₄ mm	L _c mm	a _r mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	★ F2010.B.080.Z06.08.R755M	70	93	27	50	2	11,4	6	1,3	6	SDM . 1204 ..
Parallel bore DIN 138 transverse keyway 	★ F2010.B.100.Z07.08.R755M	90	113	32	50	2	11,4	7	1,9	7	SDM . 1204 ..
	★ F2010.B.125.Z08.08.R755M	115	138	40	63	2	11,4	8	3,6	8	
Parallel bore DIN 138 transverse keyway 	★ F2010.B.160.Z10.08.R755M	150	173	40/40 B	63	2	11,4	10	5,6	10	SDM . 1204 ..
	★ F2010.B.200.Z12.08.R755M	190	213	60/50 B	63	2	11,4	12	8,3	12	
	★ F2010.B.250.Z12.08.R755M	240	263	60/50 B	63	2	11,4	12	14,8	12	
	★ F2010.B.250.Z16.08.R755M	240	263	60/50 B	63	2	11,4	16	14,6	16	
Parallel bore DIN 138 transverse keyway 	★ F2010.B.315.Z14.08.R755M	305	328	60/50-60 BB	80	2	11,4	14	26,3	14	SDM . 1204 ..
	★ F2010.B.315.Z18.08.R755M	305	328	60/50-60 BB	80	2	11,4	18	26,2	18	

* Measured against SDM.120408
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts

		D _c [mm]	70–305
	Cartridge for tool body		FR755M
	Clamping screw for cartridge Tightening torque		FS247 (SW 4) 8,0 Nm
	Clamping screw for indexable insert Tightening torque		FS1453 (Torx 15IP) 3,5 Nm
	Adjusting pin		FS303 (Torx 20)

Accessories

		D _c [mm]	70–305
	Torque screwdriver, analogue Tightening torque		FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver		FS2014 (Torx 15IP)
	Torque T-handle Tightening torque		FS2041 4,5–14 Nm
	Interchangeable blade for cartridge		FS2051 (SW 4)
	Screwdriver for indexable insert		FS1485 (Torx 15IP)
	Screwdriver for adjusting pin		FS228 (Torx 20)
	ISO 2936 Allen key for cartridge		ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K				S		
			HC				HC			HC				HC		
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
SDMT1204ZDR-D57	0,8	1,8	☉	☉	☉	☉	☉	☉								☉
SDMT120408-D57	0,8		☉	☉	☉	☉	☉	☉		☉	☉	☉	☉	☉	☉	☉
SDMT120408-F57	0,8		☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
SDMT120425-F57	2,5		☉	☉	☉	☉	☉	☉								
SDMW120408-A57	0,8		☉	☉	☉	☉	☉	☉								

SD..1204.. : If the corner radius is $r > 0.8$ mm, the corner area of the cartridge must be reworked.
 $R_{(body)} = r_{(indexable\ insert)}$

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●● Primary application

● Other application

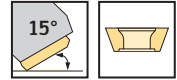
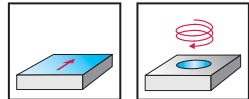
Face milling cutters

F2010 inch

SDM . 1204 ..



- Adjustable runout
- Four cutting edges per indexable insert




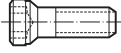

	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	D _a * Inch	d ₁ Inch	l ₄ Inch	L _c Inch	a _r Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.076.Z06.08R755M	2,604	3,509	1,000	2,000	0,079	0,449	6	3,3	6	SDM . 1204 ..
	★ F2010.UB.102.Z07.08R755M	3,604	4,509	1,250	2,000	0,079	0,449	7	5,7	7	
	★ F2010.UB.127.Z08.08R755M	4,604	5,509	1,500	2,500	0,079	0,449	8	7,5	8	
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.152.Z10.08R755M	5,604	6,509	1,500	2,500	0,079	0,449	10	14,6	10	SDM . 1204 ..
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.203.Z12.08R755M	7,604	8,509	2,500	2,500	0,079	0,449	12	21,4	12	SDM . 1204 ..
	★ F2010.UB.254.Z12.08R755M	9,604	10,509	2,500	2,500	0,079	0,449	12	36,4	12	
	★ F2010.UB.254.Z16.08R755M	9,604	10,509	2,500	2,500	0,079	0,449	16	36,4	16	
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.305.Z18.08R755M	11,604	12,509	2,500	2,500	0,079	0,449	18	45,6	18	SDM . 1204 ..








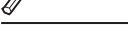
* Measured against SDM.120408
 Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range



Assembly parts

D _c [Inch]	2,604	3,604	4,604–5,604	7,604–11,604
 Cartridge for tool body	FR755M	FR755M	FR755M	FR755M
 Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm
 Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
 Adjusting pin	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)
 Clamping screw for arbour-mounted tools	FS1519	FS1565	FS1566	

Accessories

D _c [Inch]	2,604–11,604
 Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
 Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
 Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
 Torque T-handle Tightening torque	FS2042 4,5–14 Nm
 Interchangeable blade for cartridge	FS2051 (SW 4)
 Screwdriver for indexable insert	FS1485 (Torx 15IP)
 Screwdriver for adjusting pin	FS228 (Torx 20)
 ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P			M			K			S					
			HC			HC			HC			HC					
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S
 SDMT1204ZDR-D57	0,8	1,8	☉	☉	☉	☉			☉								☉
 SDMT120408-D57	0,8		☉	☉	☉	☉	☉		☉		☉	☉	☉	☉	☉		☉
SDMT120408-F57	0,8		☉	☉	☉	☉	☉		☉		☉	☉	☉	☉	☉		☉
SDMT120425-F57	2,5											☉	☉	☉	☉		☉
SDMW120408-A57	0,8		☉	☉	☉				☉								☉

SD..1204.. : If the corner radius is r > 0.8 mm, the corner area of the cartridge must be reworked.
 $R_{(body)} = r_{(indexable\ insert)}$

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

😐
Moderate

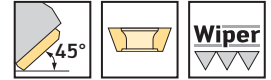
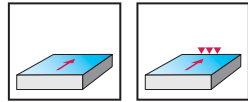
●●
Primary application

●
Other application

Face milling cutters

F2010 mm
SD .. 1204AZN


- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c mm	D _a mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	★ F2010.B.080.Z06.06.R758M	80	94	27	50	7	6	1,2	6	SD .. 1204AZN SDHX1204AZR
Parallel bore DIN 138 transverse keyway 	★ F2010.B.100.Z07.06.R758M	100	114	32	50	7	7	1,8	7	SD .. 1204AZN SDHX1204AZR
	★ F2010.B.125.Z08.06.R758M	125	139	40	63	7	8	3,5	8	SDHX1204AZR
Parallel bore DIN 138 transverse keyway 	★ F2010.B.160.Z10.06.R758M	160	174	40/40 B	63	7	10	5,5	10	SD .. 1204AZN SDHX1204AZR
	★ F2010.B.200.Z12.06.R758M	200	214	60/50 B	63	7	12	8,3	12	
	★ F2010.B.250.Z12.06.R758M	250	264	60/50 B	63	7	12	14,7	12	
	★ F2010.B.250.Z16.06.R758M	250	264	60/50 B	63	7	16	14,6	16	
Parallel bore DIN 138 transverse keyway 	★ F2010.B.315.Z14.06.R758M	315	329	60/50-60 BB	80	7	14	26,3	14	SD .. 1204AZN
	★ F2010.B.315.Z18.06.R758M	315	329	60/50-60 BB	80	7	18	26,2	18	SDHX1204AZR

Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range

Assembly parts

D _c [mm]		80–315
	Cartridge for tool body	FR758M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm
	Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm
	Adjusting pin	FS303 (Torx 20)

Accessories

D _c [mm]		80–315
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2041 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P		M			K				N		S			H	O	
			HC	HC	HC	HC	HC	HC	HC	HW	HC	HC	HC	HC	HC				
SDHX1204AZR-A88		7,5																	
SDGT1204AZN-F57	0,3	1,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDGT1204AZN-G77	0,3	1,4			☺														
SDHT1204AZN-G88	0,3	1,4			☺							☺	☺						
SDMT1204AZN-D57	0,3	1,4	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT1204AZN-F57	0,3	1,8	☺	☺	☺		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMW1204AZN-A57	0,3	1,4	☺	☺					☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

•• Primary application

• Other application

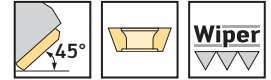
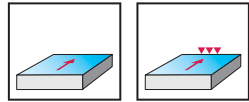
Face milling cutters

F2010 inch

SD .. 1204AZN



- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	D _a Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.076.Z06.06R758M	3,000	3,551	1,000	2,000	0,276	6	2,4	6	SD .. 1204AZN SDHX1204AZR
	★ F2010.UB.102.Z07.06R758M	4,000	4,551	1,250	2,000	0,276	7	4,3	7	
	★ F2010.UB.127.Z08.06R758M	5,000	5,551	1,500	2,500	0,276	8	7,5	8	
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.152.Z10.06R758M	6,000	6,551	1,500	2,500	0,276	10	13,1	10	SD .. 1204AZN SDHX1204AZR
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.203.Z12.06R758M	8,000	8,551	2.50/4.0	2,500	0,276	12	21,6	12	SD .. 1204AZN SDHX1204AZR
	★ F2010.UB.254.Z12.06R758M	10,000	10,551	2.50/4.0	2,500	0,276	16	39,6	16	
	★ F2010.UB.254.Z16.06R758M	10,000	10,551	2.50/4.0	2,500	0,276	12	38,6	12	
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.305.Z18.06R758M	12,000	12,551	2.50/4.0/7.0	2,500	0,276	18	49,5	18	SD .. 1204AZN SDHX1204AZR

Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range

Assembly parts

D _c [Inch]		3,000	4,000	5,000–6,000	8,000–12,000
	Cartridge for tool body	FR758M	FR758M	FR758M	FR758M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm
	Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
	Adjusting pin	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)
	Clamping screw for arbour-mounted tools	FS1519	FS1565	FS1566	

Accessories

D _c [Inch]		3,000–12,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2042 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P		M		K		N		S		H	O							
			HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC								
SDHX1204AZR-A88		7,5	WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WYN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15
SDGT1204AZN-F57	0,3	1,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDGT1204AZN-G77	0,3	1,4	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDHT1204AZN-G88	0,3	1,4	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT1204AZN-D57	0,3	1,4	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT1204AZN-F57	0,3	1,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMW1204AZN-A57	0,3	1,4	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

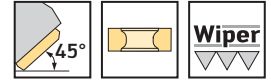
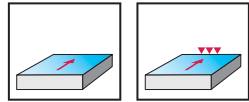
•• Primary application

• Other application

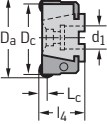
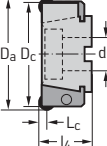
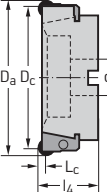
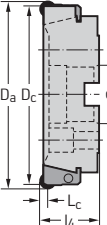
Face milling cutters

F2010 mm
XN . U0705 ..


- Adjustable runout
- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	D _a mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	★ F2010.B.080.Z06.04.R759M	80	90	27	50	4	6	1,2	6	XN . U0705 .. XNGX0705ANN
Parallel bore DIN 138 transverse keyway 	★ F2010.B.100.Z07.04.R759M	100	110	32	50	4	7	1,8	7	XN . U0705 .. XNGX0705ANN
	★ F2010.B.125.Z08.04.R759M	125	135	40	63	4	8	3,5	8	XN . U0705 .. XNGX0705ANN
Parallel bore DIN 138 transverse keyway 	★ F2010.B.160.Z10.04.R759M	160	170	40/40 B	63	4	10	5,5	10	XN . U0705 .. XNGX0705ANN
	★ F2010.B.200.Z12.04.R759M	200	210	60/50 B	63	4	12	8,3	12	
	★ F2010.B.250.Z12.04.R759M	250	260	60/50 B	63	4	12	14,7	12	
	★ F2010.B.250.Z16.04.R759M	250	260	60/50 B	63	4	16	14,6	16	
Parallel bore DIN 138 transverse keyway 	★ F2010.B.315.Z14.04.R759M	315	325	60/50-60 BB	80	4	14	26,3	14	XN . U0705 .. XNGX0705ANN
	★ F2010.B.315.Z18.04.R759M	315	325	60/50-60 BB	80	4	18	26,2	18	

Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range

Assembly parts

D _c [mm]		80–315
	Cartridge for tool body	FR759M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm
	Clamping screw for indexable insert Tightening torque	FS2119 (Torx 15IP) 3,0 Nm
	Adjusting pin	FS303 (Torx 20)

Accessories

D _c [mm]		80–315
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2041 4,5–14 Nm
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	Interchangeable blade for cartridge	FS2051 (SW 4)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K			N		S		H	O
			HC	HC	HC	HC	HC	HC	HC	HC	HW	HC	HC	HC	HC			
	XNGU0705ANN-F57	0,8	1,1	⊕	⊕	⊕	⊕	⊕		⊕	⊕	⊕						
	XNGU0705ANN-F67	0,8	1,1	⊕	⊕	⊕	⊕	⊕		⊕	⊕	⊕						
	XNGX0705ANN-F67		5,7						⊕								⊕	⊕
	XNMMU070508-F57	0,8		⊕	⊕	⊕	⊕	⊕		⊕	⊕	⊕						
	XNMMU0705ANN-F27	0,8	1,1	⊕	⊕	⊕	⊕	⊕		⊕	⊕	⊕						
	XNMMU0705ANN-F57	0,8	1,1	⊕	⊕	⊕	⊕	⊕		⊕	⊕	⊕						
	XNMMU0705ANN-F67	0,8	1,1	⊕	⊕	⊕	⊕	⊕		⊕	⊕	⊕						

XNGX0705ANN-F67 wiper insert only in combination with XNGU0705ANN . .

HC = Coated carbide
HW = Uncoated carbide

C2

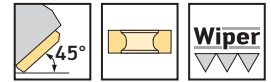
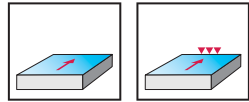
Face milling cutters

F2010 inch

XN . U0705 ..



- Adjustable runout
- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c Inch	D _a Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type	
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.076.Z06.04R759M	3,000	3,394	1,000	2,000	0,157	6	2,4	6	XN . U0705 .. XNGX0705ANN	
	★ F2010.UB.102.Z07.04R759M	4,000	4,394	1,250	2,000	0,157	7	4,3	7		
	★ F2010.UB.127.Z08.04R759M	5,000	5,394	1,500	2,500	0,157	8	7,5	8		
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.152.Z10.04R759M	6,000	6,394	1,500	2,500	0,157	10	13,1	10	XN . U0705 .. XNGX0705ANN	
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.203.Z12.04R759M	8,000	8,394	2.50/4.0	2,500	0,157	12	21,6	12	XN . U0705 .. XNGX0705ANN	
	★ F2010.UB.254.Z12.04R759M	10,000	10,394	2.50/4.0	2,500	0,157	16	39,6	16		
	★ F2010.UB.254.Z16.04R759M	10,000	10,394	2.50/4.0	2,500	0,157	12	38,6	12		
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.305.Z18.04R759M	12,000	12,394	2.50/4.0/7.0	2,500	0,157	18	49,5	18	XN . U0705 .. XNGX0705ANN	

Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range

Assembly parts

D _c [Inch]		3,000	4,000	5,000–6,000	8,000–12,000
	Cartridge for tool body	FR759M	FR759M	FR759M	FR759M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm
	Clamping screw for indexable insert Tightening torque	FS2119 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm
	Adjusting pin	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)
	Clamping screw for arbour-mounted tools	FS1519	FS1565	FS1566	

Accessories

D _c [Inch]		3,000–12,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2042 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P		M		K			N		S			H	O						
			HC	HC	HC	HC	HC	HC	HW	HC	HC	HC	HC	HC								
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15	
	0,8	1,1	☉	☉	☉	☉	☉	☉			☉	☉	☉	☉								
XNGU0705ANN-F67	0,8	1,1	☉	☉	☉	☉	☉	☉			☉	☉	☉	☉								
		5,7							☉												☉	☉
	0,8		☉	☉	☉	☉	☉	☉			☉	☉	☉	☉			☉					
XNMU0705ANN-F27	0,8	1,1	☉	☉	☉	☉	☉	☉			☉	☉	☉	☉								
XNMU0705ANN-F57	0,8	1,1	☉	☉	☉	☉	☉	☉			☉	☉	☉	☉			☉					
XNMU0705ANN-F67	0,8	1,1	☉	☉	☉	☉	☉	☉			☉	☉	☉	☉			☉	☉				

XNGX0705ANN-F67 wiper insert only in combination with XNGU0705ANN . .

HC = Coated carbide
HW = Uncoated carbide

C2

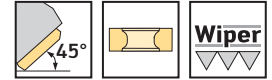
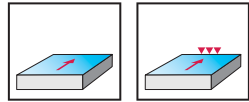
Heptagon face milling cutters

M3024

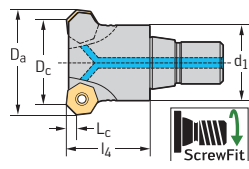
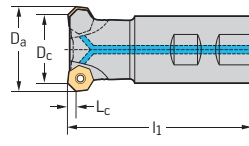
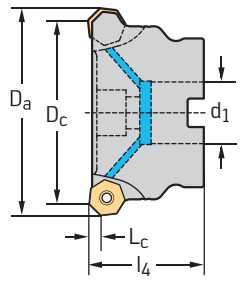
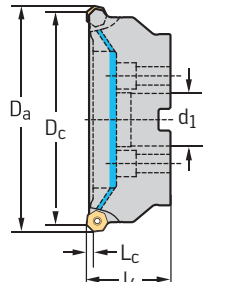
**XN . U0705 ..
Walter BLAXX**



- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
M3024	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	D _a mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	Z	kg	No. of indexable inserts	Type
ScrewFit 	M3024-040-T36-03-04	40	50	T36	40		4	3	0,4	3	XN . U0705 .. XNGX0705ANN
Shank DIN 1835 B 	M3024-040-W40-03-04	40	50	40	40	110	4	3	1,0	3	XN . U0705 .. XNGX0705ANN
Parallel bore DIN 138 transverse keyway 	M3024-040-B16-03-04	40	50	16	40		4	3	0,5	3	XN . U0705 .. XNGX0705ANN
	M3024-050-B22-04-04	50	60	22	40		4	4	0,5	4	
	M3024-050-B22-05-04	50	60	22	40		4	5	0,5	5	
	M3024-063-B22-05-04	63	73	22	40		4	5	0,8	5	
	M3024-063-B22-06-04	63	73	22	40		4	6	0,8	6	
	M3024-080-B27-06-04	80	90	27	50		4	6	1,5	6	
	M3024-080-B27-07-04	80	90	27	50		4	7	1,5	7	
	M3024-100-B32-07-04	100	110	32	50		4	7	2,7	7	
	M3024-100-B32-08-04	100	110	32	50		4	8	2,7	8	
	M3024-125-B40-08-04	125	135	40	63		4	8	4,3	8	
Parallel bore DIN 138 transverse keyway 	M3024-160-B40-09-04	160	170	40/40 B	63		4	9	6,5	9	XN . U0705 .. XNGX0705ANN
	M3024-160-B40-12-04	160	170	40/40 B	63		4	12	6,5	12	

Bodies and assembly parts are included in the scope of delivery.

C2

Assembly parts

D _c [mm]		40–125
	Shim for indexable insert	AP800-XN0705 H81
	Clamping screw for shim	FS2068 (SW 3,5) 4,5 Nm
	Clamping screw for indexable insert Tightening torque	FS2279 (Torx 15IP) 3,0 Nm

Accessories

D _c [mm]		40–125	160
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
	Torque T-handle Tightening torque	FS2041 4,5–14,0 Nm	FS2041 4,5–14,0 Nm
	Interchangeable blade for indexable insert	FS2014 (Torx 15IP)	FS2014 (Torx 15IP)
	Interchangeable blade for shim	FS2566 (SW 3,5)	FS2566 (SW 3,5)
	Screwdriver	FS1485 (Torx 15IP)	FS1485 (Torx 15IP)
	Key for screw for shim	ISO2936-3,5 (SW 3,5)	ISO2936-3,5 (SW 3,5)
	Sealing disc set, complete		FS936 COMPLETE SET
	Gasket		O-R 96X4

Indexable inserts

Designation	r mm	b mm	P			M			K			N		S			H	O
			HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	
	XNGU0705ANN-F57	0,8	1,1	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
	XNGU0705ANN-F67	0,8	1,1	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
	XNGX0705ANN-F67		5,7						⊕								⊕	⊕
	XNMMU070508-F57	0,8		⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
	XNMMU0705ANN-F27	0,8	1,1	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
	XNMMU0705ANN-F57	0,8	1,1	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
	XNMMU0705ANN-F67	0,8	1,1	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

XNGX0705ANN-F67 wiper insert only in combination with XNGU0705ANN . .

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

•• Primary application

• Other application

C2

Heptagon face milling cutters

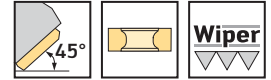
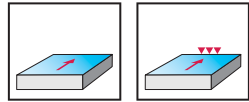
M3024 inch

XN . U0705 ..

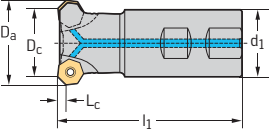
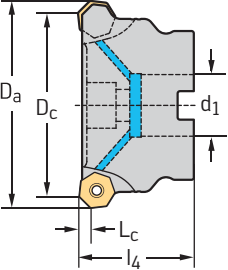
Walter BLAXX



- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
M3024	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c Inch	D _a Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Shank DIN 1835 B 	M3024.038-W38-03-04	1,500	1,886	0,375	1,500	0,157	3	1,8	3	XN . U0705 .. XNGX0705ANN
Parallel bore DIN 138 transverse keyway 	M3024.038-B13-03-04	1,500	1,886	0,500	1,575	0,157	3	0,5	3	XN . U0705 .. XNGX0705ANN
	M3024.051-B19-04-04	2,000	2,386	0,750	1,575	0,157	4	1,3	4	
	M3024.064-B26-06-04	2,500	2,886	1,000	1,575	0,157	6	1,8	6	
	M3024.076-B26-07-04	3,000	3,386	1,000	1,969	0,157	7	3,0	7	
	M3024.102-B31-08-04	4,000	4,386	1,250	1,969	0,157	8	4,8	8	
	M3024.127-B38-10-04	5,000	5,386	1,500	2,480	0,157	10	9,9	10	
	M3024.152-B38-12-04	6,000	6,386	1,500	2,480	0,157	12	15,7	12	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		1,500	2,000	2,500–3,000	4,000	5,000–6,000
	Shim for indexable insert	AP800-XN0705 H81	AP800-XN0705 H81	AP800-XN0705 H81	AP800-XN0705 H81	AP800-XN0705 H81
	Clamping screw for shim	FS2068 (SW 3,5) 4,5 Nm	FS2068 (SW 3,5) 4,5 Nm	FS2068 (SW 3,5) 4,5 Nm	FS2068 (SW 3,5) 4,5 Nm	FS2068 (SW 3,5) 4,5 Nm
	Clamping screw for indexable insert	FS2279 (Torx 15IP) 3,0 Nm	FS2279 (Torx 15IP) 3,0 Nm	FS2279 (Torx 15IP) 3,0 Nm	FS2279 (Torx 15IP) 3,0 Nm	FS2279 (Torx 15IP) 3,0 Nm
	Clamping screw for arbour-mounted tools	FS1597	FS1523	FS1519	FS1339	FS1583

Accessories

D _c [Inch]		1,500–6,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Torque T-handle Tightening torque	FS2041 4,5–14,0 Nm
	Interchangeable blade for indexable insert	FS2014 (Torx 15IP)
	Interchangeable blade for shim	FS2566 (SW 3,5)
	Screwdriver	FS1485 (Torx 15IP)
	Key for screw for shim	ISO2936-3.5 (SW 3,5)

Indexable inserts

Designation	r mm	b mm	P		M		K			N		S		H	O							
			HC	HW	HC	HW	HC	HW	HC	HW	HC	HW										
	XNGU0705ANN-F57	0,8	1,1	WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15
	XNGU0705ANN-F67	0,8	1,1	WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15
	XNGX0705ANN-F67		5,7								WAK15										WHH15	WXM15
	XNMU070508-F57	0,8		WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15
	XNMU0705ANN-F27	0,8	1,1	WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15
	XNMU0705ANN-F57	0,8	1,1	WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15
	XNMU0705ANN-F67	0,8	1,1	WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15

XNGX0705ANN-F67 wiper insert only in combination with XNGU0705ANN . .

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

●● Primary application

● Other application

C2

Heptagon face milling cutters

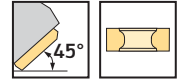
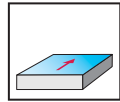
M3024

XNMU0906ANN

Walter BLAXX



- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
M3024	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	D _a mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M3024-063-B22-05-06	63	76	22	40	6	5	0,6	5	XNMU0906ANN
	M3024-080-B27-06-06	80	93	27	50	6	6	1,4	6	
	M3024-100-B32-07-06	100	113	32	50	6	7	2,7	7	
	M3024-125-B40-08-06	125	138	40	63	6	8	4,2	8	
Parallel bore DIN 138 transverse keyway 	M3024-160-B40-09-06	160	173	40/40 B	63	6	9	6,5	9	XNMU0906ANN

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		63–160
	Shim for indexable insert	AP800-XN0906 H81
	Clamping screw for shim	FS2091 (SW 5)
	Clamping screw for indexable insert Tightening torque	FS2112 (Torx 20IP) 5,0 Nm

Accessories

D _c [mm]		63–125	160
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2015 (Torx 20IP)	FS2015 (Torx 20IP)
	Screwdriver	FS1486 (Torx 20IP)	FS1486 (Torx 20IP)
	Key for screw for shim	ISO2936-5 (SW 5)	ISO2936-5 (SW 5)
	Gasket		O-R 96X4
	Sealing disc set (incl. gasket and screws)		FS936 COMPLETE SET

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S	
			HC				HC			HC				HC	HW	HC	
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
XNMU0906ANN-F27	0.8	1.4	☺	☺					☺	☺	☺	☺					
XNMU0906ANN-F57	0.8	1.4	☺	☺	☺	☹		☺	☺	☺	☺				☹		
XNMU0906ANN-F67	0.8	1.4	☺	☺			☹		☺	☺	☺					☹	

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●● Primary application

● Other application

Heptagon face milling cutters

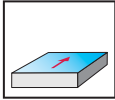
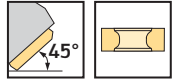
M3024 inch

XNMU0906ANN

Walter BLAXX



- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
M3024	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c Inch	D _a Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M3024.064-B26-05-06	2,500	3,006	1,000	1,575	0,236	5	1,8	5	XNMU0906ANN
	M3024.076-B26-06-06	3,000	3,506	1,000	1,969	0,236	6	2,9	6	
	M3024.102-B31-07-06	4,000	4,506	1,250	1,969	0,236	7	6,2	7	
	M3024.127-B38-08-06	5,000	5,506	1,500	2,480	0,236	8	9,8	8	
Parallel bore DIN 138 transverse keyway 	M3024.152-B38-09-06	6,000	6,506	1,500	2,480	0,236	9	15,7	9	XNMU0906ANN

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		2,500	3,000	4,000	5,000–6,000
D _c [Inch]					
	Shim for indexable insert	AP800-XN0906 H81	AP800-XN0906 H81	AP800-XN0906 H81	AP800-XN0906 H81
	Clamping screw for shim	FS2091 (SW 5)	FS2091 (SW 5)	FS2091 (SW 5)	FS2091 (SW 5)
	Clamping screw for indexable insert	FS2112 (Torx 20IP)	FS2112 (Torx 20IP)	FS2112 (Torx 20IP)	FS2112 (Torx 20IP)
	Tightening torque	5,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm
	Clamping screw for arbour-mounted tools	FS1586	FS1519	FS1339	FS1583

Accessories		2,500–6,000
D _c [Inch]		
	Torque screwdriver, analogue	FS2002
	Tightening torque	0,4–1,2 Nm
	Torque screwdriver, digital	FS2248
	Tightening torque	1,0–6,0 Nm
	Interchangeable blade	FS2015 (Torx 20IP)
	Screwdriver	FS1486 (Torx 20IP)
	Key for screw for shim	ISO2936-5 (SW 5)

Indexable inserts																					
					P		M		K			N		S							
					HC		HC		HC			HC HW		HC							
Designation		r mm	b mm	WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	
	XNMM0906ANN-F27	0,8	1,4	☺	☺							☺	☺	☺							
	XNMM0906ANN-F57	0,8	1,4	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺			
	XNMM0906ANN-F67	0,8	1,4	☺	☺				☺			☺	☺						☺		

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●● Primary application

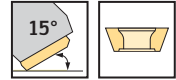
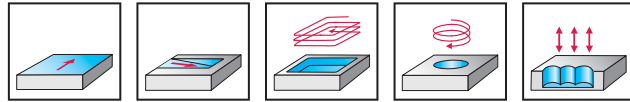
● Other application

High-feed face milling cutters

M4002



– Four cutting edges per indexable insert



	P	M	K	N	S	H	O
M4002	●	●	●	●	●	●	●

Tool	Designation	D _c mm	D _a * mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	a _r mm	Z	kg	No. of indexable inserts	Type
ScrewFit 	M4002-020-T18-02-01	8	20	T18	30		1	5,7	2	0,1	2	SDM . 06T2 ..
	M4002-025-T22-02-01,5	8	25	T22	40		1,5	8,4	2	0,1	2	SDM . 09T3 ..
	M4002-025-T22-03-01	13	25	T22	35		1	5,7	3	0,1	3	SDM . 06T2 ..
	M4002-032-T28-03-01,5	15	32	T28	40		1,5	8,4	3	0,2	3	SDM . 09T3 ..
	M4002-032-T28-04-01	20	32	T28	40		1	5,7	4	0,2	4	SDM . 06T2 ..
	M4002-035-T28-03-01,5	18	35	T28	40		1,5	8,4	3	0,2	3	SDM . 09T3 ..
	M4002-035-T28-03-01	23	35	T28	40		1	5,7	3	0,2	3	SDM . 06T2 ..
	M4002-035-T28-04-01	23	35	T28	40		1	5,7	4	0,2	4	SDM . 06T2 ..
	M4002-040-T36-04-01,5	23	40	T36	40		1,5	8,4	4	0,3	4	SDM . 09T3 ..
	M4002-040-T36-05-01	28	40	T36	40		1	5,7	5	0,4	5	SDM . 06T2 ..
	M4002-042-T36-03-01,5	25	42	T36	40		1,5	8,4	3	0,3	3	SDM . 09T3 ..
	M4002-042-T36-04-01	30	42	T36	40		1	5,7	4	0,4	4	SDM . 06T2 ..
M4002-042-T36-05-01	30	42	T36	40		1	5,7	5	0,4	5	SDM . 06T2 ..	
Parallel shank 	M4002-020-A20-02-01	8	20	20	30	200	1	5,7	2	0,5	2	SDM . 06T2 ..
	M4002-025-A25-03-01	13	25	25	35	200	1	5,7	3	0,8	3	
	M4002-032-A32-04-01	20	32	32	40	250	1	5,7	4	1,5	4	

* Measured using SDM.06T204, SDM.09T308, SDM.120408
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts		SDM . 06T2 ..	SDM . 09T3 ..
	Type Clamping screw for indexable insert Tightening torque	FS2084 (Torx 7IP) 0,9 Nm	FS2266 (Torx 10IP) 2,0 Nm

Accessories		SDM . 06T2 ..	SDM . 09T3 ..
	Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2011 (Torx 7IP)	FS2268 (Torx 10IP)
	Screwdriver	FS2088 (Torx 7IP)	FS2267 (Torx 10IP)

Designation	r mm	b mm	P			M			K			S				
			HC			HC			HC			HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
	SDMT06T2ZDR-D57	0,4	1,2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	SDMT09T3ZDR-D57	0,8	1,2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	SDMT06T204-D57	0,4		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	SDMT06T204-F57	0,4		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	SDMT06T212-F57	1,2		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	SDMW06T204-A57	0,4		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	SDMT09T308-D57	0,8		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	SDMT09T308-F57	0,8		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	SDMT09T320-F57	2		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	SDMW09T308-A57	0,8		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗

For SD..120425 indexable inserts, the circumference of the body must be reworked.

HC = Coated carbide

R_(body) = r_(indexable insert)

WALTER
SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

•• Primary application

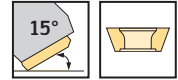
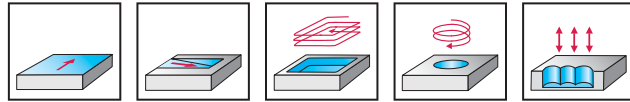
• Other application

High-feed face milling cutters

M4002 mm



– Four cutting edges per indexable insert



	P	M	K	N	S	H	O
M4002	●	●	●	●	●	●	●

Tool	Designation	D _c mm	D _a * mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	a _r mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M4002-040-B16-05-01	28	40	16	40		1	5,7	5	0,2	5	SDM . 06T2 ..
	M4002-042-B16-04-01,5	25	42	16	40		1,5	8,4	4	0,2	4	SDM . 09T3 ..
	M4002-042-B16-04-01	30	42	16	40		1	5,7	4	0,2	4	SDM . 06T2 ..
	M4002-042-B16-05-01	30	42	16	40		1	5,7	5	0,2	5	SDM . 06T2 ..
	M4002-050-B22-04-02	27	50	22	40		2	11,4	4	0,3	4	SDM . 1204 ..
	M4002-050-B22-05-02	27	50	22	40		2	11,4	5	0,3	5	SDM . 1204 ..
	M4002-050-B22-05-01,5	33	50	22	40		1,5	8,4	5	0,3	5	SDM . 09T3 ..
	M4002-050-B22-07-01	38	50	22	40		1	5,7	7	0,4	7	SDM . 06T2 ..
	M4002-052-B22-03-02	29	52	22	40		2	11,4	3	0,4	3	SDM . 1204 ..
	M4002-052-B22-04-02	29	52	22	40		2	11,4	4	0,3	4	SDM . 1204 ..
	M4002-052-B22-05-02	29	52	22	40		2	11,4	5	0,4	5	SDM . 1204 ..
	M4002-052-B22-04-01,5	35	52	22	40		1,5	8,4	4	0,4	4	SDM . 09T3 ..
	M4002-052-B22-05-01,5	35	52	22	40		1,5	8,4	5	0,4	5	SDM . 09T3 ..
	M4002-052-B22-06-01	40	52	22	40		1	5,7	6	0,4	6	SDM . 06T2 ..
	M4002-052-B22-07-01	40	52	22	40		1	5,7	7	0,4	7	SDM . 06T2 ..
	M4002-063-B22-05-02	40	63	22	40		2	11,4	5	0,6	5	SDM . 1204 ..
	M4002-063-B22-06-02	40	63	22	40		2	11,4	6	0,5	6	SDM . 1204 ..
	M4002-063-B22-06-01,5	46	63	22	50		1,5	8,4	6	0,8	6	SDM . 09T3 ..
	M4002-063-B22-08-01	51	63	22	40		1	5,7	8	0,6	8	SDM . 06T2 ..
	M4002-066-B27-04-02	43	66	27	50		2	11,4	4	0,8	4	SDM . 1204 ..
	M4002-066-B27-05-02	43	66	27	50		2	11,4	5	0,8	5	SDM . 1204 ..
	M4002-066-B27-06-02	43	66	27	50		2	11,4	6	0,8	6	SDM . 1204 ..
	M4002-066-B27-05-01,5	49	66	27	50		1,5	8,4	5	0,8	5	SDM . 09T3 ..
	M4002-066-B27-06-01,5	49	66	27	50		1,5	8,4	6	0,8	6	SDM . 09T3 ..
	M4002-066-B27-07-01	54	66	27	50		1	5,7	7	0,9	7	SDM . 06T2 ..
	M4002-066-B27-08-01	54	66	27	40		1	5,7	8	0,8	8	SDM . 06T2 ..
	M4002-080-B27-06-02	57	80	27	50		2	11,4	6	1,3	6	SDM . 1204 ..
	M4002-080-B27-08-02	57	80	27	50		2	11,4	8	1,3	8	SDM . 1204 ..
	M4002-085-B27-05-02	62	85	27	50		2	11,4	5	1,5	5	SDM . 1204 ..
	M4002-085-B27-06-02	62	85	27	50		2	11,4	6	1,4	6	SDM . 1204 ..
	M4002-085-B27-08-02	62	85	27	50		2	11,4	8	1,5	8	SDM . 1204 ..
	M4002-100-B32-07-02	77	100	32	60		2	11,4	7	2,6	7	SDM . 1204 ..
	M4002-100-B32-09-02	77	100	32	60		2	11,4	9	2,6	9	SDM . 1204 ..
M4002-125-B40-08-02	102	125	40	60		2	11,4	8	3,0	8	SDM . 1204 ..	

* Measured using SDM.06T204, SDM.09T308, SDM.120408
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	SDM . 06T2 ..	SDM . 09T3 ..	SDM . 1204 ..
Clamping screw for indexable insert Tightening torque	FS2084 (Torx 7IP) 0,9 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

Type	SDM . 06T2 ..	SDM . 09T3 ..	SDM . 1204 ..
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2011 (Torx 7IP)	FS2268 (Torx 10IP)	FS2014 (Torx 15IP)
Screwdriver	FS2088 (Torx 7IP)	FS2267 (Torx 10IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K				S			
			HC			HC			HC				HC			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
SDMT06T2ZDR-D57	0,4	1,2	⊗	⊗	⊗	⊗	⊗	⊗								⊗
SDMT09T3ZDR-D57	0,8	1,2	⊗	⊗	⊗	⊗	⊗	⊗								⊗
SDMT1204ZDR-D57	0,8	1,8	⊗	⊗	⊗	⊗	⊗	⊗								⊗
SDMT06T204-D57	0,4		⊗	⊗	⊗	⊗	⊗	⊗		⊗	⊗	⊗	⊗	⊗	⊗	⊗
SDMT06T204-F57	0,4		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
SDMT06T212-F57	1,2		⊗	⊗	⊗	⊗	⊗	⊗				⊗	⊗	⊗	⊗	⊗
SDMW06T204-A57	0,4		⊗	⊗	⊗	⊗	⊗	⊗			⊗	⊗	⊗	⊗	⊗	⊗
SDMT09T308-D57	0,8		⊗	⊗	⊗	⊗	⊗	⊗		⊗	⊗	⊗	⊗	⊗	⊗	⊗
SDMT09T308-F57	0,8		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
SDMT09T320-F57	2		⊗	⊗	⊗	⊗	⊗	⊗				⊗	⊗	⊗	⊗	⊗
SDMW09T308-A57	0,8		⊗	⊗	⊗	⊗	⊗	⊗			⊗	⊗	⊗	⊗	⊗	⊗
SDMT120408-D57	0,8		⊗	⊗	⊗	⊗	⊗	⊗		⊗	⊗	⊗	⊗	⊗	⊗	⊗
SDMT120408-F57	0,8		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
SDMT120425-F57	2,5		⊗	⊗	⊗	⊗	⊗	⊗				⊗	⊗	⊗	⊗	⊗
SDMW120408-A57	0,8		⊗	⊗	⊗	⊗	⊗	⊗			⊗	⊗	⊗	⊗	⊗	⊗

For SD..120425 indexable inserts, the circumference of the body must be reworked.

HC = Coated carbide

$$R_{(body)} = r_{(indexable\ insert)}$$

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

Primary application

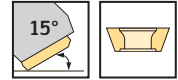
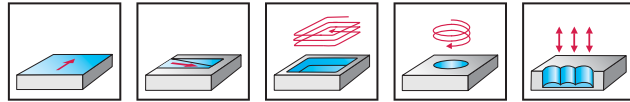
Other application

High-feed face milling cutters

M4002 inch



– Four cutting edges per indexable insert



M4002	P	M	K	N	S	H	O
	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	D _a * Inch	d ₁ Inch	l ₄ Inch	l ₁ Inch	L _c Inch	a _r Inch	Z	lbs	No. of indexable inserts	Type
ScrewFit 	M4002.019-T18-02-01	0,291	0,750	0,728	1,181		0,039	0,224	2	0,1	2	SDM . 06T2 ..
	M4002.026-T22-02-01,5	0,339	1,000	0,866	1,575		0,059	0,331	2	0,0	2	SDM . 09T3 ..
	M4002.026-T22-03-01	0,543	1,000	0,866	1,378		0,039	0,224	3	0,2	3	SDM . 06T2 ..
	M4002.031-T28-03-01,5	0,593	1,250	1,102	1,575		0,059	0,331	3	0,4	3	SDM . 09T3 ..
	M4002.031-T28-04-01	0,795	1,250	1,102	1,575		0,039	0,224	4	0,5	4	SDM . 06T2 ..
	M4002.038-T36-04-01,5	0,843	1,500	1,417	1,575		0,059	0,331	4	0,6	4	SDM . 09T3 ..
	M4002.038-T36-05-01	1,043	1,500	1,417	1,575		0,039	0,224	5	0,8	5	SDM . 06T2 ..
Parallel shank 	M4002.019-A19-02-01	0,291	0,750	0,750	1,181	7,874	0,039	0,224	2	0,9	2	SDM . 06T2 ..
	M4002.026-A26-03-01	0,543	1,000	1,000	1,378	7,874	0,039	0,224	3	1,7	3	
	M4002.031-A31-04-01	0,795	1,250	1,250	1,575	9,843	0,039	0,224	4	3,2	4	
Parallel bore DIN 138 transverse keyway 	M4002.038-B13-05-01	1,043	1,500	0,500	1,378		0,039	0,224	5	0,4	5	SDM . 06T2 ..
	M4002.051-B19-04-02	1,094	2,000	0,750	1,575		0,079	0,449	4	0,8	4	SDM . 1204 ..
	M4002.051-B19-05-01,5	1,337	2,000	0,750	1,575		0,059	0,331	5	0,8	5	SDM . 09T3 ..
	M4002.051-B19-07-01	1,543	2,000	0,750	1,575		0,039	0,224	7	0,8	7	SDM . 06T2 ..
	M4002.064-B19-05-02	1,594	2,500	0,750	1,969		0,079	0,449	5	1,3	5	SDM . 1204 ..
	M4002.064-B19-06-01,5	1,843	2,500	0,750	1,969		0,059	0,331	6	1,8	6	SDM . 09T3 ..
	M4002.064-B26-08-01	2,043	2,500	1,000	1,969		0,039	0,224	8	1,7	8	SDM . 06T2 ..
	M4002.076-B26-06-02	2,094	3,000	1,000	1,969		0,079	0,449	6	2,6	6	SDM . 1204 ..
M4002.102-B38-07-02	3,094	4,000	1,500	2,480		0,079	0,449	7	5,8	7		

* Measured using SDM.06T204, SDM.09T308, SDM.120408
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts		SDM . 06T2 ..				SDM . 09T3 ..			SDM . 1204 ..		
		Type D _c [Inch]	0,291–0,795	1,043	1,543	2,043	0,339–0,843	1,337–1,843	1,094–1,594	2,094	3,094
	Clamping screw for indexable insert Tightening torque	FS2084 (Torx 7IP) 0,9 Nm	FS2084 (Torx 7IP) 0,9 Nm	FS2084 (Torx 7IP) 0,9 Nm	FS2084 (Torx 7IP) 0,9 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	
	Clamping screw for arbour-mounted tools		FS1527	FS1523	FS1519		FS1523	FS1523	FS1519	FS1583	

Accessories		SDM . 06T2 ..	SDM . 09T3 ..	SDM . 1204 ..
	Torque screwdriver, analogue Tightening torque	FS2002 0,4–1,2 Nm	FS2004 1,5–5,0 Nm	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2011 (Torx 7IP)	FS2268 (Torx 10IP)	FS2014 (Torx 15IP)
	Screwdriver	FS2088 (Torx 7IP)	FS2267 (Torx 10IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K			S				
			HC	HC	HC	HC	HC	HC	HC	HC	HC	HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S
SDMT06T2ZDR-D57	0,4	1,2	☒	☒	☒	☒	☒	☒	☒		☒	☒	☒	☒	☒	☒
SDMT09T3ZDR-D57	0,8	1,2	☒	☒	☒	☒	☒	☒	☒		☒	☒	☒	☒	☒	☒
SDMT1204ZDR-D57	0,8	1,8	☒	☒	☒	☒	☒	☒	☒		☒	☒	☒	☒	☒	☒
SDMT06T204-D57	0,4		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
SDMT06T204-F57	0,4		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
SDMT06T212-F57	1,2		☒	☒	☒	☒	☒	☒	☒		☒	☒	☒	☒	☒	☒
SDMW06T204-A57	0,4		☒	☒	☒	☒	☒	☒	☒		☒	☒	☒	☒	☒	☒
SDMT09T308-D57	0,8		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
SDMT09T308-F57	0,8		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
SDMT09T320-F57	2		☒	☒	☒	☒	☒	☒	☒		☒	☒	☒	☒	☒	☒
SDMW09T308-A57	0,8		☒	☒	☒	☒	☒	☒	☒		☒	☒	☒	☒	☒	☒
SDMT120408-D57	0,8		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
SDMT120408-F57	0,8		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
SDMT120425-F57	2,5		☒	☒	☒	☒	☒	☒	☒		☒	☒	☒	☒	☒	☒
SDMW120408-A57	0,8		☒	☒	☒	☒	☒	☒	☒		☒	☒	☒	☒	☒	☒

For SD..120425 indexable inserts, the circumference of the body must be reworked.

HC = Coated carbide

R_(body) = r_(indexable insert)

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●● Primary application

● Other application

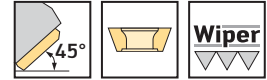
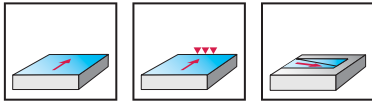
Face milling cutters

M4003 mm

SD .. 09T3AZN



– Four cutting edges per indexable insert



	P	M	K	N	S	H	O
M4003	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel shank 	M4003-020-A20-02-4.5	20	20	35	110	4,5	2	0,3	2	SD .. 09T3AZN SDHX09T3AZR
	M4003-025-A25-03-4.5	25	25	35	110	4,5	3	0,5	3	
	M4003-032-A32-04-4.5	32	32	35	110	4,5	4	0,7	4	
Parallel bore DIN 138 transverse keyway 	M4003-032-B16-04-4.5	32	16	40		4,5	4	0,3	4	SD .. 09T3AZN SDHX09T3AZR
	M4003-032-B16-05-4.5	32	16	40		4,5	5	0,3	5	
	M4003-040-B16-04-4.5	40	16	40		4,5	4	0,4	4	
	M4003-040-B16-06-4.5	40	16	40		4,5	6	0,3	6	
	M4003-050-B22-06-4.5	50	22	40		4,5	6	0,5	6	
	M4003-050-B22-08-4.5	50	22	40		4,5	8	0,5	8	
	M4003-063-B22-07-4.5	63	22	40		4,5	7	0,7	7	
	M4003-063-B22-10-4.5	63	22	40		4,5	10	0,7	10	
	M4003-080-B27-08-4.5	80	27	40		4,5	8	1,3	8	
	M4003-080-B27-12-4.5	80	27	50		4,5	12	1,1	12	
	M4003-100-B32-09-4.5	100	32	50		4,5	9	2,0	9	
M4003-100-B32-14-4.5	100	32	50		4,5	14	2,0	14		

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		20–100
	Clamping screw for indexable insert Tightening torque	FS2266 (Torx 10IP) 2,0 Nm

Accessories

D _c [mm]		20–100
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2268 (Torx 10IP)
	Screwdriver	FS2267 (Torx 10IP)

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S			H	O	
			HC				HC			HC				HC	HW	HC			HC	HC	
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15
SDHX09T3AZR-A88		5,6							⊕											⊕	⊕
SDGT09T3AZN-F57	0,3	1,4	⊕	⊕	⊕	⊕			⊕	⊕	⊕	⊕	⊕				⊕		⊕		
SDGT09T3AZN-G77	0,3	1,2			⊕			⊕											⊕		
SDHT09T3AZN-G88	0,3	1,2												⊕	⊕						
SDMT09T3AZN-D57	0,3	1,2	⊕	⊕	⊕	⊕			⊕	⊕	⊕	⊕	⊕				⊕		⊕		
SDMT09T3AZN-F57	0,3	1,4	⊕	⊕	⊕	⊕			⊕	⊕	⊕	⊕	⊕					⊕	⊕		
SDMW09T3AZN-A57	0,3	1,2	⊕	⊕					⊕	⊕	⊕	⊕	⊕								

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

•• Primary application

• Other application

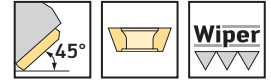
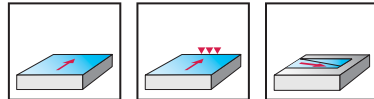
Face milling cutters

M4003

SD .. 1204AZN



– Four cutting edges per indexable insert



	P	M	K	N	S	H	O
M4003	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel shank 	M4003-025-A25-02-6.5	25	25	35	110	6,5	2	0,5	2	SD .. 1204AZN SDHX1204AZR
	M4003-032-A32-03-6.5	32	32	35	110	6,5	3	0,7	3	
	M4003-040-A32-04-6.5	40	32	35	110	6,5	4	0,9	4	
Parallel bore DIN 138 transverse keyway 	M4003-040-B16-03-6.5	40	16	40		6,5	3	0,4	3	SD .. 1204AZN SDHX1204AZR
	M4003-040-B16-04-6.5	40	16	40		6,5	4	0,4	4	
	M4003-050-B22-04-6.5	50	22	40		6,5	4	0,5	4	
	M4003-050-B22-05-6.5	50	22	40		6,5	5	0,5	5	
	M4003-063-B22-05-6.5	63	22	40		6,5	5	0,7	5	
	M4003-063-B22-07-6.5	63	22	40		6,5	7	0,6	7	
	M4003-080-B27-06-6.5	80	27	50		6,5	6	1,2	6	
	M4003-080-B27-09-6.5	80	27	50		6,5	9	1,3	9	
	M4003-100-B32-07-6.5	100	32	50		6,5	7	2,1	7	
	M4003-100-B32-11-6.5	100	32	50		6,5	11	2,0	11	
Parallel bore DIN 138 transverse keyway 	M4003-125-B40-08-6.5	125	40	63		6,5	8	3,4	8	SD .. 1204AZN SDHX1204AZR
	M4003-125-B40-13-6.5	125	40	63		6,5	13	3,4	13	
	M4003-160-B40-09-6.5	160	40/40 B	63		6,5	9	4,3	9	
	M4003-160-B40-15-6.5	160	40/40 B	63		6,5	15	4,3	15	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	D _c [mm]	25–160
	Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

	D _c [mm]	25–125	160
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)	FS1485 (Torx 15IP)
	Gasket		O-R 96X4
	Sealing disc set (incl. gasket and screws)		FS936 COMPLETE SET

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S			H	O	
			HC				HC			HC				HC	HW	HC			HC	HC	
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15
SDHX1204AZR-A88		7,5							☺											☺	☺
SDGT1204AZN-F57	0,3	1,8	☺	☺					☺		☺	☺									
SDGT1204AZN-G77	0,3	1,4			☺				☺												
SDHT1204AZN-G88	0,3	1,4													☺	☺					
SDMT1204AZN-D57	0,3	1,4	☺	☺					☺	☺	☺	☺									
SDMT1204AZN-F57	0,3	1,8	☺	☺					☺	☺	☺	☺									
SDMW1204AZN-A57	0,3	1,4	☺	☺					☺		☺	☺									

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

•• Primary application

• Other application

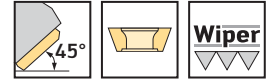
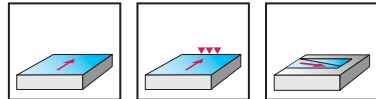
Face milling cutters

M4003 inch

SD .. 09T3AZN



– Four cutting edges per indexable insert



	P	M	K	N	S	H	O
M4003	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel shank 	M4003.019-A19-02-4.5	0,750	0,750	1,378	4,331	0,177	2	0,6	2	SD .. 09T3AZN SDHX09T3AZR
	M4003.026-A26-03-4.5	1,000	1,000	1,378	4,331	0,177	3	1,1	3	
	M4003.031-A31-04-4.5	1,250	1,250	1,378	4,331	0,177	4	1,6	4	
Parallel bore DIN 138 transverse keyway 	M4003.031-B13-04-4.5	1,250	0,500	1,575		0,177	4	0,5	4	SD .. 09T3AZN SDHX09T3AZR
	M4003.038-B19-04-4.5	1,500	0,500	1,575		0,177	4	0,7	4	
	M4003.051-B19-06-4.5	2,000	0,750	1,575		0,177	6	1,1	6	
	M4003.064-B26-07-4.5	2,500	1,000	1,969		0,177	7	1,9	7	
	M4003.076-B26-08-4.5	3,000	1,000	1,969		0,177	8	2,6	8	
	M4003.102-B38-09-4.5	4,000	1,500	2,480		0,177	9	6,4	9	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		0,750–1,000	1,250	1,500–2,000	2,500–3,000	4,000
	Clamping screw for indexable insert Tightening torque	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm
	Clamping screw for arbour-mounted tools		FS1597	FS1523	FS1519	FS1583

Accessories

D _c [Inch]		0,750–4,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2268 (Torx 10IP)
	Screwdriver	FS2267 (Torx 10IP)

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S			H	O	
			HC				HC			HC				HC	HW	HC			HC	HC	
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15
 SDHX09T3AZR-A88		5,6																			
 SDGT09T3AZN-F57	0,3	1,4	☺	☺	☺	☺									☺						
SDGT09T3AZN-G77	0,3	1,2																			
SDHT09T3AZN-G88	0,3	1,2											☺	☺							
SDMT09T3AZN-D57	0,3	1,2	☺	☺	☺	☺															
SDMT09T3AZN-F57	0,3	1,4	☺	☺	☺	☺															
SDMW09T3AZN-A57	0,3	1,2	☺	☺																	

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●● Primary application

● Other application

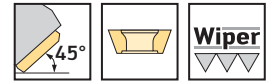
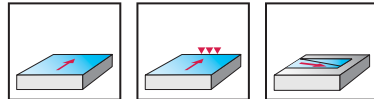
Face milling cutters

M4003 inch

SD .. 1204AZN



– Four cutting edges per indexable insert



	P	M	K	N	S	H	O
M4003	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel shank 	M4003.026-A26-02-6.5	1,000	1,000	1,378	4,331	0,256	2	1,1	2	SD .. 1204AZN SDHX1204AZR
	M4003.031-A31-03-6.5	1,250	1,250	1,378	4,331	0,256	3	1,6	3	
	M4003.038-A31-04-6.5	1,500	1,250	1,378	4,331	0,256	4	1,8	4	
Parallel bore DIN 138 transverse keyway 	M4003.038-B19-03-6.5	1,500	0,500	1,575		0,256	3	0,7	3	SD .. 1204AZN SDHX1204AZR
	M4003.051-B19-04-6.5	2,000	0,750	1,575		0,256	4	1,1	4	
	M4003.064-B26-05-6.5	2,500	1,000	1,969		0,256	5	1,9	5	
	M4003.076-B26-06-6.5	3,000	1,000	1,969		0,256	6	0,1	6	
	M4003.102-B38-07-6.5	4,000	1,500	2,480		0,256	7	6,9	7	
	M4003.127-B38-08-6.5	5,000	1,500	2,480		0,256	8	8,3	8	
	M4003.152-B38-09-6.5	6,000	1,500	2,480		0,256	9	11,4	9	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		1,000–1,250	1,500–2,000	2,500–3,000	4,000–6,000
	Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
	Clamping screw for arbour-mounted tools		FS1523	FS1519	FS1583

Accessories

D _c [Inch]		1,000–6,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S			H	O	
			HC				HC			HC				HC	HW	HC			HC	HC	
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15
 SDHX1204AZR-A88		7,5							☺											☺	☺
 SDGT1204AZN-F57	0,3	1,8	☺	☺		☺	☺		☺		☺	☺				☺					
SDGT1204AZN-G77	0,3	1,4				☺													☺		
SDHT1204AZN-G88	0,3	1,4												☺	☺						
SDMT1204AZN-D57	0,3	1,4	☺	☺		☺	☺		☺	☺	☺	☺				☺					
SDMT1204AZN-F57	0,3	1,8	☺	☺		☺		☺			☺	☺						☺	☺		
SDMW1204AZN-A57	0,3	1,4	☺	☺					☺		☺	☺									

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

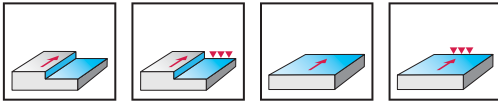
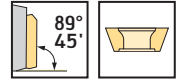
•• Primary application

• Other application

Shoulder milling cutters

F2010 mm
SD .. 09T3 ..


- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	★ F2010.B.080.Z06.08.R756M	80	27	50	8,4	6	1,3	6	SD .. 09T3 ..
Parallel bore DIN 138 transverse keyway 	★ F2010.B.100.Z07.08.R756M	100	32	50	8,4	7	1,9	7	SD .. 09T3 ..
	★ F2010.B.125.Z08.08.R756M	125	40	63	8,4	8	3,6	8	
Parallel bore DIN 138 transverse keyway 	★ F2010.B.160.Z10.08.R756M	160	40/40 B	63	8,4	10	5,6	10	SD .. 09T3 ..
	★ F2010.B.200.Z12.08.R756M	200	60/50 B	63	8,4	12	8,3	12	
	★ F2010.B.250.Z12.08.R756M	250	60/50 B	63	8,4	12	14,8	12	
	★ F2010.B.250.Z16.08.R756M	250	60/50 B	63	8,4	16	14,6	16	
Parallel bore DIN 138 transverse keyway 	★ F2010.B.315.Z14.08.R756M	315	60/50-60 BB	80	8,4	14	26,3	14	SD .. 09T3 ..
	★ F2010.B.315.Z18.08.R756M	315	60/50-60 BB	80	8,4	18	26,2	18	

Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range

Assembly parts

		D _c [mm]	80–315
	Cartridge for tool body		FR756M
	Clamping screw for cartridge Tightening torque		FS247 (SW 4) 8,0 Nm
	Clamping screw for indexable insert Tightening torque		FS2266 (Torx 10IP) 2,0 Nm
	Adjusting pin		FS303 (Torx 20)

Accessories

		D _c [mm]	80–315
	Torque screwdriver, analogue Tightening torque		FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver		FS2268 (Torx 10IP)
	Torque T-handle Tightening torque		FS2041 4,5–14 Nm
	Interchangeable blade for cartridge		FS2051 (SW 4)
	Screwdriver for indexable insert		FS2267 (Torx 10IP)
	Screwdriver for adjusting pin		FS228 (Torx 20)
	ISO 2936 Allen key for cartridge		ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S		
			HC				HC			HC				HC	HW	HC		
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X
SDHT09T304-G88	0,4																	
SDHT09T308-G88	0,8																	
SDGT09T3PDR-D57	0,8	1,2	☺	☺	☺	☺	☺	☺					☺	☺			☺	☺
SDMT09T308-D51	0,8		☺	☺	☺	☺			☺									☺
SDMT09T308-D57	0,8		☺	☺	☺	☺			☺									☺
SDMT09T308-F57	0,8		☺	☺	☺	☺			☺									☺
SDMT09T320-F57	2		☺	☺	☺	☺												☺
SDMW09T308-A57	0,8		☺	☺	☺	☺												☺

SD..09T3.. : If the corner radius is $r > 0.8$ mm, the corner area of the cartridge must be reworked.
 $R_{(body)} = r_{(indexable\ insert)}$

HC = Coated carbide
 HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

•• Primary application

• Other application

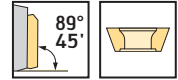
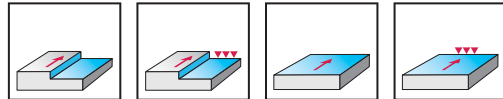
Shoulder milling cutters

F2010 inch

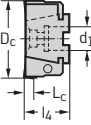
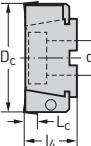
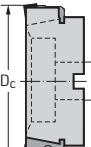
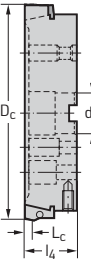
SD .. 09T3 ..



- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.076.Z06.08R756M	3,000	1,000	2,000	0,331	6	3,3	6	SD .. 09T3 ..
	★ F2010.UB.102.Z07.08R756M	4,000	1.250	2,000	0,331	7	5,7	7	
	★ F2010.UB.127.Z08.08R756M	5,000	1.500	2,500	0,331	8	7,5	8	
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.152.Z10.08R756M	6,000	1.500	2,500	0,331	10	14,6	10	SD .. 09T3 ..
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.203.Z12.08R756M	8,000	2.50/4.0	2,500	0,331	12	21,4	12	SD .. 09T3 ..
	★ F2010.UB.254.Z12.08R756M	10,000	2.50/4.0	2,500	0,331	12	36,4	12	
	★ F2010.UB.254.Z16.08R756M	10,000	2.50/4.0	2,500	0,331	16	36,4	16	
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.305.Z18.08R756M	12,000	2.50/4.0/7.0	2,500	0,331	18	45,6	18	SD .. 09T3 ..

Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range

Assembly parts

D _c [Inch]		3,000	4,000	5,000–6,000	8,000–12,000
	Cartridge for tool body	FR756M	FR756M	FR756M	FR756M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm
	Clamping screw for indexable insert Tightening torque	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm
	Adjusting pin	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)
	Clamping screw for arbour-mounted tools	FS1519	FS1565	FS1566	

Accessories

D _c [Inch]		3,000–12,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2268 (Torx 10IP)
	Torque T-handle Tightening torque	FS2042 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS2267 (Torx 10IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S
SDHT09T304-G88	0,4																		
SDHT09T308-G88	0,8																		
SDGT09T3PDR-D57	0,8	1,2	☺	☺	☺	☺	☺	☺							☺	☺			☺
SDMT09T308-D51	0,8		☺	☺	☺	☺													☺
SDMT09T308-D57	0,8		☺	☺	☺	☺	☺												☺
SDMT09T308-F57	0,8		☺	☺	☺	☺			☺										☺
SDMT09T320-F57	2		☺	☺	☺	☺													☺
SDMW09T308-A57	0,8		☺	☺	☺														☺

SD..09T3... : If the corner radius is r > 0.8 mm, the corner area of the cartridge must be reworked.
R_(body) = r_(indexable insert)

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●● Primary application

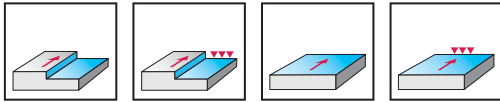
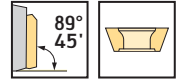
● Other application

C2

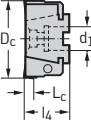
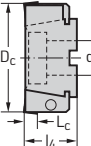
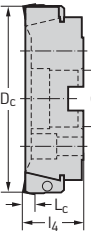
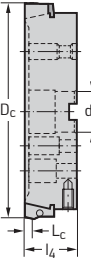
Shoulder milling cutters

F2010 mm
SD .. 1204 ..


- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type	
Parallel bore DIN 138 transverse keyway 	★ F2010.B.080.Z06.08.R757M	80	27	50	11,6	6	1,3	6	SD .. 1204 ..	
Parallel bore DIN 138 transverse keyway 	★ F2010.B.100.Z07.08.R757M	100	32	50	11,6	7	1,9	7	SD .. 1204 ..	
	★ F2010.B.125.Z08.08.R757M	125	40	63	11,6	8	3,6	8	SD .. 1204 ..	
Parallel bore DIN 138 transverse keyway 	★ F2010.B.160.Z10.08.R757M	160	40/40 B	63	11,6	10	5,6	10	SD .. 1204 ..	
	★ F2010.B.200.Z12.08.R757M	200	60/50 B	63	11,6	12	8,3	12		
	★ F2010.B.250.Z12.08.R757M	250	60/50 B	63	11,6	12	14,8	12		
	★ F2010.B.250.Z16.08.R757M	250	60/50 B	63	11,6	16	14,6	16		
Parallel bore DIN 138 transverse keyway 	★ F2010.B.315.Z14.08.R757M	315	60/50-60 BB	80	11,6	14	26,3	14	SD .. 1204 ..	
	★ F2010.B.315.Z18.08.R757M	315	60/50-60 BB	80	11,6	18	26,2	18		

Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range

Assembly parts

		D _c [mm]	80–315
	Cartridge for tool body		FR757M
	Clamping screw for cartridge Tightening torque		FS247 (SW 4) 8,0 Nm
	Clamping screw for indexable insert Tightening torque		FS1453 (Torx 15IP) 3,5 Nm
	Adjusting pin		FS303 (Torx 20)

Accessories

		D _c [mm]	80–315
	Torque screwdriver, analogue Tightening torque		FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver		FS2014 (Torx 15IP)
	Torque T-handle Tightening torque		FS2041 4,5–14 Nm
	Interchangeable blade for cartridge		FS2051 (SW 4)
	Screwdriver for indexable insert		FS1485 (Torx 15IP)
	Screwdriver for adjusting pin		FS228 (Torx 20)
	ISO 2936 Allen key for cartridge		ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S		
			HC				HC			HC				HC	HW	HC		
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X
SDHT120408-G88	0,8																	
SDGT1204PDR-D57	0,8	1,6	☺	☺	☺	☺	☺	☺			☺	☺	☺					☺
SDMT120408-D51	0,8		☺	☺	☺	☺			☺		☺	☺	☺					☺
SDMT120408-D57	0,8		☺	☺	☺	☺			☺		☺	☺	☺					☺
SDMT120408-F57	0,8		☺	☺	☺	☺			☺		☺	☺	☺					☺
SDMT120425-F57	2,5		☺	☺	☺	☺					☺	☺	☺					☺
SDMW120408-A57	0,8		☺	☺	☺	☺					☺	☺	☺					☺

SD..1204.. : If the corner radius is $r > 0.8$ mm, the corner area of the cartridge must be reworked.
 $R_{(body)} = r_{(indexable\ insert)}$

HC = Coated carbide
 HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

••
Primary application

•
Other application

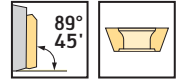
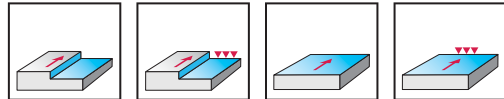
Shoulder milling cutters

F2010 inch

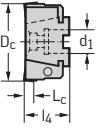
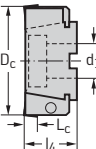
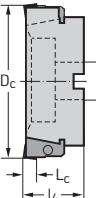
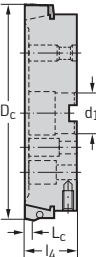
SD .. 1204 ..



- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type	
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.076.Z06.08R757M	3,000	1,000	2,000	0,457	6	3,3	6	SD .. 1204 ..	
	★ F2010.UB.102.Z07.08R757M	4,000	1.250	2,000	0,457	7	5,7	7		
	★ F2010.UB.127.Z08.08R757M	5,000	1.500	2,500	0,457	8	7,5	8		
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.152.Z10.08R757M	6,000	1.500	2,500	0,457	10	14,6	10	SD .. 1204 ..	
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.203.Z12.08R757M	8,000	2.50/4.0	2,500	0,457	12	21,4	12	SD .. 1204 ..	
	★ F2010.UB.254.Z12.08R757M	10,000	2.50/4.0	2,500	0,457	12	36,4	12		
	★ F2010.UB.254.Z16.08R757M	10,000	2.50/4.0	2,500	0,457	16	36,4	16		
Parallel bore DIN 138 transverse keyway 	★ F2010.UB.305.Z18.08R757M	12,000	2.50/4.0/7.0	2,500	0,457	18	45,6	18	SD .. 1204 ..	

Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range

Assembly parts

D _c [Inch]		3,000	4,000	5,000–6,000	8,000–12,000
	Cartridge for tool body	FR757M	FR757M	FR757M	FR757M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm
	Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
	Adjusting pin	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)
	Clamping screw for arbour-mounted tools	FS1519	FS1565	FS1566	

Accessories

D _c [Inch]		3,000–12,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2042 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S			
			HC	HC	HC	HC	HC	HC	HC	HC	HC	HW	HC	HC	HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S
SDHT120408-G88	0.8																		
SDGT1204PDR-D57	0.8	1.6	☺	☺	☺	☺	☺		☺			☺	☺	☺	☺		☺		☺
SDMT120408-D51	0.8		☺	☺	☺	☺			☺			☺	☺	☺					☺
SDMT120408-D57	0.8		☺	☺	☺	☺			☺			☺	☺	☺					☺
SDMT120408-F57	0.8		☺	☺	☺	☺			☺			☺	☺	☺					☺
SDMT120425-F57	2.5		☺	☺	☺	☺			☺			☺	☺	☺					☺
SDMW120408-A57	0.8		☺	☺	☺	☺			☺			☺	☺	☺					☺

SD..1204.. : If the corner radius is $r > 0.8$ mm, the corner area of the cartridge must be reworked.
 $R_{(body)} = r_{(indexable\ insert)}$

HC = Coated carbide
 HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

•• Primary application

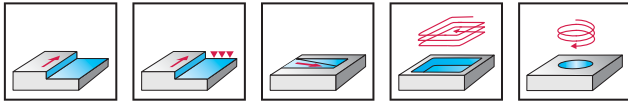
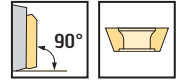
• Other application

C2

Ramping milling cutter

M2331 mm


- For pocket machining
- Two cutting edges per indexable insert



	P	M	K	N	S	H	O
M2331				●●			●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁₆ mm	L _c mm	Z	kg	No. of indexable inserts	Type
HSK DIN 69893-1 A 	★ M2331-032-H80F-02-15-MA	32	HSK-A80/A63	110	65	15	2	1,1	2	ZDGT15A4 .. R
	★ M2331-040-H80F-02-20-MA	40	HSK-A80/A63	110	75	20	2	1,3	2	ZDGT20A5 .. R
	★ M2331-040-H80F-03-15-MA	40	HSK-A80/A63	110	75	15	3	0,3	3	ZDGT15A4 .. R
	★ M2331-050-H80F-03-20-MA	50	HSK-A80/A63	110	86	20	3	1,5	3	ZDGT20A5 .. R
	★ M2331-050-H80F-04-15-MA	50	HSK-A80/A63	110	86	15	4	1,5	4	ZDGT15A4 .. R
Parallel bore DIN 138 transverse keyway 	★ M2331-040-B16-03-15	40	16	50		15	3	0,3	3	ZDGT15A4 .. R
	★ M2331-050-B22-03-20	50	22	60		20	3	0,5	3	ZDGT20A5 .. R
	★ M2331-050-B22-04-15	50	22	50		15	4	0,4	4	ZDGT15A4 .. R
	★ M2331-050-B22-02-20	50	22	60		20	2	0,5	2	ZDGT20A5 .. R
	★ M2331-050-B22-02-15	50	22	50		15	2	0,4	2	ZDGT15A4 .. R
	★ M2331-050-B22-03-15	50	22	50		15	3	0,4	3	

Pre-balanced tools

For information on high-speed applications, see "Technical information/Information on high-speed applications"

Tools with HSK have a residual imbalance of 3 gmm – with chip hole, without chip

M2331-...-MA special interface for Makino (similar to HSK-A DIN 69893)

For tools with locating bores, use longer tightening screws in accordance with ISO 4762, see "Assembly parts and accessories/Other"

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	ZDGT15A4 .. R	ZDGT20A5 .. R
Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS2281 (Torx 20IP) 5,0 Nm

Accessories

Type	ZDGT15A4 .. R	ZDGT20A5 .. R
Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
Screwdriver	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Indexable inserts

Designation	r mm	b mm	P		M		K		S		O
			HC		HC		HC		HC		HF
			WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35S	WSM35S	WSP45S
ZDGT15A404R-K85	0,4	1,2									
ZDGT15A408R-K85	0,8	1,2									
ZDGT15A412R-K85	1,2	1,2									
ZDGT15A416R-K85	1,6	1,2									
ZDGT15A420R-K85	2	1,2									
ZDGT15A425R-K85	2,5	1,2									
ZDGT15A430R-K85	3	1,2									
ZDGT15A440R-K85	4	1,2									
ZDGT20A508R-K85	0,8	1,2									
ZDGT20A512R-K85	1,2	1,2									
ZDGT20A516R-K85	1,6	1,2									
ZDGT20A520R-K85	2	1,2									
ZDGT20A530R-K85	3	1,2									
ZDGT20A540R-K85	4	1,2									
ZDGT20A550R-K85	5	1,2									
ZDGT20A560R-K85	6	1,2									
ZDGT20A564R-K85	6,4	1,2									

If the corner radius $r = 2.0$ mm or above, the corner area of the body must be reworked:
 R (body) = r (indexable insert) - 1 mm

HC = Coated carbide
 HF = Uncoated fine-grained carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

Primary application

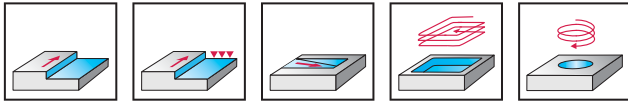
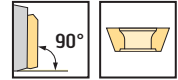
Other application

Ramping milling cutter

M2331 inch



- For pocket machining
- Two cutting edges per indexable insert



	P	M	K	N	S	H	O
M2331				●●			●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁₆ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
ScrewFit 	★ M2331.051-T45-03-15	2,000	T45	2,000		0,591	3	0,9	3	ZDGT15A4 .. R
	★ M2331.051-T45-03-20	2,000	T45	2,000		0,787	3	0,9	3	ZDGT20A5 .. R
HSK DIN 69893-1 A 	★ M2331.038-H80F-03-15-MA	1,500	80,000	4,331	3,346	0,591	3	3,4	3	ZDGT15A4 .. R
	★ M2331.051-H80F-03-20-MA	2,000	80,000	4,331	3,346	0,787	3	3,4	3	ZDGT20A5 .. R
	★ M2331.051-H80F-04-15-MA	2,000	80,000	4,331	3,346	0,591	4	3,4	4	ZDGT15A4 .. R
Parallel bore DIN 138 transverse keyway 	★ M2331.051-B19-03-15	2,000	0,750	2,000		0,591	3	0,9	3	ZDGT15A4 .. R
	★ M2331.051-B19-02-20	2,000	0,750	2,000		0,787	2	0,9	2	ZDGT20A5 .. R
	★ M2331.051-B19-02-15	2,000	0,750	2,000		0,591	2	0,9	2	ZDGT15A4 .. R

Pre-balanced tools

For information on high-speed applications, see "Technical information/Information on high-speed applications"

Tools with HSK have a residual imbalance of 3 gmm – with chip hole, without chip

M2331-...-MA special interface for Makino (similar to HSK-A DIN 69893)

For tools with locating bores, use longer tightening screws in accordance with ISO 4762, see "Assembly parts and accessories/Other"

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Type	ZDGT15A4 .. R 1,500	ZDGT15A4 .. R 2,000	ZDGT20A5 .. R 2,000
		D _c [Inch]			
	Clamping screw for indexable insert		FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS2281 (Torx 20IP) 5,0 Nm
	Clamping screw for arbour-mounted tools			FS1338	FS1338

Accessories		Type	ZDGT15A4 .. R	ZDGT20A5 .. R
	Torque screwdriver, analogue	Tightening torque	FS2004 1,5–5,0 Nm	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital	Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
	Interchangeable blade		FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
	Screwdriver		FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Indexable inserts

Designation	r mm	b mm	P		M		K		S		O
			HC		HC		HC		HC		HF
			WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35S	WSM35S	WSP45S
ZDGT15A404R-K85	0,4	1,2									☞
ZDGT15A408R-K85	0,8	1,2									☞
ZDGT15A412R-K85	1,2	1,2									☞
ZDGT15A416R-K85	1,6	1,2									☞
ZDGT15A420R-K85	2	1,2									☞
ZDGT15A425R-K85	2,5	1,2									☞
ZDGT15A430R-K85	3	1,2									☞
ZDGT15A440R-K85	4	1,2									☞
ZDGT20A508R-K85	0,8	1,2									☞
ZDGT20A512R-K85	1,2	1,2									☞
ZDGT20A516R-K85	1,6	1,2									☞
ZDGT20A520R-K85	2	1,2									☞
ZDGT20A530R-K85	3	1,2									☞
ZDGT20A540R-K85	4	1,2									☞
ZDGT20A550R-K85	5	1,2									☞
ZDGT20A560R-K85	6	1,2									☞
ZDGT20A564R-K85	6,4	1,2									☞

If the corner radius $r = 2,0$ mm or above, the corner area of the body must be reworked:
 $R(\text{body}) = r(\text{indexable insert}) - 1$ mm

HC = Coated carbide
 HF = Uncoated fine-grained carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●●
Primary application

●
Other application

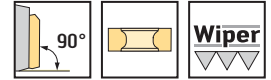
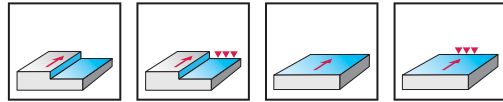
Close pitch cutter

M2136 mm

SNEF120408R



– Eight cutting edges per indexable insert



	P	M	K	N	S	H	O
M2136			●●				

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M2136-050-B22-06-06	50	22	50	6,5	6	0,56	6	SNEF120408R SNEX1204PN ..
	M2136-063-B22-08-06	63	22	50	6,5	8	0,8	8	
	M2136-080-B27-12-06	80	27	50	6,5	12	1,23	12	
	M2136-100-B32-16-06	100	32	50	6,5	16	1,79	16	
	M2136-125-B40-20-06	125	40	63	6,5	20	3,42	20	
Parallel bore DIN 138 transverse keyway 	M2136-160-B40-24-06	160	40/40 B	63	6,5	24	6,05	24	SNEF120408R SNEX1204PN ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		50–160
	Clamping wedge	FK377
	Clamping screw for clamping wedge	FS2185

Accessories

D _c [mm]		50–160
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2268 (Torx 10IP)
	Screwdriver	FS2267 (Torx 10IP)

Indexable inserts

Designation	r mm	b mm	P				M		K				N		S		H
			HC				HC		HC				HC	HW	HC	HC	
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S
SNEF120408R-B67	0,8	2,1							☺	☺	☺	☺					
SNEF120408R-D67	0,8	2,1						☺	☺	☺	☺						
SNEX1204PNN-A27	1,2	10,3						☺									☺
SNEX1204PNR-B67	0,8	10,8						☺									☺

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

•• Primary application

• Other application

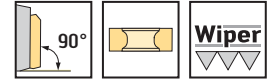
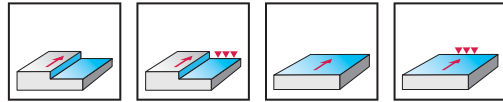
Close pitch cutter

M2136 inch

SNEF120408R



– Eight cutting edges per indexable insert



	P	M	K	N	S	H	O
M2136			●●				

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M2136.051-B19-06-06	2,000	0,750	1,969	0,256	6	1,21	6	SNEF120408R SNEX1204PN ..
	M2136.064-B19-08-06	2,500	0,750	1,969	0,256	8	2,04	8	
	M2136.076-B26-12-06	3,000	1,000	1,969	0,256	12	2,59	12	
	M2136.102-B31-16-06	4,000	1,250	1,969	0,256	16	4,23	16	
	M2136.127-B38-20-06	5,000	1,500	2,480	0,256	20	9,24	20	
	M2136.152-B38-24-06	6,000	1,500	2,480	0,256	24	13,64	24	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		D _c [Inch]	2,000–2,500	3,000	4,000	5,000–6,000
	Clamping wedge		FK377	FK377	FK377	FK377
	Clamping screw for clamping wedge		FS2185	FS2185	FS2185	FS2185
	Clamping screw for arbour-mounted tools		FS1523	FS1519	FS1339	FS1583

Accessories		D _c [Inch]	2,000–6,000
	Torque screwdriver, analogue Tightening torque		FS2002 0,4–1,2 Nm
	Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm
	Interchangeable blade		FS2268 (Torx 10IP)
	Screwdriver		FS2267 (Torx 10IP)

Indexable inserts		r mm	b mm	P		M	K				N		S	H			
Designation				WKP255	WKP356	WKP355	WSP455	WSM355	WSP455	WAK15	WKK255	WKP255	WKP356	WKP355	WXN15	WK10	WSM355
	SNEF120408R-B67	0,8	2,1						☺	☺	☺	☺					
	SNEF120408R-D67	0,8	2,1					☺	☺	☺	☺						
	SNEX1204PNN-A27	1,2	10,3					☺									☺
	SNEX1204PNR-B67	0,8	10,8					☺									☺

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

•• Primary application

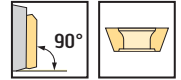
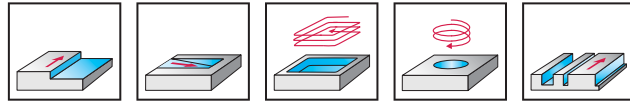
• Other application

Shoulder milling cutters

M4130



– Two cutting edges per indexable insert



	P	M	K	N	S	H	O
M4130	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Shank DIN 1835 B 	M4130-016-W16-02-08	16	16	40	90	8	2	0,1	2	LDM . 08T204R
	M4130-020-W20-03-08	20	20	38	90	8	3	0,2	3	
	M4130-025-W25-04-08	25	25	42	100	8	4	0,3	4	
	M4130-032-W32-04-13	32	32	49	110	13	4	0,6	4	
Parallel bore DIN 138 transverse keyway 	M4130-040-B16-05-13	40	16	40		13	5	0,2	5	LDM . 14T308R
	M4130-050-B22-06-13	50	22	40		13	6	0,3	6	
	M4130-050-B22-05-16	50	22	40		16	5	0,3	5	LDM . 170408R
	M4130-063-B27-06-16	63	27	50		16	6	0,6	6	
	M4130-080-B27-07-16	80	27	50		16	7	0,9	7	
	M4130-100-B32-08-16	100	32	50		16	8	1,7	8	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	LDM . 08T204R	LDM . 14T308R	LDM . 170408R
Clamping screw for indexable insert Tightening torque	FS2084 (Torx 7IP) 0,9 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

Type	LDM . 08T204R	LDM . 14T308R	LDM . 170408R
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2011 (Torx 7IP)	FS2268 (Torx 10IP)	FS2014 (Torx 15IP)
Screwdriver	FS2088 (Torx 7IP)	FS2267 (Torx 10IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P		M		K			S				
			HC		HC		HC			HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S
LDMT08T204R-D51	0,4	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMT08T204R-D57	0,4	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMT08T204R-F57	0,4	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMW08T204R-A57	0,4	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMT14T308R-D51	0,8	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMT14T308R-D57	0,8	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMT14T308R-F57	0,8	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMW14T308R-A57	0,8	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMT170408R-D51	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMT170408R-D57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMT170408R-F57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMW170408R-A57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

•• Primary application

• Other application

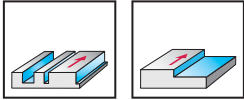
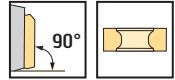
Porcupine milling cutters

M3255 mm

XNHX1306 .. R
Walter BLAXX



- Full effective design
- Two or four cutting edges per indexable insert, tangential arrangement



	P	M	K	N	S	H	O
M3255					●●		

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M3255-050-B22-04-46	50	22	65	46	4	0,5	4 12	XNHX1306 .. R LNHX120604R
	M3255-050-B22-05-46	50	22	65	46	5	0,5	5 15	
	M3255-063-B27-05-46	63	27	70	46	5	1,0	5 15	
	M3255-063-B27-06-46	63	27	70	46	6	1,0	6 18	
	M3255-080-B32-05-58	80	32	85	58	5	2,0	5 25	
	M3255-080-B32-06-58	80	32	85	58	6	2,0	6 24	

For tools with locating bores, use longer tightening screws in accordance with ISO 4762, see "Assembly parts and accessories/Other"
 The FS2250 coolant nozzle must be secured to prevent it from coming loose.
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts

		D _c [mm]	50–80
	Clamping screw for indexable insert		FS2299
	Coolant nozzle		FS2250 (SW 1,5)

Accessories

		D _c [mm]	50–80
	Torque screwdriver, analogue Tightening torque		FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm
	Interchangeable blade		FS2014 (Torx 15IP)
	Screwdriver		FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K			N		S		
			HC			HC			HC			HC	HW	HC		
			WKP25S	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSM45X
LNHX120604R-L65T	0,4															
XNHX130608R-L65T	0,8	2														☒
XNHX130612R-L65T	1,2	2														☒
XNHX130616R-L65T	1,6	2														☒
XNHX130620R-L65T	2	2														☒
XNHX130624R-L65T	2,4	2														☒
XNHX130630R-L65T	3	1,4														☒
XNHX130632R-L65T	3,2	1,3														☒
XNHX130640R-L65T	4	0,5														☒

XNHX1306 . . . indexable inserts can only be used as front inserts.

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

•• Primary application

• Other application

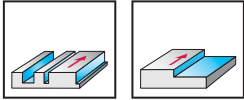
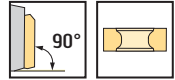
Porcupine milling cutters

M3255 inch

XNHX1306 .. R
Walter BLAXX






- Full effective design
- Two or four cutting edges per indexable insert, tangential arrangement







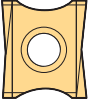

	P	M	K	N	S	H	O
M3255					●●		

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	★ M3255.051-B26-04-57	2,000	1,000	3,375	2,244	4	1,49	4 16	XNHX1306 .. R LNHX120604R
	M3255.051-B19-04-46	2,000	0,750	2,559	1,811	4	1,28	4 12	
	★ M3255.051-B26-05-57	2,000	1,000	3,375	2,244	5	1,47	5 20	
	M3255.051-B19-05-46	2,000	0,750	2,559	1,811	5	1,11	5 15	
	★ M3255.064-B26-05-68	2,500	1,000	3,550	2,677	5	2,72	5 25	
	M3255.064-B26-05-46	2,500	1,000	2,756	1,811	5	2,30	5 15	
	M3255.064-B26-06-46	2,500	1,000	2,756	1,811	6	2,29	6 18	
	★ M3255.076-B31-05-80	3,000	1,250	4,250	3,150	5	5,07	5 30	
	M3255.076-B31-05-58	3,000	1,250	3,346	2,283	5	4,03	5 20	
	★ M3255.076-B31-06-80	3,000	1,250	4,250	3,150	6	5,17	6 36	
	M3255.076-B31-06-58	3,000	1,250	3,346	2,283	6	4,20	6 24	

The FS2250 coolant nozzle must be secured to prevent it from coming loose.
Bodies and assembly parts are included in the scope of delivery.

Assembly parts	D _c [Inch]	2,000		2,500		3,000	
	L _c [Inch]	1,811	2,244	1,811	1,677	2,283	3,150
 Clamping screw for indexable insert		FS2299	FS2299	FS2299	FS2299	FS2299	FS2299
 Coolant nozzle		FS2250 (SW 1.5)	FS2250 (SW 1.5)	FS2250 (SW 1.5)	FS2250 (SW 1.5)	FS2250 (SW 1.5)	FS2250 (SW 1.5)
 Clamping screw for arbour-mounted tools		FS1528	FS1614	FS1614	FS2567	FS1520	FS2568

Accessories	D _c [Inch]	2,000–3,000
 Torque screwdriver, analogue Tightening torque		FS2004 1.5–5.0 Nm
 Torque screwdriver, digital Tightening torque		FS2248 1.0–6.0 Nm
 Interchangeable blade		FS2014 (Torx 15IP)
 Screwdriver		FS1485 (Torx 15IP)


Indexable inserts	Designation	r mm	b mm	P			M			K			N		S			
				HC			HC			HC			HC	HW	HC			
				WKP25S	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S
	LNHX120604R-L65T	0,4																
	XNHX130608R-L65T	0,8	2															
	XNHX130612R-L65T	1,2	2															
	XNHX130616R-L65T	1,6	2															
	XNHX130620R-L65T	2	2															
	XNHX130624R-L65T	2,4	2															
	XNHX130630R-L65T	3	1,4															
	XNHX130632R-L65T	3,2	1,3															
	XNHX130640R-L65T	4	0,5															


XNHX1306 . . . indexable inserts can only be used as front inserts.


HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement


Very good


Good


Moderate

●● Primary application

● Other application

Porcupine milling cutters

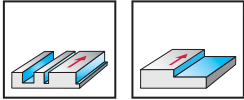
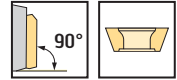
M4258 modular

LDM . 170408R

SDM . 1204..



- Two or four cutting edges per indexable insert
- Half effective design with corner front piece





	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●●	●●	●●	●●





Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁₆ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Walter Capto™ in acc. with ISO 26623	★ M4258-050-C6-02-75-M	50	C6	110	87	77	2	1,3	14 2	LDM . 170408R SDM . 120408
	★ M4258-063-C8-02-96-M	63	C8	150	115	98	2	3,1	18 2	
Walter Capto™ similar to ISO 26623 (without gripper groove)	★ M4258-080-C8-03-116-M	80	C8	150	150	118	3	3,9	33 3	LDM . 170408R SDM . 120408

Body with 80 mm diameter: Adaption without gripper groove
Bodies and assembly parts are included in the scope of delivery.


Assembly parts

D _c [mm]	50	63	80
Front piece	M4258-050-P20-02-25-F	M4258-063-P30-02-36-F	M4258-080-P40-02-36F
 Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	
 Clamping screw for front piece Tightening torque	FS370 (SW 10) 40 Nm	FS373 (SW 12) 120,0 Nm	

Accessories

D _c [mm]	50–80
 Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
 Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
 Interchangeable blade	FS2014 (Torx 15IP)
 Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K			S			
			HC			HC			HC			HC			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S
 LDMT170408R-D51 LDMT170408R-D57 LDMT170408R-F57 LDMW170408R-A57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
 SDMT120408-D51 SDMT120408-D57 SDMT120408-F57 SDMW120408-A57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

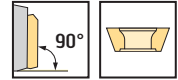
●● Primary application

● Other application

Porcupine milling cutter basic bodies

M4258 modular

SDM . 120408



- Two or four cutting edges per indexable insert
- Basic body for porcupine milling cutters

	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁₆ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Walter Capto™ in acc. with ISO 26623	★ M4258-050-C6-02-50-B	50	C6	85	62	52	2	1,2	10	SDM . 120408
	★ M4258-063-C8-02-60-B	63	C8	115	80	63	2	2,8	12	
Walter Capto™ similar to ISO 26623 (without gripper groove)	★ M4258-080-C8-03-80-B	80	C8	115	115	83	3	3,3	25	SDM . 120408

Body with 80 mm diameter: Adaption without gripper groove
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		50–80
	Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]		50–80
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	P			M			K				S				
		HC			HC			HC				HC				
		WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S
SDMT120408-D51	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT120408-D57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT120408-F57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMW120408-A57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

•• Primary application

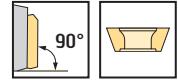
• Other application

Porcupine milling cutter front piece

M4258 modular

LDM . 170408R

SDM . 120408



- Two or four cutting edges per indexable insert
- Half effective design with corner front piece

	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	L _c mm	Z	kg	No. of indexable inserts	Type
	★ M4258-050-P20-02-25-F	50	25	2	0,1	4 2	LDM . 170408R SDM . 120408
	★ M4258-063-P30-02-36-F	63	35	2	0,3	6 2	
	★ M4258-080-P40-03-36-F	80	35	3	0,6	9 3	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		50–80
	Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]		50–80
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K			S				
			HC			HC			HC			HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
LDMT170408R-D51	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMT170408R-D57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMT170408R-F57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
LDMW170408R-A57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT120408-D51	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT120408-D57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT120408-F57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMW120408-A57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

•• Primary application

• Other application

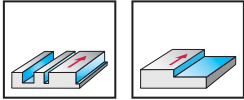
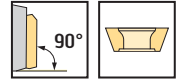
Porcupine milling cutters

M4258 modular inch

LDM . 170408R
SDM . 120408



- Two or four cutting edges per indexable insert
- Half effective design with corner front piece





	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●●	●●	●●	●●





Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁₆ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Walter Capto™ in acc. with ISO 26623	★ M4258.051-C6-02-75-M	2,000	C6	4,331	3,425	3,031	2	2,9	14	LDM . 170408R
	★ M4258.064-C8-02-96-M	2,500	C8	5,906	4,528	3,858	2	7,0	18	SDM . 120408
Walter Capto™ similar to ISO 26623 (without gripper groove)	★ M4258.076-C8-03-116-M	3,000	C8	5,906	5,906	4,646	3	8,0	33	LDM . 170408R SDM . 120408

Body with 80 mm diameter: Adaption without gripper groove
Bodies and assembly parts are included in the scope of delivery.

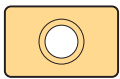

Assembly parts

D _c [mm]	2,000	2,500	3,000
Front piece	M4258.051-P20-02-25-F	M4258.064-P30-02-36-F	M4258.076-P40-03-36-F
 Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	
 Clamping screw for front piece Tightening torque	FS370 (SW 10) 40 Nm	FS373 (SW 12) 120,0 Nm	

Accessories

D _c [Inch]	2,000–3,000
 Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
 Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
 Interchangeable blade	FS2014 (Torx 15IP)
 Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K			S				
			HC			HC			HC			HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
 LDMT170408R-D51	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
 SDMT120408-D51	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMW120408-A57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

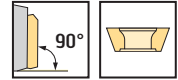
•• Primary application

• Other application

Porcupine milling cutter basic bodies

M4258 modular inch

SDM . 120408



- Two or four cutting edges per indexable insert
- Basic body for porcupine milling cutters

	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁₆ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Walter Capto™ in acc. with ISO 26623	★ M4258.051-C6-02-50-B	2,000	C6	3,346	2,441	2,047	2	2,6	10	SDM . 120408
	★ M4258.064-C8-02-60-B	2,500	C8	4,528	3,150	2,480	2	6,2	12	
Walter Capto™ similar to ISO 26623 (without gripper groove)	★ M4258.076-C8-03-80-B	3,000	C8	4,528	4,528	3,268	3	6,8	25	SDM . 120408

Body with 80 mm diameter: Adaption without gripper groove
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		2,000–3,000
	Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [Inch]		2,000–3,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	P			M			K				S				
		HC			HC			HC				HC				
		WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S
SDMT120408-D51	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT120408-D57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT120408-F57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMW120408-A57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

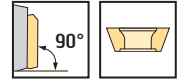
•• Primary application

• Other application

Porcupine milling cutter front piece

M4258 modular inch

LDM . 170408R
SDM . 120408



- Two or four cutting edges per indexable insert
- Half effective design with corner front piece

	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
	★ M4258.051-P20-02-25-F	2,000	0,984	2	0,3	4 2	LDM . 170408R SDM . 120408
	★ M4258.064-P30-02-36-F	2,500	1,378	2	0,7	6 2	
	★ M4258.076-P40-03-36-F	3,000	1,378	3	1,3	9 3	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		2,000–3,000
	Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [Inch]		2,000–3,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K				S			
			HC			HC			HC				HC			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
LDMT170408R-D51	0,8	1,6	☉	☉	☉	☉					☉	☉	☉	☉		☉
LDMT170408R-D57	0,8	1,6	☉	☉	☉	☉	☉				☉	☉	☉	☉		☉
LDMT170408R-F57	0,8	1,6	☉	☉	☉	☉	☉	☉			☉	☉	☉	☉		☉
LDMW170408R-A57	0,8	1,6	☉	☉	☉	☉					☉	☉	☉	☉		☉
SDMT120408-D51	0,8		☉	☉	☉	☉					☉	☉	☉	☉		☉
SDMT120408-D57	0,8		☉	☉	☉	☉	☉				☉	☉	☉	☉		☉
SDMT120408-F57	0,8		☉	☉	☉	☉	☉	☉			☉	☉	☉	☉		☉
SDMW120408-A57	0,8		☉	☉	☉	☉					☉	☉	☉	☉		☉

HC = Coated carbide

WALTER
SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

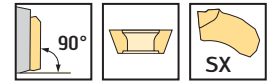
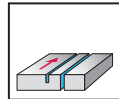
●● Primary application

● Other application

Slitting and slot milling cutters

F5055 mm
Walter BLAXX


– One cutting edge per indexable insert



	P	M	K	N	S	H	O
F5055	●●	●	●●	●●	●		

Tool	Designation	D _c mm	d ₁ mm	SB mm	a _e mm	l ₁₀ mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 longitudinal keyway 	F5055.B16.063.Z05.1.5	63	16	1,5	15	1,2	5	0,05	5	SX-1
	F5055.B16.063.Z05.2.0	63	16	2	15	1,6	5	0,04	5	SX-2
	F5055.B16.063.Z04.3.0	63	16	3	15	2,4	4	0,06	4	SX-3
	F5055.B16.063.Z04.4.0	63	16	4	15	3,4	4	0,07	4	SX-4
	F5055.B16.080.Z07.1.5	80	16	1,5	19	1,2	7	0,06	7	SX-1
	F5055.B16.080.Z07.2.0	80	16	2	19	1,6	7	0,07	7	SX-2
	F5055.B16.080.Z06.3.0	80	16	3	19	2,4	6	0,09	6	SX-3
	F5055.B16.080.Z06.4.0	80	16	4	19	3,4	6	0,12	6	SX-4
	F5055.B22.100.Z09.1.5	100	22	1,5	25	1,2	9	0,10	9	SX-1
	F5055.B22.100.Z09.2.0	100	22	2	25	1,6	9	0,11	9	SX-2
	F5055.B22.100.Z09.3.0	100	22	3	25	2,4	9	0,14	9	SX-3
	F5055.B22.100.Z09.4.0	100	22	4	25	3,4	9	0,18	9	SX-4
	F5055.B32.125.Z11.1.5	125	32	1,5	33	1,2	11	0,15	11	SX-1
	F5055.B32.125.Z11.2.0	125	32	2	33	1,6	11	0,17	11	SX-2
	F5055.B32.125.Z11.3.0	125	32	3	33	2,4	11	0,23	11	SX-3
	F5055.B32.125.Z11.4.0	125	32	4	33	3,4	11	0,29	11	SX-4
	F5055.B40.160.Z14.2.0	160	40	2	38	1,6	14	0,29	14	SX-2
	F5055.B40.160.Z14.3.0	160	40	3	38	2,4	14	0,38	14	SX-3
	F5055.B40.160.Z14.4.0	160	40	4	38	3,4	14	0,5	14	SX-4
	F5055.B40.200.Z19.3.0	200	40	3	58	2,4	19	0,65	19	SX-3
F5055.B40.200.Z19.4.0	200	40	4	58	3,4	19	0,85	19	SX-4	
F5055.B40.250.Z24.3.0	250	40	3	83	2,4	24	1,07	24	SX-3	
F5055.B40.250.Z24.4.0	250	40	4	83	3,4	24	1,39	24	SX-4	
★ F5055.B50.500.Z40.5.0	500	50	5	120	4	40	5,7	40	SX-5	

 Values for a_e in combination with drive collar

For fitting the indexable insert, use the FS1494 or FS2249 mounting wrench

Accessories		D _c [mm]	63	63	80	80	80	100	100	100	125	125	125	160	160	200	250	500	
		SB [mm]	1,5-2	3-4	1,5	2	3-4	1,5	2	3-4	1,5	2	3-4	2	3-4	3-4	3-4	5	
	Drive collar		FS1346	FS2291	FS1347	FS2292		FS1348				FS1349				FS1350			
	Mounting wrench		FS2249			FS1494	FS2249	FS1494				FS2249							
	Ergonomic mounting wrench			FS2290			FS2290			FS2290			FS2290				FS2290		
	Clamping screw for retaining washer																	FS966 (SW 5)	
	Tightening torque																	8,0 Nm	
	Retaining washer instead of drive collar																	FS1351	
	Key for clamping screw																	ISO2936-5 (SW 5)	

Drive collars and retaining washers should always be ordered in pairs.
Clamping screws for retaining washers are included in the scope of delivery.

Cutting inserts

Designation	s mm	r mm	P				M					K				N			S				
			HC				HC					HC				HC	HW	HC	HC				
			WKP23S	WKP25S	WKP35S	WSP45S	WSM23S	WSM33S	WSM35S	WSM43S	WSP45S	WAK15	WKP23S	WKK25S	WKP25S	WKP35S	WXN15	WK10	WK1	WSM23S	WSM33S	WSM35S	WSM43S
SX-5E500L6-CE4	5	0,4																					
SX-5E500L6-CF5	5	0,4																					
SX-2E200N02-CE4	2	0,2	☺																				
SX-3E300N02-CE4	3	0,2	☺																				
SX-1E150N01-CE4	1,5	0,15																					
SX-4E400N02-CE4	4	0,2	☺																				
SX-5E500N04-CE4	5	0,4	☺																				
SX-2E200N02-CF6	2	0,2																					
SX-3E300N02-CF6	3	0,2																					
SX-1E150N01-CF6	1,5	0,15																					
SX-5E500N04-CF5	5	0,4																					
SX-5E500N04-CK8	5	0,4															☺						
SX-2E200N02-SF5	2	0,2																					
SX-3E300N02-SF5	3	0,2																					
SX-1E150N01-SF5	1,5	0,15																					
SX-4E400N02-SF5	4	0,2																					
SX-5E500N04-SF5	5	0,4																					
SX-2E200N02-SK8	2	0,2																					
SX-3E300N02-SK8	3	0,2																					
SX-1E150N01-SK8	1,5	0,1																					
SX-4E400N02-SK8	4	0,2																					
SX-5E500N04-SK8	5	0,4																					
SX-5E500R6-CE4	5	0,4																					
SX-5E500R6-CF5	5	0,4																					

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

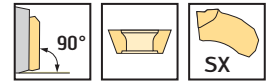
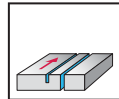
●● Primary application

● Other application

Slitting and slot milling cutters

F5055
Walter BLAXX


– One cutting edge per indexable insert



	P	M	K	N	S	H	O
F5055	●	●	●	●	●		

Tool	Designation	D _c mm	d ₁ mm	d ₆ mm	l ₄ mm	SB mm	a _e mm	Z	kg	No. of indexable inserts	Type	
ScrewFit 	F5055.T36.063.Z04.3,0R	63	36		75	3	15	4	0,6	4	SX-3	
	F5055.T45.080.Z06.3,0R	80	45		85	3	19	6	0,8	6		
	F5055.T36.063.Z04.4,0R	63	36		76	4	15	4	0,6	4	SX-4	
	F5055.T45.080.Z06.4,0R	80	45		86	4	19	6	0,8	6		
Parallel bore DIN 138 longitudinal keyway 	F5055.BN16.063.Z04.3,0R	63	16	35	40	3	15	4	0,03	4	SX-3	
	F5055.BN16.080.Z06.3,0R	80	16	40	40	3	19	6	0,06	6		
	F5055.BN22.100.Z09.3,0R	100	22	40	40	3	25	9	0,10	9		
	F5055.BN32.125.Z11.3,0R	125	32	80	50	3	33	11	1	11		
		F5055.BN40.160.Z14.3,0R	160	40	58	63	3	38	14	0,25	14	SX-4
		F5055.BN16.063.Z04.4,0R	63	16	35	41	4	15	4	0,05	4	
		F5055.BN16.080.Z06.4,0R	80	16	80	41	4	19	6	0,46	6	
		F5055.BN22.100.Z09.4,0R	100	22	48	41	4	25	9	0,14	9	
		F5055.BN32.125.Z11.4,0R	125	32	48	51	4	33	11	0,24	11	
		F5055.BN40.160.Z14.4,0R	160	40	58	64	4	38	14	0,40	14	

For fitting the indexable insert, use the FS1494 or FS2249 mounting wrench
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Type D _c [mm]	SX-3/SX-4 63	SX-3/SX-4 80	SX-3/SX-4 100	SX-3/SX-4 125	SX-3/SX-4 160
	Bore adaptor part		AA704-B16-G16-040-A	AA704-B16-G16-040-B	AA704-B22-G22-040-B	AA704-B32-G32-050-B	AA704-B40-G40-063-B
	NCT ScrewFit adaptor		AA766-T36-G16-040	AA766-T45-G16-050			

Accessories		Type D _c [mm]	SX-3/SX-4 63	SX-3/SX-4 80-100	SX-3/SX-4 125	SX-3/SX-4 160
	Clamping screw for adaptor		FS938 (SW 6)	FS938 (SW 6)	FS938 (SW 6)	FS938 (SW 6)
	Clamping screw for milling cutter Tightening torque		FS2270 (Torx 15IP) 6,5 Nm	FS2270 (Torx 15IP) 6,5 Nm	FS2271 (Torx 20IP) 7 Nm	FS2272 (Torx 30IP) 8 Nm
	Mounting wrench for cutting insert		FS2249	FS1494	FS1494	FS1494
	Ergonomic mounting wrench		FS2290	FS2290	FS2290	FS2290
	Torque T-handle Tightening torque		FS2041 4,5-14 Nm	FS2041 4,5-14 Nm	FS2041 4,5-14 Nm	FS2041 4,5-14 Nm
	Screwdriver		FS1485 (Torx 15IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1175 (Torx 30)
	Clamping screw Allen key Adaptor		ISO2936-6 (SW 6)	ISO2936-6 (SW 6)	ISO2936-6 (SW 6)	ISO2936-6 (SW 6)
	Interchangeable blade		FS2047 (Torx 15IP)	FS2047 (Torx 15IP)	FS2048 (Torx 20IP)	FS2046 (Torx 30)

Designation	s mm	r mm	P				M				K				N			S				
			HC				HC				HC				HC	HW	HC	HC				
			WKP23S	WKP25S	WKP35S	WSP45S	WSM23S	WSM33S	WSM35S	WSM43S	WSP45S	WAK15	WKP23S	WKK25S	WKP25S	WKP35S	WXN15	WK10	WK1	WSM23S	WSM33S	WSM35S
SX-3E300N02-CE4	3	0,2	☺				☺	☺	☺		☺							☺	☺	☺	☺	
SX-4E400N02-CE4	4	0,2	☺				☺	☺	☺		☺							☺	☺	☺	☺	
SX-3E300N02-CF6	3	0,2					☺	☺	☺										☺	☺	☺	
SX-3E300N02-SF5	3	0,2					☺	☺	☺										☺	☺	☺	
SX-4E400N02-SF5	4	0,2					☺	☺	☺										☺	☺	☺	
SX-3E300N02-SK8	3	0,2															☺					
SX-4E400N02-SK8	4	0,2														☺						

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●● Primary application

● Other application

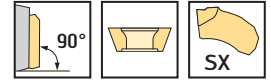
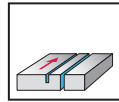
Slitting and slot milling cutters

F5055 inch

Walter BLAXX



– One cutting edge per indexable insert



	P	M	K	N	S	H	O
F5055	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	d ₆ Inch	l ₄ Inch	SB Inch	a _e Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	F5055.UBN16.063.Z04.3.0R	2,480	0,500	1,378	1,575	0,118	0,591	4	0,6	4	SX-3
	F5055.UBN16.080.Z06.3.0R	3,150	0,500	1,575	1,575	0,118	0,748	6	0,9	6	
	F5055.UBN22.100.Z09.3.0R	3,937	0,750	1,575	1,575	0,118	0,984	9	1,3	9	
	F5055.UBN32.125.Z11.3.0R	4,921	1,000	3,150	1,969	0,118	1,299	11	2,3	11	
	F5055.UBN40.160.Z14.3.0R	6,299	1,500	2,283	2,480	0,118	1,496	14	4,8	14	
	F5055.UBN16.063.Z04.4.0R	2,480	0,500	1,378	1,614	0,157	0,591	4	0,6	4	SX-4
	F5055.UBN16.080.Z06.4.0R	3,150	0,500	3,150	1,614	0,157	0,748	6	1,0	6	
	F5055.UBN22.100.Z09.4.0R	3,937	0,750	1,890	1,614	0,157	0,984	9	1,4	9	
	F5055.UBN32.125.Z11.4.0R	4,921	1,000	1,890	2,008	0,157	1,299	11	4,4	11	
	F5055.UBN40.160.Z14.4.0R	6,299	1,500	2,283	2,520	0,157	1,496	14	5,1	14	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		SX-3/SX-4 D _c [Inch] 2,480	SX-3/SX-4 3,150	SX-3/SX-4 3,937	SX-3/SX-4 4,921	SX-3/SX-4 6,299
	Bore adaptor part	AA704.B13-G16-040-A	AA704.B13-G16-040-B	AA704.B19-G22-040-B	AA704.B26-G32-050-B	AA704.B38-G40-062-B

Accessories		SX-3/SX-4 D _c [Inch] 2,480	SX-3/SX-4 3,150	SX-3/SX-4 3,937	SX-3/SX-4 4,921	SX-3/SX-4 6,299
	Clamping screw for adaptor	FS938 (SW 6)	FS938 (SW 6)	FS939 (SW 8)	FS941 (SW 14)	FS942 (SW 17)
	Clamping screw for milling cutter Tightening torque	FS2270 (Torx 15IP) 6,5 Nm	FS2270 (Torx 15IP) 6,5 Nm	FS2270 (Torx 15IP) 6,5 Nm	FS2271 (Torx 20IP) 7 Nm	FS2272 (Torx 30IP) 8 Nm
	Mounting wrench for cutting insert	FS2249	FS1494	FS1494	FS1494	FS1494
	Ergonomic mounting wrench	FS2290	FS2290	FS2290	FS2290	FS2290
	Clamping screw Allen key Adaptor	ISO2936-6 (SW 6)	ISO2936-6 (SW 6)	ISO2936-6 (SW 6)	ISO2936-6 (SW 6)	ISO2936-6 (SW 6)
	Torque T-handle Tightening torque	FS2041 4,5–14 Nm	FS2041 4,5–14 Nm	FS2041 4,5–14 Nm	FS2041 4,5–14 Nm	FS2041 4,5–14 Nm
	Screwdriver	FS1485 (Torx 15IP)	FS1485 (Torx 15IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1175 (Torx 30)
	Interchangeable blade	FS2047 (Torx 15IP)	FS2047 (Torx 15IP)	FS2047 (Torx 15IP)	FS2048 (Torx 20IP)	FS2046 (Torx 30)

Designation	s mm	r mm	P				M					K				N			S				
			HC				HC					HC				HC			HC				
			WKP23S	WKP25S	WKP35S	WSP45S	WSM23S	WSM33S	WSM35S	WSM43S	WSP45S	WAK15	WKP23S	WKP25S	WKP35S	WXN15	WK10	WK1	WSM23S	WSM33S	WSM35S	WSM43S	WSP45S
SX-3E300N02-CE4	3	0,2	☺				☺	☺	☺		☺						☺	☺	☺	☺			
SX-4E400N02-CE4	4	0,2	☺				☺	☺	☺		☺						☺	☺	☺	☺			
SX-3E300N02-CF6	3	0,2					☺	☺	☺								☺	☺	☺	☺			
SX-3E300N02-SF5	3	0,2					☺	☺	☺								☺	☺	☺	☺			
SX-4E400N02-SF5	4	0,2					☺	☺	☺								☺	☺	☺	☺			
SX-3E300N02-SK8	3	0,2														☺							
SX-4E400N02-SK8	4	0,2													☺								

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●● Primary application

● Other application

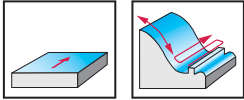
Copy milling cutters with round inserts

M2471 mm

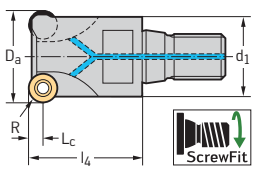
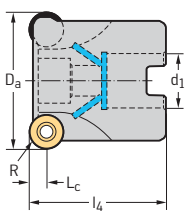
RNMX1206M0



- For roughing turbine blades
- Eight cutting edges per indexable insert



	P	M	K	N	S	H	O
M2471	●●	●●	●	●	●●	●	●

Tool	Designation	R mm	D _a mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
ScrewFit 	M2471-032-T28-03-06	6	32	T28	40	6	3	0,2	3	RNMX1206M0
	M2471-040-T36-04-06	6	40	T36	40	6	4	0,3	4	
Parallel bore DIN 138 transverse keyway 	M2471-050-B22-05-06	6	50	22	40	6	5	0,5	5	RNMX1206M0
	M2471-052-B22-05-06	6	52	22	40	6	5	0,4	5	
	M2471-063-B22-07-06	6	63	22	40	6	7	0,4	7	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	D_a [mm]	32–63
	Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

	D_a [mm]	32–63
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	d mm	P		M		K			N		S		
		HC		HC		HC			HC	HW	HC		
		WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S
	RNMX1206M0-D57												
	RNMX1206M0-F67												

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

•• Primary application

• Other application

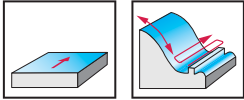
Copy milling cutters with round inserts

M2471 inch

RNMX1206M0

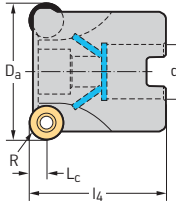


- For roughing turbine blades
- Eight cutting edges per indexable insert



	P	M	K	N	S	H	O
M2471	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	R Inch	D _a Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway	M2471.051-B19-05-06	0,236	2,000	0,750	1,500	0,236	5	0,6	5	RNMX1206M0
	M2471.064-B26-07-06	0,236	2,500	1,000	1,750	0,236	7	1,3	7	



Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _a [Inch]		2,000	2,500
	Clamping screw for indexable insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
	Clamping screw for arbour-mounted tools	FS1523	FS1586

Accessories

D _a [Inch]		2,000–2,500
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	d mm	P		M		K			N		S		
		HC		HC		HC			HC	HW	HC		
		WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S
	RNMX1206M0-D57												
	RNMX1206M0-F67												

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

•• Primary application

• Other application

Cutting data for roughing

WKP35G/WMP45G

Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R_m N/mm ²	Machining group ¹	= Cutting data for wet machining = Dry machining is possible		Cutting material grades	
								Starting values for cutting speed v_c [m/min]	
								HC Face/shoulder milling WKP35G a_e / D_c^*	
							1/1 1/2	1/5	
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	428	P1	● ●●	250	300
		C > 0.25 ... ≤ 0.55%	Annealed	190	639	P2	● ●●	220	260
		C > 0.25 ... ≤ 0.55%	Heat-treated	210	708	P3	● ●●	215	250
		C > 0.55%	Annealed	190	639	P4	● ●●	220	260
		C > 0.55%	Heat-treated	300	1013	P5	● ●●	160	180
	Low-alloy steel	Free-machining steel (short-chipping)	Annealed	220	745	P6	● ●●	210	240
		Annealed		175	591	P7	● ●●	220	270
		Heat-treated		300	1013	P8	● ●●	170	190
		Heat-treated		380	1282	P9	● ●●	130	150
	High-alloy steel and high-alloy tool steel	Heat-treated		430	1477	P10	● ●●	110	130
		Annealed		200	675	P11	● ●●	130	160
		Hardened and tempered		300	1013	P12	● ●●	80	90
	Stainless steel	Hardened and tempered		400	1361	P13	● ●●	70	80
		Ferritic/martensitic, annealed		200	675	P14	● ●●	140	160
	M	Stainless steel	Martensitic, heat-treated		330	1114	P15	● ●●	90
Austenitic, quench hardened				200	675	M1	●● ●		
K	Malleable cast iron	Austenitic, precipitation hardened (PH)		300	1013	M2	●● ●		
		Austenitic/ferritic, duplex		230	778	M3	●● ●		
	Grey cast iron	Ferritic		200	675	K1	● ●●	160	190
		Pearlitic		260	867	K2	● ●●	140	170
	Cast iron with spheroidal graphite	Low tensile strength		180	602	K3	● ●●	300	330
		High tensile strength/austenitic		245	825	K4	● ●●	190	220
	GGV (CGI)	Ferritic		155	518	K5	● ●●	200	220
Pearlitic			265	885	K6	● ●●	130	150	
N	Wrought aluminium alloys			200	675	K7	● ●●	130	160
		Not hardenable		30	-	N1	●●		
	Cast aluminium alloys	Hardenable, hardened		100	343	N2	●●		
		≤ 12% Si, not hardenable		75	260	N3	●●		
		≤ 12% Si, hardenable, hardened		90	314	N4	●●		
	Magnesium-based alloys ³	> 12% Si, not hardenable		130	447	N5	●●		
		Unalloyed, electrolytic copper		100	343	N7	●●		
	Copper and copper alloys (bronze/brass)	Brass, bronze, red brass		90	314	N8	●●		
		Cu alloys, short-chipping		110	382	N9	●●		
		High-tensile, Ampco		300	1013	N10	●●		
S	Heat-resistant alloys	Annealed		200	675	S1	●●		
		Hardened		280	943	S2	●●		
		Annealed		250	839	S3	●●		
		Hardened		350	1177	S4	●●		
		Cast		320	1076	S5	●●		
	Titanium alloys	Ni- or Co-based		200	675	S6	●●		
		Pure titanium		375	1262	S7	●●		
		α and β alloys, hardened		410	1396	S8	●●		
	Tungsten alloys	β alloys		300	1013	S9	●●		
	Molybdenum alloys		300	1013	S10	●●			
H	Hardened steel	Fe-based		50 HRC	-	H1	●●		
		Hardened		55 HRC	-	H2	●●		
		Hardened		60 HRC	-	H3	●●		
	Hardened cast iron	Hardened and tempered		55 HRC	-	H4	●●		
O	Thermoplastics	Without abrasive fillers				O1	●● ●	400	400
	Thermosets	Without abrasive fillers				O2	●● ●	300	300
	Plastic, glass-fibre-reinforced	GFRP				O3			
	Plastic, carbon-fibre-reinforced	CFRP				O4			
	Plastic, aramid-fibre-reinforced	AFRP				O5			
	Graphite (technical)		80 Shore			O6	●●		

- Recommended application (the specified cutting data is regarded as starting values for the recommended application)
- Possible application, reduce cutting data by 30–50% (increase by approx. 70–80% for ISO M)

¹ The classification of the machining groups can be found from page C 671 onwards in the Walter General Catalogue 2017.

² Cutting data can also be used without coolant.

* $a_e / D_c = 1 / 10$, $v_c = 10\%$ higher than 1 / 5

³ Water-miscible coolants must not be used when machining magnesium alloys.

Feed determination (starting values)

Cutter type		M3024	M4003	M2136		
Material group	<p>Feed per tooth f_{z0} for $a_e = D_c$ $a_p = a_{p \max} = L_c$</p>					
	Lead angle κ	90°	45°		90°	
	Tool diameter or diameter range [mm]	f_{z0} [mm]	f_{z0} [mm]	f_{z0} [mm]	f_{z0} [mm]	
	Maximum depth of cut $a_{p \max} = L_c$ [mm]	63–160	20–100	25–160	50–160	
		6.0	4.5	6.5	6.5	
P	Non-alloyed steel ¹	0.45	0.20	0.25		
	Low-alloy steel	0.40	0.15	0.20		
	High-alloyed steel and tool steel	0.32	0.15	0.20		
	Stainless steel	0.22	0.12	0.15		
M	Stainless steel ²	0.17	0.10	0.12		
K	Malleable cast iron	0.32	0.20	0.25	0.20	
	Grey cast iron	0.55	0.25	0.30	0.25	
	Cast iron with spheroidal graphite	0.45	0.20	0.25	0.20	
	GGV (CGI)	0.27	0.17	0.20	0.15	
N	Wrought aluminium alloys		0.12	0.15		
	Cast aluminium alloys		0.12	0.15		
	Magnesium alloys		0.10	0.12		
	Copper and copper alloys (bronze/brass)		0.10	0.12		
S	Heat-resistant alloys		0.10	0.12		
	Titanium alloys		0.10	0.12		
	Tungsten alloys		0.10	0.12		
	Molybdenum alloys		0.10	0.12		
H	Hardened steel					
	Hardened cast iron					
O	Thermoplastics		0.10	0.15		
	Plastic, carbon-fibre-reinforced			0.15		
	Graphite (technical)		0.10			
Indexable insert types		XNML0906.	SD..09T3AZN..	SD..1204AZN..	SNEF1204.	
Correction factor K_{a_e}	for the feed per tooth depending on the ratio of width of cut a_e to milling cutter diameter D_c	$a_e / D_c = 1/1-1/2$	1.0	1.0	1.0	1.0
		1/5	1.1	1.1	1.1	1.1
		1/10	1.2	1.2	1.2	1.2
		1/20	1.3	1.3	1.3	1.3
		1/50				
Correction factor K_{a_p}	for the feed per tooth depending on the depth of cut a_p	$a_p = 1$				
		2				
		3				
		4				
		6				
		8				
$f_z = f_{z0} \cdot K_{a_e} \cdot K_{a_p}$						
$a_{p \max} = L_c$						

¹ and steel casting

² and austenitic/ferritic

* only possible if $a_p < 0.75 \times D_c$

** only with $a_e/D_c < 1/5$

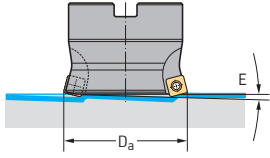
The specified feed rates are average standard values.
For specific applications, adjustment is recommended.

		M2331				M4130						F5055					M2471	
		For face/shoulder milling		For circular interpolation milling		For shoulder milling operations			For circular interpolation milling operations									
		90°		90°		90°			90°			90°						
		f _{z0} [mm]		f _{z0} [mm]		f _{z0} [mm]	f _{z0} [mm]	f _{z0} [mm]	f _{z0} [mm]	f _{z0} [mm]	f _{z0} [mm]	f _{z0} [mm]					f _{z0} [mm]	
		32-50	40-50	32-50	40-50	16-25	32-50	50-100	16-20	25-50	50-100	63-125	63-160	63-250	63-250	500	32-40	40-63
		15	20	15	20	8	13	16	8	13	16	1.5	2.0	3.0	4.0	5.0	6	6
						0.15	0.20	0.25	0.13	0.17	0.22	0.06	0.08	0.10	0.12	0.12	0.17	0.22
						0.10	0.15	0.17	0.09	0.13	0.17	0.06	0.07	0.09	0.11	0.10	0.17	0.15
						0.10	0.15	0.17	0.09	0.13	0.17	0.06	0.07	0.09	0.11	0.10	0.13	0.15
						0.08	0.12	0.15	0.07	0.10	0.13	0.05	0.06	0.08	0.09	0.05	0.09	0.11
						0.08	0.10	0.12	0.07	0.09	0.10	0.05	0.06	0.08	0.09	0.05	0.09	0.11
						0.12	0.20	0.25	0.10	0.17	0.22	0.06	0.07	0.09	0.11	0.12		
						0.15	0.25	0.30	0.13	0.22	0.27	0.06	0.08	0.10	0.12	0.14		
						0.12	0.20	0.25	0.10	0.17	0.22	0.06	0.07	0.09	0.11	0.12		
						0.10	0.15	0.17	0.10	0.17	0.22					0.10		
		0.15	0.20	0.13	0.18											0.12		
		0.12	0.15	0.13	0.18											0.10		
		0.12	0.12	0.13	0.18											0.10		
		0.10	0.10	0.11	0.13											0.10		
						0.08	0.12	0.15	0.07	0.10	0.13	0.05	0.06	0.08	0.09	0.05	0.09	0.11
						0.08	0.12	0.15	0.07	0.10	0.13	0.05	0.06	0.08	0.09	0.05	0.09	0.11
						0.08	0.12	0.15	0.07	0.10	0.13	0.05	0.06	0.08	0.09	0.05	0.09	0.11
						0.08	0.12	0.15	0.07	0.10	0.13	0.05	0.06	0.08	0.09	0.05	0.09	0.11
		0.15	0.15			0.12	0.17	0.20	0.12	0.17	0.20							
		0.12	0.12			0.10	0.15	0.15	0.10	0.15	0.15							
	ZD6T15A4..																	
	ZD6T20A..																	
	ZD6T15A4..																	
	ZD6T20A5..																	
	LD..08T2..																	
	LD..14T3..																	
	LD..1704..																	
	LD..08T2..																	
	LD..14T3..																	
	LD..1704..																	
	SX-1E15..																	
	SX-2E20..																	
	SX-3E30..																	
	SX-4E40..																	
	SX-5E50..																	
	RNMX1206..																	
	RNMX1206..																	
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.0	1.0
		1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.8	1.8	1.8	1.8	1.0	1.2	1.2
		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5	1.2	1.5	1.5
		1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	3.3	3.3	3.3	3.3	1.4	1.8	1.8
												5.8	5.8	5.8	5.8	1.5	2.0	2.0
																	1.5	1.6
																	1.2	1.3
																	1.0	1.1
																	1.0	1.0

Application information for M4002/F2010 high-feed face milling cutters

Ramping

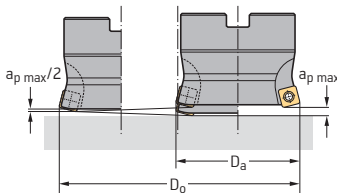
Maximum plunging depth E [°]



D _a [mm]	SD .. 06T2 ..						
	r = 0,4 mm	r = 0,8 mm	r = 1,2 mm	r = 1,6 mm	r = 2,0 mm	r = 2,5 mm	ZDR
20	3,7	2,9	2,2				1,5
25	2,2	1,8	1,4				0,6
32	1,3	1	0,7				0,4
35	1,2	1	0,7				0,5
40	1,1	0,9	0,7				0,3
42	0,8	0,7	0,5				0,3
50	0,8	0,7	0,5				0,3
52	0,7	0,6	0,5				0,3
63	0,6	0,4	0,3				0,2
66	0,5	0,4	0,3				0,2
D _a [mm]	SD .. 09T3 ..						
	r = 0,4 mm	r = 0,8 mm	r = 1,2 mm	r = 1,6 mm	r = 2,0 mm	r = 2,5 mm	ZDR
25	4,3	3,5	2,8	2,3	1,2		1,2
32	3,6	3,1	2,7	2,3	1,9		1,8
35	2,9	2,5	2,2	1,9	1,5		1,6
40	2,2	1,9	1,6	1,4	1,2		1,2
42	2	1,7	1,5	1,3	1		1
50	1,5	1,3	1,1	1	0,8		0,8
52	1,3	1,2	1	0,8	0,7		0,7
63	1	0,8	0,7	0,6	0,5		0,5
66	0,9	0,8	0,7	0,6	0,4		0,4
D _a [mm]	SD .. 120408 ..						
	r = 0,4 mm	r = 0,8 mm	r = 1,2 mm	r = 1,6 mm	r = 2,0 mm	r = 2,5 mm	ZDR
50		1,9	1,7	1,5	1,3	1	1
52		1,8	1,6	1,4	1,2	0,9	0,9
63		1,2	1,1	0,9	0,8	0,6	0,6
66		1,1	1	0,9	0,7	0,6	0,6
80		0,8	0,7	0,6	0,5	0,4	0,4
85		0,7	0,7	0,6	0,5	0,4	0,3
100		0,5	0,4	0,4	0,3	0,2	0,2
125		0,4	0,4	0,3	0,3	0,2	0,2

Circular interpolation milling of a hole into solid material

Diameter range for milling a hole in one pass [mm]

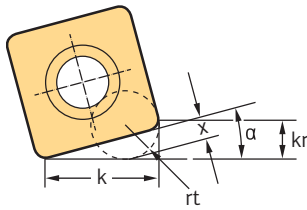


D _a [mm]	Indexable insert					
	SD .. 06T204		SD .. 09T308		SD .. 120408	
	D _{0 min} [mm]	D _{0 max} [mm]	D _{0 min} [mm]	D _{0 max} [mm]	D _{0 min} [mm]	D _{0 max} [mm]
20	28,6	40				
25	38,6	50	33,26	50		
32	52,6	64	47,26	64		
35	58,6	70	53,26	70		
40	68,6	80	63,26	80		
42	72,6	84	67,26	84		
50	88,6	100	83,26	100	77,12	100
52	92,6	104	87,26	104	81,12	104
63	114,6	126	109,26	126	103,12	126
66	120,6	132	115,26	132	109,12	132
80					137,12	160
85					147,12	170
100					177,12	200
125					227,12	250
200			323,26	400	377,12	400
250			423,26	500	477,12	500
315			553,26	630	607,12	630

Application information for M4002/F2010 high-feed face milling cutters

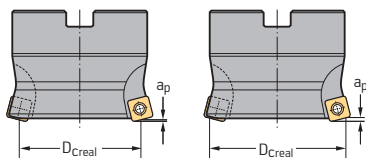
(continued)

Programming information



Indexable insert	α [°]	rt [mm]	x [mm]	kr [mm]	k [mm]
SD .. 06T212	15	2,1	0,68	2,2	4,86
SD .. 06T2ZDR	15	1,3	0,72	2,63	4,29
SD .. 06T204	15	1,7	1	1,83	5,7
SD .. 09T320	15	3,3	0,94	3,41	7,07
SD .. 09T3ZDR	15	2,4	1,09	3,65	6,9
SD .. 09T308	15	2,7	1,43	2,83	8,37
SD .. 120425	15	4,3	1,32	4,46	9,61
SD .. 1204ZDR	15	3,1	1,58	4,85	9,31
SD .. 120408	15	3,5	2,02	3,65	11,44

Increase in productivity



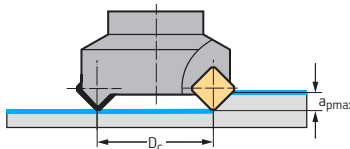
$$D_{c \text{ real}} \approx D_c + 8 \cdot a_p$$

- In order to achieve an increase in productivity, it is recommended to use the $D_{c \text{ real}}$ when calculating the cutting data.
- The $D_{c \text{ real}}$ depends on the depth of cut a_p (see figure).

Application information for M4003/F2010 face milling cutters

Face milling

Max. milling depth a_p [mm]

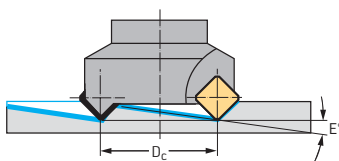


	SD .. 09T3AZN	SD .. 1204AZN
a_p	4,5	6,5

Ramping

Maximum feed angle E [°]

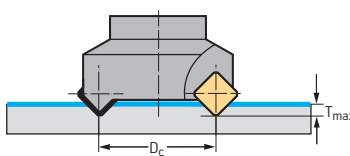
Metric



D_c [mm]	SD..09T3AZN..	SD..1204AZN..
20	23,2	
25	16,9	25,9
32	12,1	17,9
40	9,1	13,2
50	7,0	9,8
63	5,3	7,4
80	4,0	5,6
100	3,1	4,3
125		3,4
160	6,8	2,6

Vertical plunging

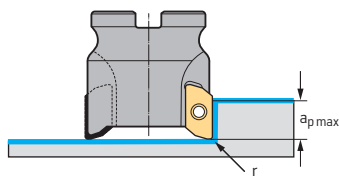
Max. plunging depth T_{max} [mm]



	SD..09T3AZN..	SD..1204AZN..
T_{max}	4,5	6,0

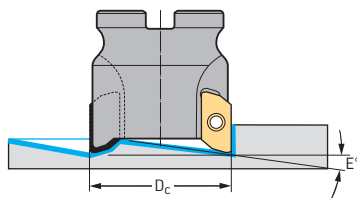
Application information for M2331 ramping milling cutters

Shoulder milling



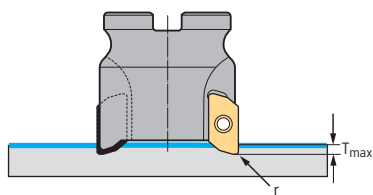
Corner radius r [mm]	Max. milling depth a_{pmax} [mm]	
	ZDGT15A4..	ZDGT20A5..
0,4	16,0	21,3
0,8	16,0	21,3
1,2	15,9	21,2
1,6	15,8	21,0
2,0	15,7	20,9
2,5	15,5	20,8
3,0	15,4	20,6
4,0	15,1	20,3
5,0		20,0
6,0		19,8
6,4		19,7

Ramping



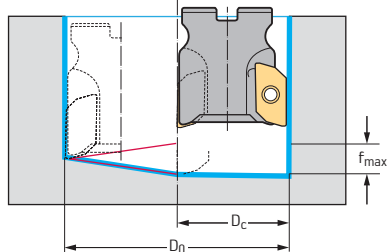
D_c [mm]	Maximum feed angle E [°]	
	ZDGT15A4..	ZDGT20A5..
32	11	
40	7	12
50	5	8

Vertical plunging



Corner radius r [mm]	Max. plunging depth T_{max} [mm]	
	ZDGT15A4..	ZDGT20A5..
0,4	4,5	6,0
0,8	4,5	6,0
1,2	4,4	5,9
1,6	4,2	5,7
2,0	4,1	5,6
2,5	4,0	5,5
3,0	3,8	5,3
4,0	3,5	5,0
5,0		4,7
6,0		4,5
6,4		4,4

Circular interpolation of a hole into solid material



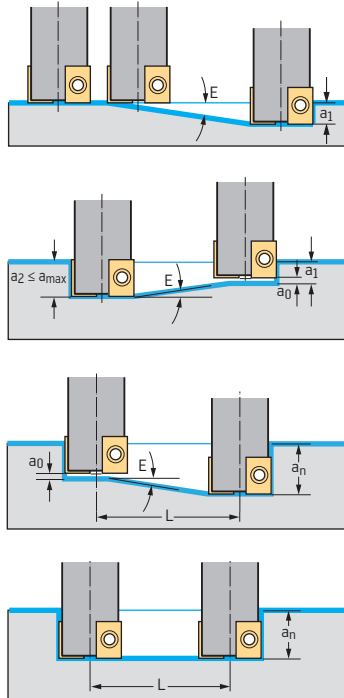
Milling cutter dia. D_c [mm]	Possible hole diameters and axial feeds					
	ZD...15A4..			ZD...20A5..		
	D_{0min} [mm]	D_{0max} [mm]	f_{max} [mm]	D_{0min} [mm]	D_{0max} [mm]	f_{max} [mm]
32	45	64	7,9			
40	61	80	8,1	54	80	9,3
50	81	100	8,5	74	100	10,6

Designation	Tightening screw for adaptor
M2331-040-B16-03-15	M8 × 40 (SW6)
M2331-050-B22-02-15	M10 × 35 (SW8)
M2331-050-B22-03-15	M10 × 35 (SW8)

Designation	Tightening screw for adaptor
M2331-050-B22-04-15	M10 × 35 (SW8)
M2331-050-B22-02-20	M10 × 40 (SW8)
M2331-050-B22-03-20	M10 × 40 (SW8)

Application information for M4130 shoulder milling cutter

Ramping and circular plunging into solid material

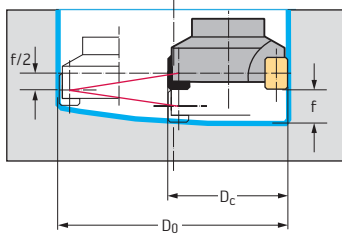


Maximum feed angle E [°]

D _c [mm]	LD..08T204R..	LD..14T308R..	LD..170408R
16	4,6		
20	2,7		
25	1,9	5,5	
32		2,9	
40		1,9	
50		1,4	1,9
63		1,0	1,3
80			1
100			0,7

Circular interpolation

Maximum axial feed per tool revolution ("thread pitch") b [mm]



Premachined hole diameter		LD..08T204R..														LD..14T308R..				LD..170408R..					
D ₀ min [mm]	D ₀ max [mm]	D _c [mm]			D _c [mm]				D _c [mm]						D _c [mm]		D _c [mm]		D _c [mm]						
		16	20	25	25	32	40	50	63	40	50	63	80	100	125										
20,6	32	5,7																							
28,6	40	5,7	5,7																						
38,6	50	5,7	5,7	5,7																					
31,6	50	5,7	5,7	5,7	9,2																				
45,6	64	5,7	5,7	5,7	9,2	9,2																			
61,6	80	5,7	5,7	5,7	9,2	9,2	9,2																		
81,6	100	5,7	5,7	5,7	9,2	9,2	9,2	9,2																	
107,6	126	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2																
57,6	80	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2															
77,6	100	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2	11,2														
103,6	126	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2	11,2	11,2													
137,6	160	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2	11,2	11,2	11,2												
177,6	200	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2	11,2	11,2	11,2	11,2											
227,6	250	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2	11,2	11,2	11,2	11,2	11,2										

Information on high-speed applications

- Maximum permissible speeds:
The limit values specified in the tables should not be exceeded. Otherwise correct operation and/or reliability are no longer guaranteed.
- Only use original Walter indexable inserts and assembly parts (screws, etc.). New screws should be used after having replaced the indexable inserts five times at the most.
- Observe the torques specified in the catalogue.
- Balancing:
Balancing in two steps must be performed when working at high speeds (> 6000 rpm) or at circumferential speeds of > 1000 m/min:
 - Basic balancing of the tool body including indexable inserts (can be carried out by Walter if required). In this case, tool adaptors that have been balanced separately beforehand must be used.
 - Fine balancing of the tool when fully mounted on the adaptor. The fine balancing operation is strongly recommended, as even the smallest concentricity error can seriously affect the balance status.
- Short projection lengths reduce concentricity faults, and increase spindle service life. The specified speeds only apply to the use of tools without additional extensions and for tools with a neck length of $\leq 2.2 \times D_c$. For tools with longer neck lengths, the speeds must be reduced upon consultation with Walter.

Metric			n_{max} [rpm] with D							
Tool	Safety-related parts	In relation to	Ø 16	Ø 20	Ø 25	Ø 32	Ø 35	Ø 40	Ø 50	
M3024	XN.U0705...	D_c						12.500	11.200	
	XN.U0906...	D_c								
M4002	SD..06T2...	D_a		28.300	25.300	22.400		20.000	17.900	
	SD..09T3...	D_a			34.900	30.800	29.500	27.600	24.600	
	SD..1204...	D_a							17.900	
M4003	SD..09T3...	D_c		40.000	38.000	33.600		30.100	26.900	
	SD..1204...	D_c			33.300	29.400		26.300	23.500	
M2331	ZD..15A4..	D_c				40.000		39.800	34.400	
	ZD..20A5..	D_c						40.000	34.000	
M4130	LD..08T204...	D_c	40000	34.300	29.400					
	LD..14T308...	D_c			40.000	33.600		28.800	25.000	
	LD..170408...	D_c							17.300	
M2136	SNEF...	D_c							11.200	
M4258	SD..1204..	D_c							17.300	
	LD..1704..	D_c							17.300	
M2471	RNMX12...	D_c				26.600		23.300	20.400	

Inch			n_{max} [rpm] with D							
Tool	Safety-related parts	In relation to	Ø 0,750	Ø 1,000	Ø 1,250	Ø 1,500	Ø 2,000	Ø 2,500	Ø 3,000	
M3024	XN.U0705...	D_c				12,800	11,100	9,900	9,000	
	XN.U0906...	D_c						8,400	7,600	
M4002	SD..06T2...	D_a	28,300	25,300	22,400	20,000	17,900	16,000		
	SD..09T3...	D_a		34,900	30,800	27,600	24,600	22,000		
	SD..1204...	D_a					17,900	16,000	14,100	
M4003	SD..09T3...	D_c	40,000	37,700	33,800	30,800	26,700	23,900	21,800	
	SD..1204...	D_c		33,000	29,500	27,000	23,300	20,900	19,000	
M2331	ZD..15A4..	D_c				40,000	34,100			
	ZD..20A5..	D_c					33,600			
M2136	SNEF...	D_c					11,100	9,900	9,000	
M4258	SD..1204..	D_c					17,100	14,900	13,300	
	LD..1704..	D_c					17,100	14,900	13,300	
M2471	RNMX12...	D_c					20,300	17,900		

6. Safety guard:

Appropriate safety guards or machine encapsulations must be used to safely collect particles which spin off, such as chips or cutting edge parts that are broken as a result of collisions.

7. Damaged tools:

The operating speed must be specified for the repair of an HSC tool. The table values only apply to tools with a condition equivalent to new condition following repair.

8. Application of standards:

Walter recommends using the balancing standard DIN 69888, which describes the balancing of tools and the application requirements. DIN 69888 is tailored to the needs of the application, and describes the tool balancing requirements in a practical way. DIN ISO 1940, which was previously often used, describes balancing for all areas of mechanical engineering. The requirements when working at circumferential speeds of >1000 m/min are described in DIN ISO 15641.


n _{max} [rpm] with D										
	Ø 52	Ø 63	Ø 66	Ø 80	Ø 100	Ø 125	Ø 160	Ø 200	Ø 250	Ø 315
		10.000		8.800	7.900	7.000	6.200	4.200	3.800	3.350
		8.500		7.400	6.500	5.200	4.100			
	17.600	16.000	15.600							
	24.200	22.000	21.400							
	17.600	16.000	15.600	14.100	12.600	11.300		4.200	3.800	3.350
		24.000		21.200	19.000			4.200	3.800	3.350
		21.000		18.600	16.600	14.900	13.100	4.200	3.800	3.350
		15.000		12.900	11.400	10.000				
		10.000		8.800	7.900	7.000	6.200			
		15.000		12.900						
		15.000		12.900						
	20.000	18.000								

n _{max} [rpm] with D						
	Ø 4,000	Ø 5,000	Ø 6,000	Ø 8,000	Ø 10,000	Ø 12,000
	7,800	7,000	6,400	4,200	3,800	3,350
	6,500	5,100	4,300			
	12,600			4,200	3,800	3,350
	18,800			4,200	3,800	3,350
	16,500	14,700	13,500	4,200	3,800	3,350
	7,800	7,000	6,400			


Torque screwdriver with interchangeable blades




Torque screwdriver



Designation	Size		Scale range
FS2001	1	4	0,4–1,2 Nm
FS2003	3	4	1,5–5,0 Nm
FS2002	1	4	3,5–10,6 in lbs
FS2004	3	4	13,3–44 in lbs




Designation	Size		Scale range
FS2248	3	4	1,0–6,0 Nm





Interchangeable blades	Designation	Torx	
 Torx interchangeable blades Blade length 175 mm	FS2005	6	4
	FS2006	7	
	FS2007	8	
	FS2008	10	
	FS2009	15	
	FS2010	20	
 Torx Plus interchangeable blades Blade length 175 mm	FS2085	6IP	4
	FS2011	7IP	
	FS2012	8IP	
	FS2013	9IP	
	FS2268	10IP	
	FS2014	15IP	
	FS2015	20IP	
Complete blade set (FS2005–FS2016) Blade length 175 mm	FS2017		4

IP = Torx Plus

Torque T-handle




Designation		Scale range
FS2041	6	4,5–14 Nm
FS2042	6	40–123 in lbs

Interchangeable blades	Designation	Torx/WAF	
 Torx interchangeable blades Blade length 130 mm	FS2043	15	6
	FS2044	20	
	FS2045	25	
	FS2046	30	
 Torx Plus interchangeable blades Blade length 130 mm	FS2047	15IP	6
	FS2048	20IP	
	FS2049	25IP	
	FS2109	30IP	
 Hexagonal interchangeable blades Blade length 130 mm	FS2050	SW3	6
	FS2566	★ SW3,5	
	FS2051	SW4	
Complete blade set (FS2043–FS2052) Blade length 130 mm	FS2052	SW5	6
	FS2053		


IP = Torx Plus

 / ★ New addition to the product range



Screwdriver


Screwdriver types	Designation	Torx
 Screwdriver	FS1063	6
	FS2086	6IP
	FS309	7
	FS2088	7IP
	FS230	8
	FS1483	8IP
	FS1128	9
	FS1484	9IP
	FS2267	10IP
	FS229	15
	FS1485	15IP
	FS228	20
	FS1486	20IP
	FS2167	25
	FS1487	25IP
	FS396	30
	FS2109	30IP

IP = Torx Plus

Screwdriver types	Designation	Torx	WAF
 Torx key	FS2146	6IP	–
	FS2087	6IP	–
	FS325	7	–
	FS1490	7IP	–
	FS257	8	–
	FS1466	9IP	–
	FS1050	10	–
	FS255	15	–
	FS1465	15IP	3,5
	FS1496	15IP	4,0
	FS256	20	–
	FS1154	–	2,0
	FS1155	–	2,5

IP = Torx Plus

Screwdriver types	Designation	Torx
 Handle key, small	FS1047	15
	FS1048	20
	FS1049	25
 Handle key, large	FS1172	15
	FS1173	20
	FS1174	25
	FS1175	30

Allen key	Designation	Torx	WAF
	ISO 2936-1,3	–	1,3
	ISO 2936-1,5	–	1,5
	ISO 2936-2	–	2
	ISO 2936-2,5	–	2,5
	ISO 2936-3	–	3
	ISO 2936-3,5	–	3,5
	ISO 2936-4	–	4
	ISO 2936-5	–	5
	ISO 2936-6	–	6
	FS1464	20IP	–
	FS1592	25IP	–

IP = Torx Plus

D – Adaptors

Stationary adaptors – D1

Walter Capto™ adaptors	Clamping units	424
VDI adaptors, one-piece	VDI clamping units	425

Rotating adaptors – D2

Walter Capto™ adaptors	Tool adaptors	429
Adaptor sleeves	For peripheral coolant, internal coolant	435

Technical information – D3

Stationary adaptors	Assembly parts and accessories	436
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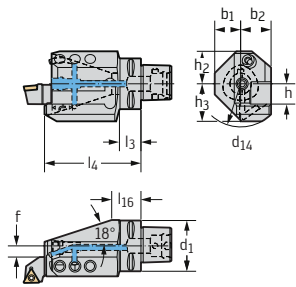
Walter Capto™ – Axial adaptor

A2120-C...-P



- Precision cooling
- For star turrets

Tool	Designation	Size	h mm	b ₁ mm	b ₂ mm	d ₁₄ mm	f mm	h ₂ mm	h ₃ mm	l ₃ mm	l ₄ mm	
Walter Capto™ in acc. with ISO 26623	★ A2120-C5-20R/L-095-P	C5	20	26	30	85	10	32	37	20	88	1,6
	★ A2120-C6-20R/L-105-P	C6	20	32	30	85	10	32	37	20	98	2,3
	★ A2120-C6-25R/L-122-P	C6	25	38	32	100	13	32	46	25	115	3



Ordering example, right-hand tool: A2120-C5-20R-095-P/ordering example, left-hand tool: A2120-C5-20L-095-P
 Important: Adaptors are designed for machines with an automatic tool changing system
 Coolant outlet to the nozzle can be set by turning a valve to the left/right
 The maximum recommended coolant pressure is 80 bar (1160 psi)

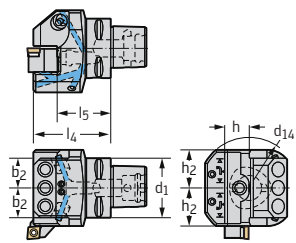
Walter Capto™ – Radial adaptor

A2121-C...-P



- Precision cooling
- For disc turrets

Tool	Designation	Size	h mm	b ₂ mm	h ₂ mm	d ₁₄ mm	l ₄ mm	l ₅ mm	
Walter Capto™ in acc. with ISO 26623	★ A2121-C5-20N-064-P	C5	20	25	32	85	65	45	1,4
	★ A2121-C6-25N-076-P	C6	25	31,5	38	100	80	55	2,5



Important: Adaptors are designed for machines with an automatic tool changing system
 Coolant outlet to the nozzle can be set by turning a valve to the left/right
 The maximum recommended coolant pressure is 80 bar (1160 psi)

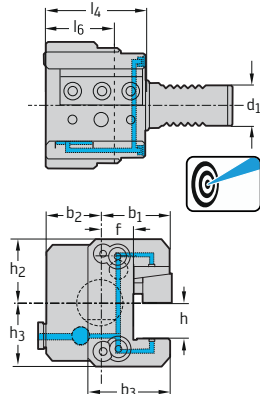
VDI adaptor – DIN 69880 shank tools

A2120-V...-P



- Precision cooling
- For star turrets

Tool	Designation	d ₁	h mm	b ₁ mm	b ₂ mm	b ₃ mm	f mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
Shank DIN 1835 E	A2120-V25-20N-055-P	VDI25	20	39	30	20	19	70	35	35	35	1,3
	A2120-V30-20N-070-P	VDI30	20	55,5	30	39,5	35,5	70	22	35	35	1,7
	A2120-V40-25N-085-P	VDI40	25	50,5	42	45	25,5	85	30	44	44	3,2



The maximum recommended coolant pressure is 80 bar (1160 psi)

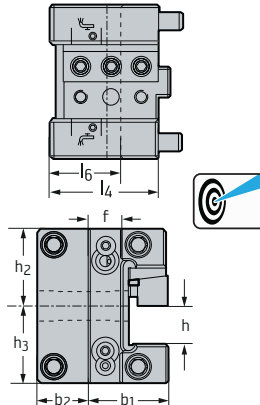
Doosan adaptor – DIN 69880 shank tools

A2120-DO...-P



- Precision cooling
- For Doosan star turrets

Tool	Designation	d ₁	h mm	b ₁ mm	b ₂ mm	b ₃ mm	f mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
Doosan	A2120-DO-25N-072-P	D0	25	51	35	31	26	72	47	51	51	3



The maximum recommended coolant pressure is 80 bar (1160 psi)

BMT adaptor – DIN 69880 shank tools

A2120-BT...-P



- Precision cooling
- For BMT star turrets

Tool	Designation	d ₁	h mm	b ₁ mm	b ₂ mm	b ₃ mm	f mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
	A2120-BT45-20N-063-P	BT45	25	62	40	42	34	63	38	38	38	2,2

The maximum recommended coolant pressure is 80 bar (1160 psi)

Doosan adaptor – DIN 69880 shank tools

A2121-D0...-P



- Precision cooling
- For Doosan disc turret

Tool	Designation	d ₁	h mm	b ₁ mm	b ₂ mm	l ₄ mm	l ₅ mm	h ₂ mm	h ₃ mm	kg
	A2121-D0-25N-050-P	D0	25	50	7	57	32	51	51	3,1

The maximum recommended coolant pressure is 80 bar (1160 psi)

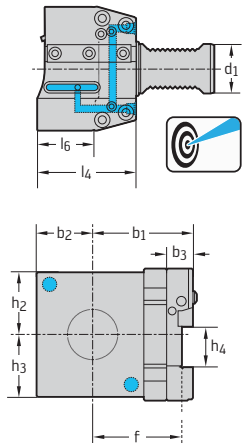
VDI adaptor – DIN 69880 parting blades

A2110-V...-P



- Precision cooling
- For star turrets

Tool		d ₁	h ₄ mm	b ₁ mm	b ₂ mm	b ₃ mm	f mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
Shank DIN 1835 E	A2110-V25-26R/L-083-P	25	26	43	30	17	38	83	52	37	37	1,2



Ordering example, right-hand tool: A2110-V25-26R-083-P/ordering example, left-hand tool: A2110-V25-26L-083-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts		d ₁	25
	Screw 1		M05X010 ISO14579 8.8
	Screw 2		M08X016 ISO4762 12.9
	Wedge		FK383
	Coolant nozzle		FS1477
	Parallel pin		06,0M6X012 DIN7
	Eccentric pin		FS2275
	O-ring 1		O-RING 23,52X1,78 70/75
	O-ring 2		O-RING 24X2 70/80

Accessories		d ₁	25
	Key		FS1592 (Torx 25IP)
	ISO 2936-4 key		ISO2936-4 (SW 4)
	ISO 2936-5 key		ISO2936-5 (SW 5)

Synchronous tapping adaptor

AB035-C mm



- Integrated minimum compensation in axial and radial directions
- ISO 26623

Tool	Designation	d ₁	d ₁₁ mm	d ₁₂ mm	l ₄ mm	Collets	kg	
	Walter Capto™ in acc. with ISO 26623	AB035-C4-ER11-080	C4	M4-M5	24	80	ER11	0,4
	AB035-C4-ER20-102	C4	M4-M12	34	102	ER20	0,7	
	AB035-C4-ER25-122	C4	M8-M20	42	122	ER25	1,0	
	AB035-C5-ER20-103	C5	M4-M12	34	103	ER20	0,9	
	AB035-C5-ER25-122	C5	M8-M20	42	122	ER25	1,2	
	AB035-C5-ER40-154	C5	M16-M30	63	154	ER40	2,7	
	AB035-C6-ER20-105	C6	M4-M12	34	105	ER20	1,2	
	AB035-C6-ER25-124	C6	M8-M20	42	124	ER25	1,6	
	AB035-C6-ER40-154	C6	M16-M30	63	154	ER40	2,9	

If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used. The clamping nut can be damaged if the chuck is used without a sealing disc. For collets, see "Assembly parts and accessories". Bodies and assembly parts are included in the scope of delivery.

Assembly parts		ER11	ER11	ER20	ER25	ER40
	Clamping nut for internal coolant supply	FS2556	FS2557	FS1359	FS1449	FS1450
	Tensioning key	FS2554		FS2553	FS1544	FS1546

FS2556 corresponds to ER11-4.5
 FS2557 corresponds to ER11-6

Synchronous tapping adaptor

AB035-N



– Integrated minimum compensation in axial and radial directions

Tool		Designation	d_1	d_{11} mm	d_{12} mm	l_4 mm	Collets	kg
	Modular NCT adaptor	AB035-N40-ER20-105	NCT 40	4-10	35	105	ER20	0,7
		AB035-N50-ER25-125	NCT 50	8-16	42	125	ER32	1,2

If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used
 The clamping nut can be damaged if the chuck is used without a sealing disc.
 For collets, see "Assembly parts and accessories"
 Bodies and assembly parts are included in the scope of delivery.


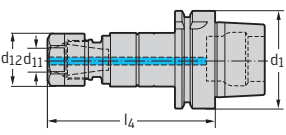
Assembly parts		Collets	ER20	ER32
	Clamping nut for internal coolant supply		FS1359	FS1449
	Tensioning key		FS2553	FS1544

Synchronous tapping adaptor

AB035-H





– Integrated minimum compensation in axial and radial directions

Tool	Designation	d_1	d_{11} mm	d_{12} mm	l_4 mm	Collets		
	HSK DIN 69893-1 A	AB035-H63-ER20-108	HSK-A63	M4-M12	35	108	ER20	1,1
		AB035-H63-ER25-128	HSK-A63	M8-M20	44	128	ER25	1,5
		AB035-H63-ER40-160	HSK-A63	M16-M30	62	160	ER40	3,8
		AB035-H100-ER20-115	HSK-A100	M4-M12	35	145	ER20	2,5
		AB035-H100-ER25-134	HSK-A100	M8-M20	44	134	ER25	2,9
		AB035-H100-ER40-164	HSK-A100	M16-M30	62	163	ER40	4,4

If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used. The clamping nut can be damaged if the chuck is used without a sealing disc.

For collets, see "Assembly parts and accessories"

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Collets	ER20	ER25	ER40
	Clamping nut for internal coolant supply		FS1359	FS1449	FS1450
	Tensioning key		FS2553	FS1544	FS1546

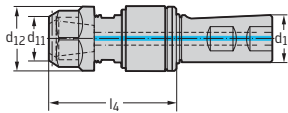
Synchronous tapping adaptor

AB035-W



– Integrated minimum compensation in axial and radial directions

Tool	Designation	d ₁	d ₁₁ mm	d ₁₂ mm	l ₄ mm	Collets	kg
DIN 6535 HE, turned 180° DIN 6535 HB	AB035-W25-ER11-052	25	M2-M5	19	52	ER11	0,5
	AB035-W25-ER20-069	25	M4-M12	34	69	ER20	0,8
	AB035-W25-ER25-088	25	M8-M20	42	88	ER25	1,3



If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used
 The clamping nut can be damaged if the chuck is used without a sealing disc.
 For collets, see "Assembly parts and accessories"
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Collets	ER11	ER11	ER20	ER25
	Clamping nut for internal coolant supply	FS2556	FS2557	FS1359	FS1449
	Tensioning key	FS2554		FS2553	FS1544

FS2556 corresponds to ER11-4.5

FS2557 corresponds to ER11-6

Synchronous tapping adaptor

AB035-S



- Integrated minimum compensation in axial and radial directions
- ISO 7388-1

Tool	Designation	d ₁	d ₁₁ mm	d ₁₂ mm	d ₁₃ mm	l ₄ mm	Collets	kg
SK DIN 69871 	AB035-S40-ER20-102	SK40	M4-M12	35	M16	102	ER20	1,3
	AB035-S40-ER25-122	SK40	M8-M20	44	M16	122	ER25	1,6
	AB035-S50-ER20-106	SK50	M4-M12	35	M24	106	ER20	3,1
	AB035-S50-ER25-126	SK50	M8-M20	44	M24	126	ER25	3,5
	AB035-S50-ER40-155	SK50	M16-M30	62	M24	155	ER40	4,9

If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used. The clamping nut can be damaged if the chuck is used without a sealing disc. For collets, see "Assembly parts and accessories". Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Collets	ER20	ER25	ER40
	Clamping nut for internal coolant supply		FS1359	FS1449	FS1450
	Tensioning key		FS2553	FS1544	FS1546

Synchronous tapping adaptor

AB035-J



- Integrated minimum compensation in axial and radial directions
- ISO 7388-2

Tool	Designation	d ₁	d ₁₁ mm	d ₁₂ mm	d ₁₃ mm	l ₄ mm	Collets	kg	
	JIS B 6339	AB035-J30-ER11-082	BT30	M2-M5	24	M12	82	ER11	0,6
		AB035-J30-ER20-105	BT30	M4-M12	35	M12	105	ER20	0,9
		AB035-J30-ER25-125	BT30	M8-M20	44	M12	125	ER25	1,2
		AB035-J40-ER20-110	BT40	M4-M12	35	M16	110	ER20	1,4
		AB035-J40-ER25-130	BT40	M8-M20	44	M16	130	ER25	1,8
		AB035-J50-ER20-125	BT50	M4-M12	35	M24	125	ER20	4,1
		AB035-J50-ER25-145	BT50	M8-M20	44	M24	145	ER25	4,5
		AB035-J50-ER40-174	BT50	M16-M30	62	M24	174	ER40	5,9

If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used

The clamping nut can be damaged if the chuck is used without a sealing disc.

For collets, see "Assembly parts and accessories"

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Collets	ER11	ER11	ER20	ER25	ER40
	Clamping nut for internal coolant supply	FS2556	FS2557	FS1359	FS1449	FS1450
	Tensioning key	FS2554		FS2553	FS1544	FS1546

FS2556 corresponds to ER11-4.5

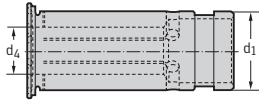
FS2557 corresponds to ER11-6

Adaptor sleeves for peripheral coolant

inch



Tool	Designation	d ₁ Inch	d ₄ Inch	kg
For tools with shank in accordance with DIN 1835 Form A	★ SL0017	0,472	0,125	0,02
	★ SL0018	0,472	0,188	0,02
	★ SL0019	0,472	0,250	0,1
	★ SL0020	0,472	0,375	0,02
	★ SL0021	0,787	0,125	0,1
	★ SL0022	0,787	0,188	0,1
	★ SL0023	0,787	0,250	0,1
	★ SL0024	0,787	0,375	0,1
	★ SL0025	0,787	0,500	0,1
	★ SL0026	0,787	0,625	0,05
	★ SL0027	1,260	0,500	0,3
	★ SL0028	1,260	0,625	0,25
	★ SL0029	1,260	0,750	0,3
	★ SL0030	1,260	1,000	0,3

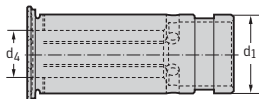


Adaptor sleeves for internal coolant

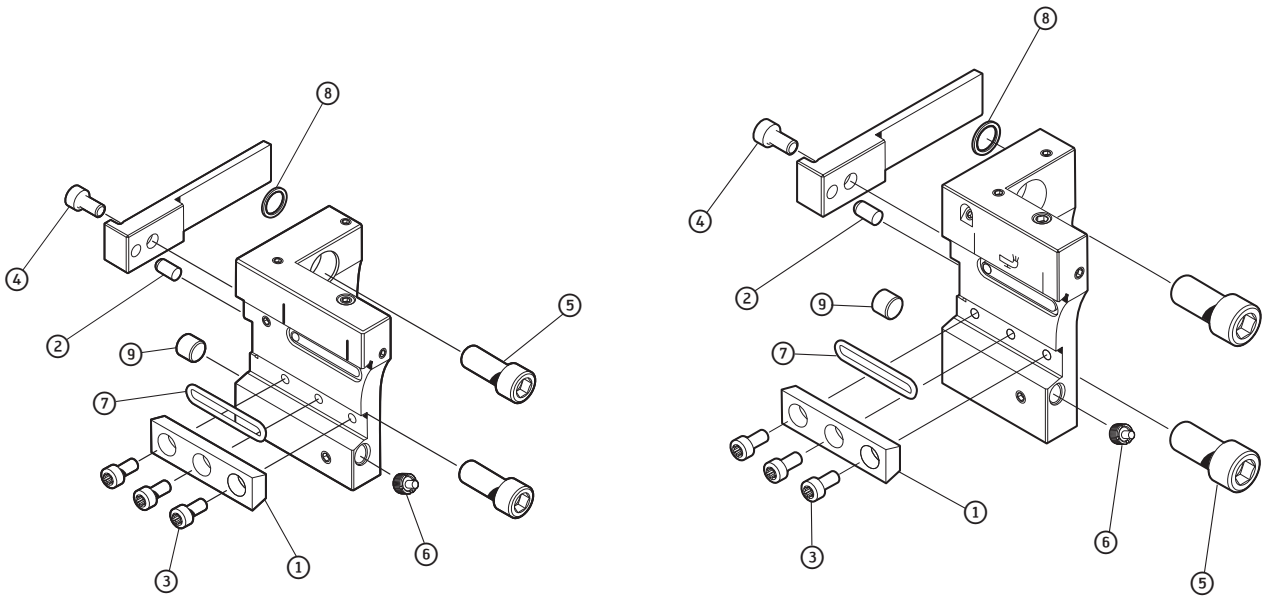
inch



Tool	Designation	d ₁ Inch	d ₄ Inch	kg
For tools with shank in accordance with DIN 1835 Form A	★ SL0001	0,472	0,125	0,1
	★ SL0002	0,472	0,188	0,03
	★ SL0003	0,472	0,250	0,1
	★ SL0004	0,472	0,375	0,1
	★ SL0005	0,787	0,125	0,1
	★ SL0006	0,787	0,188	0,1
	★ SL0007	0,787	0,250	0,1
	★ SL0008	0,787	0,375	0,08
	★ SL0009	0,787	0,500	0,1
	★ SL0010	0,787	0,625	0,04
	★ SL0011	1,260	0,250	0,3
	★ SL0012	1,260	0,375	0,3
	★ SL0013	1,260	0,500	0,3
	★ SL0014	1,260	0,625	0,25
	★ SL0015	1,260	0,750	0,3
	★ SL0016	1,260	1,000	0,3



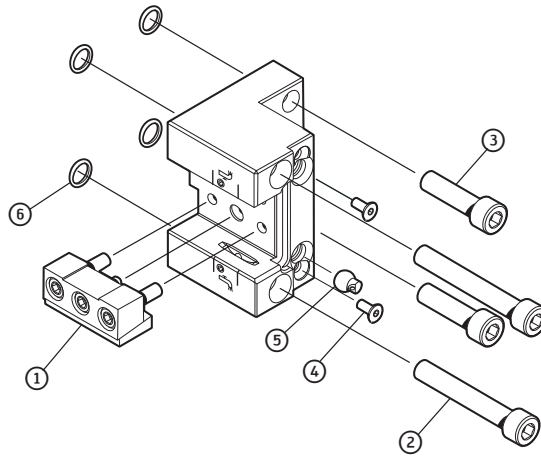
Assembly parts and accessories for Nakamura Type A2110-NA55-32R-076-P



Assembly parts

	55/32	65/32
① Wedge	FK383	FK383
② Parallel pin	06,0M6x012 DIN7	06,0M6x012 DIN7
③ Screw	M05x010 ISO14579 14.9	M05x010 ISO14579 14.9
④ Screw	M06x012 ISO4762 12.9	M06x012 ISO4762 12.9
⑤ Screw	M10x025 ISO4762 12.9	M10x025 ISO4762 12.9
⑥ Nozzle	FS1477	FS1477
⑦ O-ring	O-ring 27x2 70 / 80	O-ring 27x2 70 / 80
⑧ Gasket	FS2563	FS2563
⑨ Plug	DIN906	DIN906

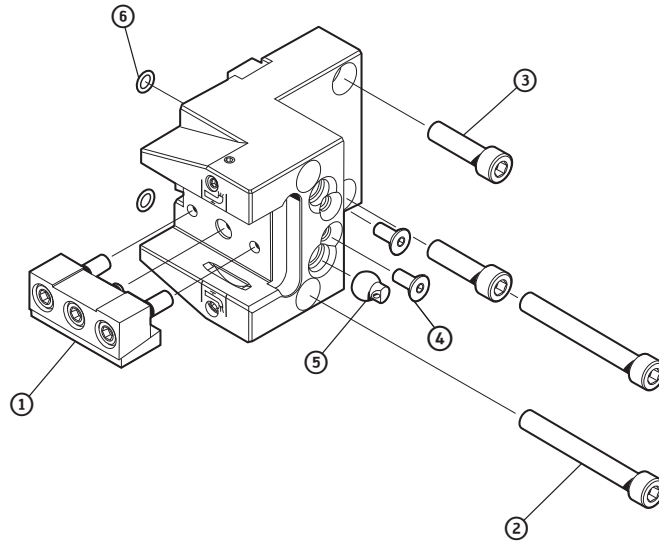
Assembly parts and accessories for Doosan A2120-DO-25N-072-P



Assembly parts

Assembly parts		Do
①	Wedge	FK393
②	Screw	M12x075 ISO4762 12.9
③	Screw	M12x040 ISO4762 12.9
④	Screw	M06x012 DIN7991 10.9
⑤	Nozzle	FS2561
⑥	O-ring	10x1,5-NBR 70

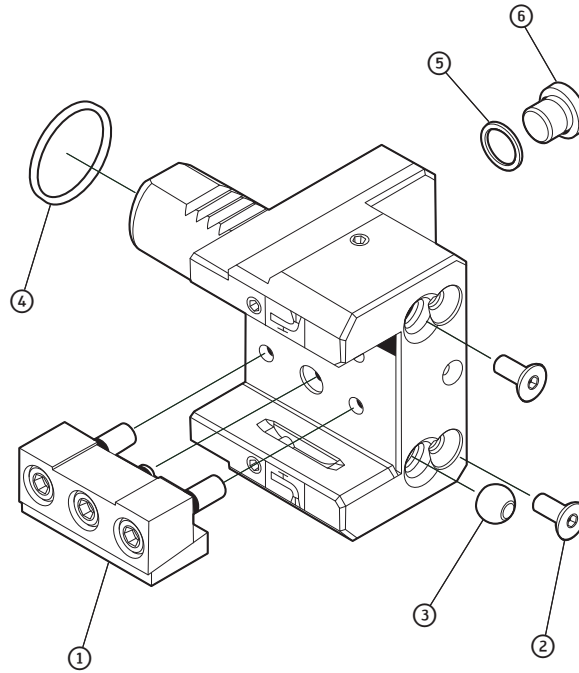
Assembly parts and accessories for BMT A2120-BT45-20N-063-P



Assembly parts

		BT45
①	Wedge	FK392
②	Screw	M08x065 ISO4762 12.9
③	Screw	M08x030 ISO4762 12.9
④	Screw	M06x012 DIN7991 10.9
⑤	Nozzle	FS2561
⑥	O-ring	6x1,5-NBR 70

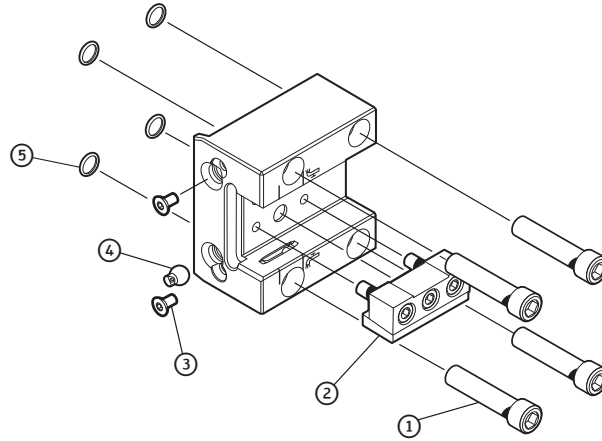
Assembly parts and accessories for VDI A2120-V25-20N-055-P



Assembly parts

Assembly parts		V25
①	Wedge	FK385
②	Screw	M05x012 DIN7991 10.9
③	Nozzle	FS2562
④	O-ring	23,52x1,78
⑤	Gasket	FS2564
⑥	Plug	DIN 908

Assembly parts and accessories for Doosan A2121-DO-25N-050-P



Assembly parts

		Do
①	Wedge	FK393
②	Screw	M12x055 ISO4762 12.9
③	Screw	M06x012 DIN7991 10.9
④	Nozzle	FS2561
⑤	O-ring	10x1,5-NBR 70

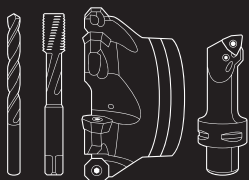
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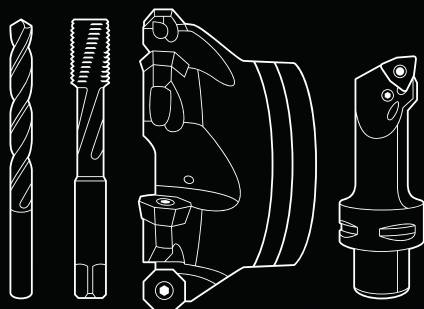
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