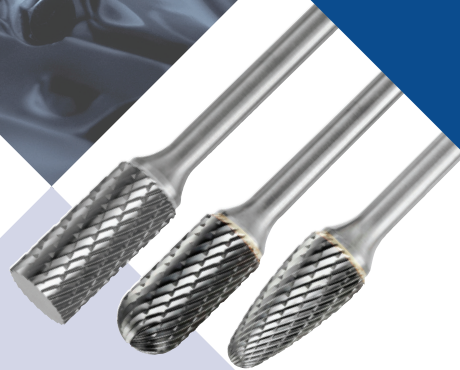


sgspro



Product Catalog (Fractional)

www.atagroup.co



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INTRODUCTION

As one of the world's most technologically advanced bur manufacturing companies, ATA offers bur configurations for every imaginable ferrous or non-ferrous application for efficient stock removal and excellent surface finish. With a state-of-the-art, climate controlled manufacturing facility, SGSPRO burs are the most widely used burs in the world serving a variety of industries, materials and applications.

Industry optimized solutions for better results

We answer your most difficult challenges in demanding environments.

For over 50 years, we have supplied industries with high quality tungsten carbide burs. Using this experience, we have developed a wealth of products designed to meet your application requirements and to exceed your expectations.

TRANSPORT:

AUTOMOTIVE, AEROSPACE, RAILWAY, MARINE.

Industry requires deburring tools that can handle the complexity of work piece configurations and deliver accuracy required for tight tolerance applications. SGSPRO burs are precisely ground on multi-axis CNC grinding machines offering unparalleled performance meeting the demands of challenging materials, including carbon steels, hardened steels, tool steels, stainless steels, and aluminum. Ideal for applications such as Chamfering, Creating a Radius, Weld Removal and Blending, Beveling and Repair.

Automotive machining means high production and cost control without sacrificing quality. The durability of SGSPRO burs can be seen within automotive manufacturing or aftermarket service repair. Ideal for applications such as Flash Removal, Chamfering, Weld Removal and Blending, Beveling, Aftermarket Repair.

METAL FABRICATION:

MOLD & DIE, FOUNDRIES, MEDICAL DEVICES.

Castings & Foundry work requires safe, effective, and consistent performance when it comes to approaching high-strength and heat-resistant materials. ATA is an ISO Certified Company, utilizing rigorous quality control measures throughout the manufacturing process. Our quality burs are ideal for cast materials, including iron, steel, copper-based alloys, aluminum based alloys, exotic alloys, titanium alloys. Ideal for applications such as Parting Line Removal, Fin Removal, Finishing of Casting Risers and Flash Removal.

ENERGY:

POWER GENERATION, OIL & GAS, WIND TURBINE.

Power Generation requires tooling specifically developed for efficient and economical removal of difficult to machine materials. SGSPRO burs maintain superior tool life and control achieved through engineered geometry and consistent braze. Bur construction is torque measured to ensure braze strength and durability. Ideal for applications such as Turbine Manufacturing and Repair.



WARNING: Cancer - www.P65Warning.ca.gov



Research & Development

By continuously improving the shape, fluting, spiral and rake angles and concentricity of our burs, our experienced R&D team focus on developing new design geometries to optimize our customers' processes.

Raw Material

As part of our manufacturing process, we have developed strong relationships with key global suppliers to ensure that our selection of high quality micro-grain carbide remains consistent and to the highest standard.

Brazing Process

An important stage within our manufacturing process, our brazing operation focuses on alignment control, ensuring a brazed product free of contamination.

Grinding

Our manufacturing facilities are equipped with state-of-the-art CNC machines, operated and maintained by highly skilled operators and maintenance engineers.

Inspection

We want to create outstanding benefits for our customers and, therefore, quality management is part of our company culture. We not only test and measure quality, but we live it. Quality checks are carried out throughout the manufacturing process.

Service

Based on our knowledge and technical expertise, our approach through clear procedures ensures that the work we conduct for customers brings value.

HOW TO SELECT YOUR BUR



Applications	Material	Cut	
Efficient stock removal - deburring, finishing, cleaning.	Ferrous metals Non-ferrous metals	Double Cut - CUT 6 (D/C)	
Heavy stock removal - deburring, milling, cleaning, machining.	Non-ferrous metal: aluminum alloys Plastics	Non-ferrous - CUT 1 (NF)	
Heavy stock removal - deburring, milling.	Non hardened steel <45HRc Hardened steel >45HRc: stainless steel High temperature-resistant metals: nickel, cobalt, titanium. Non-ferrous light metals: brass, copper, zinc. Hardened >45HRc: cast iron	Omega Cut - (DDC)	
Medium stock removal - deburring, milling, cleaning, finishing.	Non-ferrous light metals: brass, copper, zinc Plastics Hard Rubber	Coarse Cut - CUT 2 (C/C)	
Medium stock removal - deburring, milling, cleaning, finishing.	Non hardened steel <45HRc Hardened steel >45HRc: stainless steel High temperature-resistant metals: nickel, cobalt, titanium. Non-ferrous light metals: brass, copper, zinc. Hardened >45HRc: cast iron	Single Cut - CUT 3 (S/C)	
Medium stock removal - deburring, milling, cleaning, finishing.	Non hardened steel <45HRc Non-ferrous light metals: brass, copper, zinc. Steel - Hardened >45HRc: cast iron	Chip Breaker - CUT 3 SP (C/B)	
Light stock removal - fine deburring, fine finishing.	Ferrous metals Fiberglass Hardened steel >45HRc High temperature-resistant metals: nickel, cobalt.	Diamond Cut - CUT 4 (DIA)	
Medium stock removal - deburring, milling, cleaning, finishing.	Composite, Carbon Fiberglass	FGR - (FGR)	
Medium stock removal - deburring, milling, cleaning, finishing.	Ni-Alloys & Ti-Alloys	Alloy Specific (AS)	
Heavy stock removal - deburring, milling.	Free machining Stainless steel <25HRc Austenitic Stainless steel <25HRc Ferritic, Austenitic & Martensitic Stainless Steel <32HRc	Inox Cut	
Heavy stock removal - deburring, milling.	Non-hardened or treated steel < 38HRc Construction steels; Structural steels; Carbon steels & tool steels Hardened or treated steel >38HRc Alloy steel; hardened and tempered steel	Steel Cut	
Heavy stock removal - deburring, milling.	Low carbon steels, copper and brass	Base Metal (BM)	


The way to use the speed guide below:

1. Select application and material group
2. Identify the appropriate cut style. Please refer to previous page to match your application and the appropriate cutting style.
3. Identify recommended cutting speed.
4. Select bur diameter.
5. Follow maximum rotational speed.

MATERIAL GROUP 1				CUT STYLES 2			
Super Alloy Materials	Cut 3 - 5 - 6 - 4 - AS						
Hardened steel >45HRc		Omega Cut - Steel Cut - 3 -3SP - 5 - 6					
Non hardened steel <45HRc				Omega cut - Steel cut - 3 - 3SP - 6 - BM			
High temperature-resistant materials	Omega Cut - Inox Cut - 3 - 3SP - 6						
Non-ferrous metals				Cut 1			
Non-ferrous light metals					Cut 1		Cut 2 - 3SP - 6
Plastics, Hard rubber						Cut 1 - 2	
Fiberglass						Cut 4 (FGR)	

RECOMMENDED CUTTING SPEED 3									
METRIC (m/min)	420	480	540	600	660	720	780	840	900
FRACTIONAL (SFM)	1400	1600	1800	2000	2200	2400	2600	2800	3000

BUR DIAMETER 4		MAXIMUM ROTATIONAL SPEED (RPM) 5								
Fractional (Inch)	Metric (mm)									
< 1/8	< 3	45,000	53,000	60,000	66,000	73,000	79,000	86,000	92,500	100,000
3/16	5	35,000	40,000	45,000	50,000	55,000	60,000	65,000	70,000	75,000
1/4	6	26,000	30,000	34,000	37,500	41,500	45,000	49,000	52,500	55,000
5/16	8	21,000	24,000	27,000	30,000	33,000	36,000	39,000	42,000	45,000
3/8	10	17,500	20,000	22,500	25,000	27,500	30,000	32,500	35,000	37,500
1/2	12	13,000	15,000	17,000	19,000	20,500	22,500	24,500	26,000	28,000
5/8	15	10,500	12,000	13,500	15,000	16,500	18,000	19,500	21,000	22,500
3/4	20	9,000	10,000	11,000	12,500	14,000	15,000	16,250	17,500	19,000
1	25	6,500	7,500	8,500	9,500	10,500	11,000	12,000	13,000	14,000

Recommended speeds are based on standard shank length of 1-3/4" max overhang of 3/8"

Maximum recommended speeds for extended length shanks is 15,000rpm

Please note that all cuts available are not displayed in this product catalog. Please contact ATA Customer Service to discuss your specific requirements.

SGSPRO BUR SHAPES

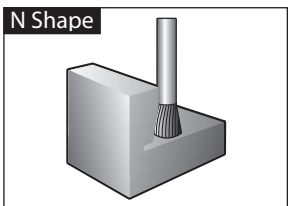
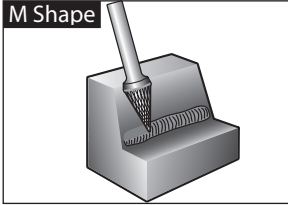
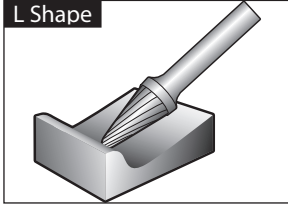
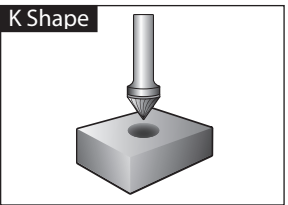
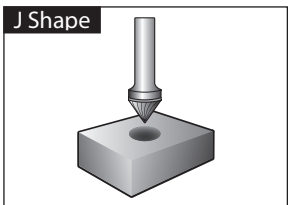
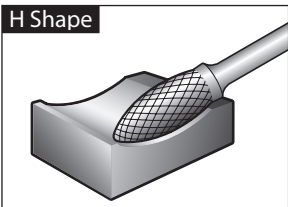
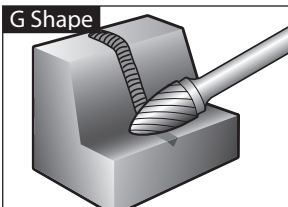
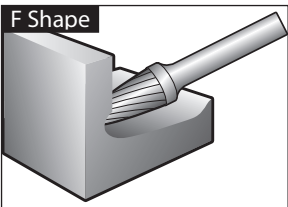
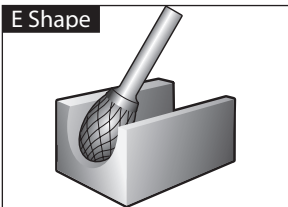
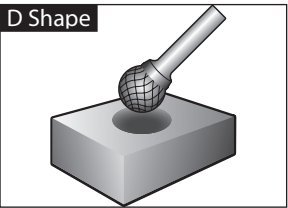
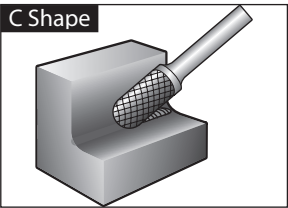
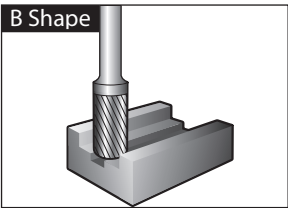
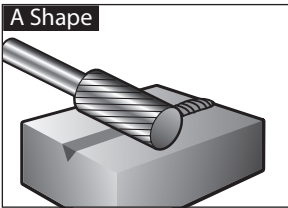
SGSPRO tungsten carbide burs are manufactured in compliance with the highest standards. Our comprehensive product portfolio offers a broad range of reliable and market-proven solutions for every application. Our know-how and expertise allow us to continuously improve our offering to provide outstanding quality and deliver excellent performance across a wide range of industries, optimizing processes in regards to economic efficiency, safety and process optimization.

Customer Support

Our customer service team is available to answer any questions you may have. Our technical support team is available to discuss any requirements you may have and provide you with a tailor-made solution.

Application Tips

- Use lubricant or wax to prevent flute loading in soft materials.
- Using the recommended speed prevents premature wear and/or insufficient material removal rates.
- Maintain grinder concentricity to optimize material removal rates and extend bur life.
- Reduce flutes and increase speed in softer materials. Increase flutes and reduce speed in hardened materials.
- Cross cut styles (6, 3SP, 4) generally improve stock removal, control, and reduce chip size.





- For your most challenging applications and materials
- Maximize your productivity

MATERIAL SPECIFIC

NOTES



sgspro



Alloy Specific Range
Suitable for Ni-Alloys & Ti-Alloys



sgspro ALLOY SPECIFIC RANGE

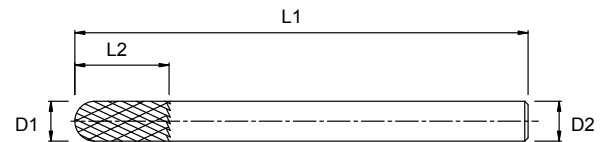
Introducing the new Alloy Specific Bur range from SGSPRO

Designed specifically to meet the most demanding metal finishing needs of high tech industries.

The geometry has been specifically designed for use on Ni-Alloys & Ti-Alloys.

Our new alloy specific bur geometry offers -

- Advanced cutting geometry, allowing for:
 - Increased stock removal
 - Improved surface finish
 - Increased tool life
 - Controlled cutting action
- High performance grinding - ensuring production savings and reduced downtime
- CNC Machined - high consistent quality
- Combined with the ATA Pencil Grinders, the AS range allows for:
 - A smoother grinding operation
 - Increased productivity



D1	Cutting Diameter
L2	Length of Cut
D2	Shank Diameter
L1	Overall Length



Wear Eye Protection!



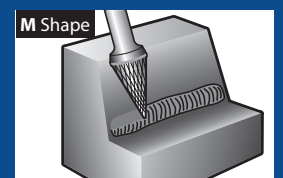
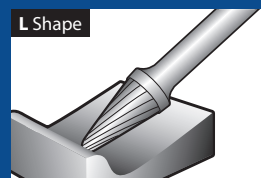
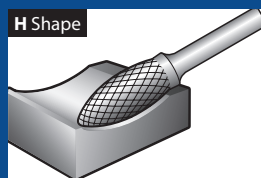
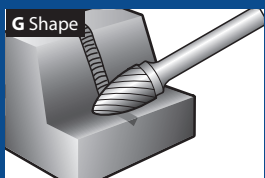
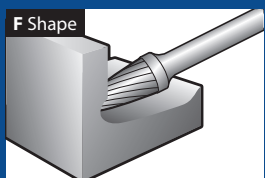
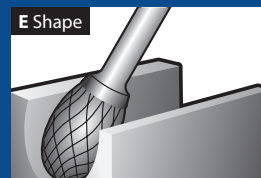
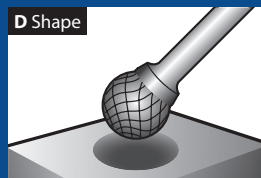
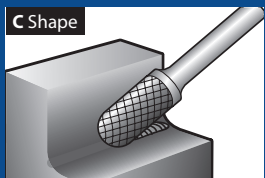
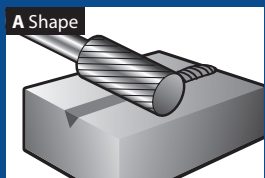
Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



SHAPE SA, SC, SD & SE



Cylinder without Endcut - Shape SA

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SA-43	1/8	9/16	1/8	1-1/2	19400



Ball Nosed Cylinder - Shape SC

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SC-42	1/8	9/16	1/8	1-1/2	19410



Ball Shape - Shape SD

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SD-42	1/8	3/32	1/8	1-1/2	19420



Oval Shape - Shape SE

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SE-41	1/8	7/32	1/8	1-1/2	19430

SHAPE SF, SG, SH



Ball Nosed Tree - Shape SF

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SF-42	1/8	1/2	1/8	1-1/2	19440



Pointed Tree - Shape SG

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SG-42	1/8	5/16	1/8	1-1/2	19450
SG-44	1/8	1/2	1/8	1-1/2	19460



Flame - Shape SH

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SH-41	1/8	1/4	1/8	1-1/2	19470





Ball Nosed Cone - Shape SL

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SL-42	1/8	1/2	1/8	1-1/2	19480



Cone - Shape SM

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SM-43	1/8	5/8	1/8	1-1/2	19490



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves

AS RANGE SET

Features & Benefits

FEATURES

Compact

Versatile assortment

BENEFITS

Easy to carry

Ideal for demonstrations, samplings
or special promotions



Line	Description Type	Contents	Alloy Specific Part No.
Sets	10 pcs Alloy Specific Cut	19400; 19410; 19420; 19430; 19440; 19450; 19460; 19470; 19480; 19490	19500

AS RANGE SPEED GUIDE

Bur Head Diameter	Maximum Operating Speed	Speed Range	Suggested Air Tools
1/8	100,000	45,000 - 100,000	SPM Range

Recommended speeds are based on standard overall length 1-1/2 maximum overhang of 3/8



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Inox Range

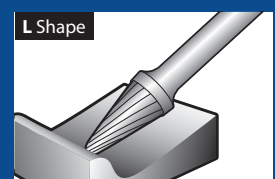
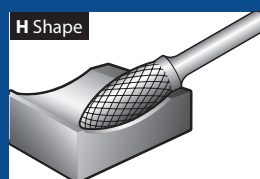
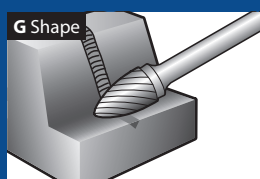
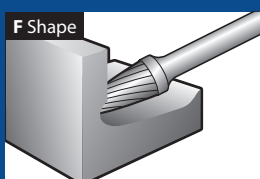
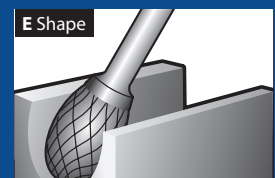
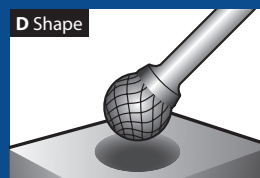
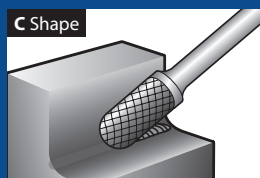
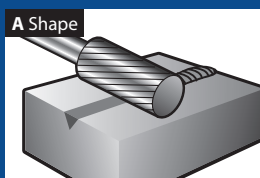


sgspro INOX RANGE

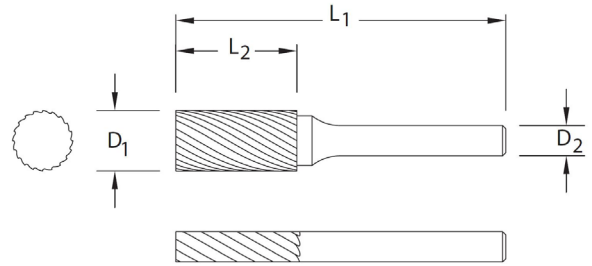
SGSPRO INOX Range has a specially designed geometry to suit growing market demands for stainless steel applications. This is a cost effective alternative to standard solutions due to the greater rate of stainless steel stock removal and on Ferritic, Austenitic & Martensitic based materials.

Features & Benefits

- Developed cutting geometry - generating high stock removal on Inox components
- High performance grinding - ensuring production savings and reduced downtime
- Specifically developed Inox cutting geometry - reducing heat build up at the cutting edge and workpiece
- Manufactured from high quality sintered tungsten carbide - guaranteed high performance and durability
- CNC Machined - High consistent quality
- Combination of ATA air tool with Inox cut geometry - gives a guaranteed smoother grinding operation
- Manufactured to strict quality control standards - Incorporates 100% inspection of brazed joints



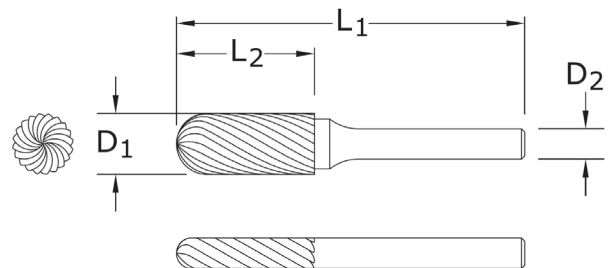
INOX RANGE A, ZYA, SA



Inox A, ZYA, SA - Cylinder without Endcut

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Inox Part No.
SA-43	1/8	9/16	1/8	1-1/2	19150
SA-51	1/4	1/2	1/8	2	19151
SA-1	1/4	5/8	1/4	2	19152
SA-2	5/16	3/4	1/4	2-1/2	19153
SA-3	3/8	3/4	1/4	2-1/2	19154
SA-5	1/2	1	1/4	2-3/4	19155

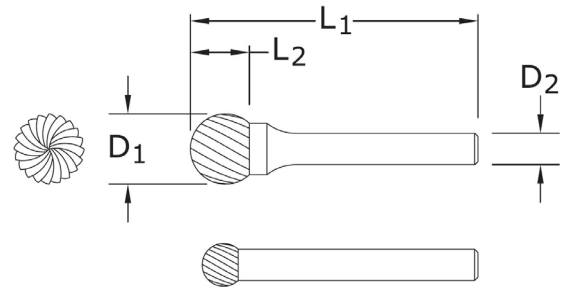
INOX RANGE C, WRC, SC



Inox Shape C, WRC, SC - Ball Nosed Cylinder

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Inox Part No.
SC-42	1/8	9/16	1/8	1-1/2	19156
SC-51	1/4	1/2	1/8	2	19157
SC-1	1/4	5/8	1/4	2	19158
SC-2	5/16	3/4	1/4	2-1/2	19159
SC-3	3/8	3/4	1/4	2-1/2	19160
SC-5	1/2	1	1/4	2-3/4	19161

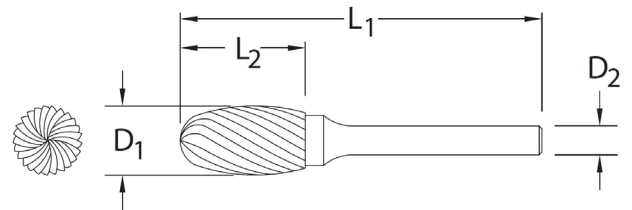
INOX RANGE D, KUD, SD



Inox D, KUD, SD - Ball Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Inox Part No.
SD-42	1/8	1/8	1/8	1-1/2	19162
SD-51	1/4	7/32	1/8	1-3/4	19163
SD-1	1/4	7/32	1/4	2	19164
SD-2	5/16	1/4	1/4	2	19165
SD-3	3/8	5/16	1/4	2-1/16	19166
SD-5	1/2	7/16	1/4	2-1/8	19167

INOX RANGE E, TRE, SE

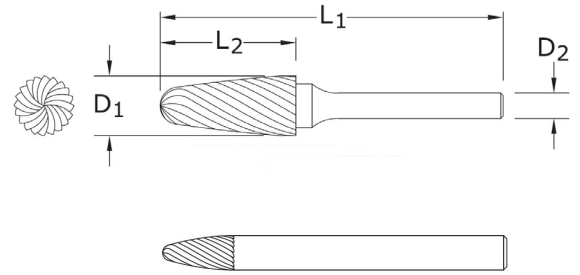


Inox E, TRE, SE - Oval Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Inox Part No.
SE-3	3/8	5/8	1/4	2-3/8	19169
SE-5	1/2	7/8	1/4	2-5/8	19170



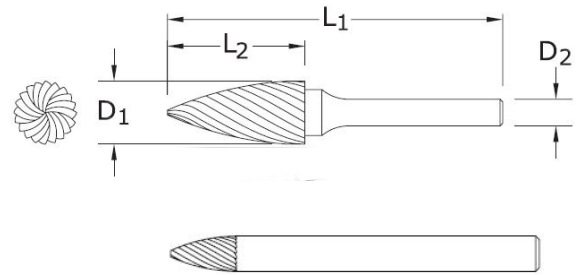
INOX RANGE F, RBF, SF



Inox F, RBF, SF - Ball Nosed Tree Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Inox Part No.
SF-42	1/8	1/2	1/8	1-1/2	19171
SF-51	1/4	1/2	1/8	2	19172
SF-1	1/4	5/8	1/4	2	19173
SF-3	3/8	3/4	1/4	2-1/2	19175
SF-5	1/2	1	1/4	2-3/4	19176

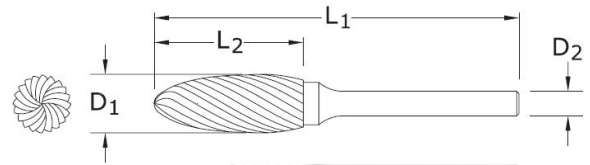
INOX RANGE G, SPG, SG



Inox G, SPG, SG - Pointed Tree Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Inox Part No.
SG-1	1/4	5/8	1/4	2	19177
SG-2	5/16	3/4	1/4	2-1/2	19178
SG-3	3/8	3/4	1/4	2-1/2	19179
SG-5	1/2	1	1/4	2-3/4	19180

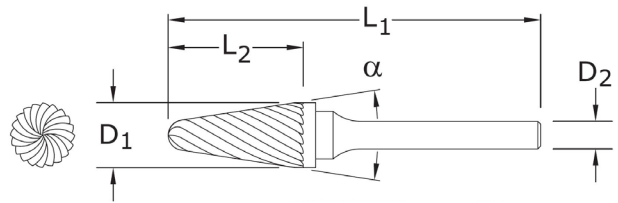
INOX RANGE H, SH



Inox H, SH - Flame Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Inox Part No.
SH-2	5/16	3/4	1/4	2-1/2	19181
SH-5	1/2	1-1/4	1/4	3	19183

INOX RANGE L, KEL, SL



Inox L, KEL, SL- Ball Nosed Cone Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	Cut - Inox Part No.
SL-2	5/16	7/8	1/4	2-3/4	14°	19184
SL-4	1/2	1-1/8	1/4	3	14°	19186



INOX RANGE SETS

INOX

Features & Benefits - Inox Set

FEATURES

Compact
Versatile assortment

BENEFITS

Easy to carry
Ideal for demonstrations, samplings
or special promotions



Line	Description Type	Type	Contents	Cut - Inox Part No.
Sets	BUR5 INOX	5pcs INOX CUT	19155; 19161; 19176; 19180; 19186	19187

INOX RANGE SPEED GUIDE

MATERIAL GROUPS	N/mm2	B.S	EN	DIN
Free Machining	<850	303 S21, 416 S37	EN56 EN60	X100CrNiS189; X12CrMoS17
Austenitic	<850	304 S15, 321 S17, 316S, 320 S12	EN80, EN58+C EN58J, 316	X5CrNi189; X10CrNiMoTi1810
Ferritic; Austenitic & Martensitic	<1000	317 S16, 316 S16	EB58 b,e,j,t Duplex alloys	XbCrNiMo275; X4CrNiMoN6257

	Bur Head Ø	Maximum Operating Speed	Speed Range	Suggested Air Tools
INOX	1/8"	100,000	60,000 - 80,000	SP75R-IMP / ST100-IMP
	1/4"	65,000	30,000 - 45,000	SD45LR-IMP / S50-IMP
	3/8"	55,000	19,000 - 30,000	SD30LR-IMP / SD37LR-IMP
	1/2"	35,000	15,000 - 22,000	SMD25LR-CA-IMP / SM25LR-CA-IMP

Recommended speeds are based on standard shank length of 1 3/4" max overhang of 3/8"

Front & Rear Exhaust options available for certain models. Refer to ATA Air Tool catalog.

NOTES



sgspro



Steel Range





sgspro STEEL RANGE

SGSPRO Steel Range has a specially designed geometry to suit growing market demands for steel and cast steel applications. This is a cost effective alternative to standard solutions due a greater rate of stock removal.

Features & Benefits

- Specifically developed geometry - Increasing machining output on Steel components compared to Standard Cut, Omega Cut and Double Cut
- Aggressive cutting form - producing large chips with increased stock removal
- Specifically engineered steel cutting geometry - generating lower heat at cutting edge
- CNC Machined - high consistent quality
- Combination of ATA air tool with Steel cut geometry - gives a guaranteed smoother grinding operation
- Manufactured to strict quality control standards - Incorporates 100% inspection of brazed joints



Wear Eye Protection!



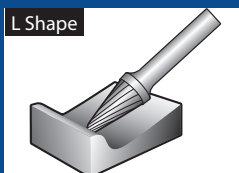
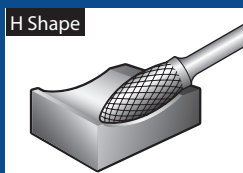
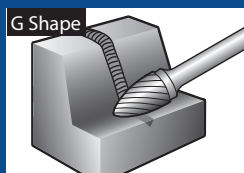
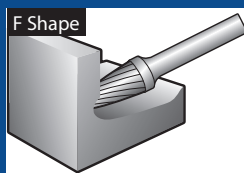
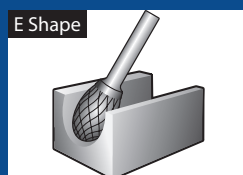
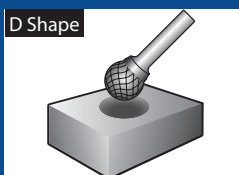
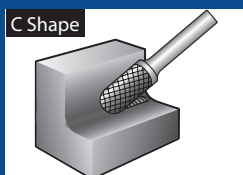
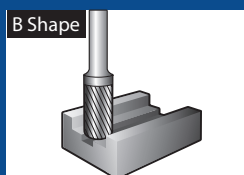
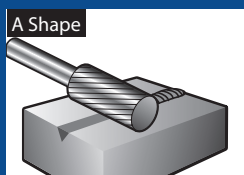
Wear Hearing Protection!



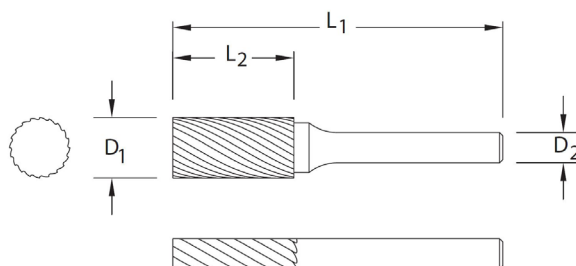
Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



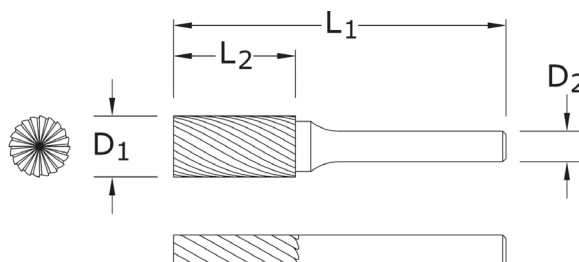
STEEL RANGE A, ZYA, SA



Steel A, ZYA, SA - Cylinder without Endcut

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Steel Part No.
SA-1	1/4	5/8	1/4	2	19350
SA-2	5/16	3/4	1/4	2-1/2	19351
SA-3	3/8	3/4	1/4	2-1/2	19352
SA-5	1/2	1	1/4	2-3/4	19353

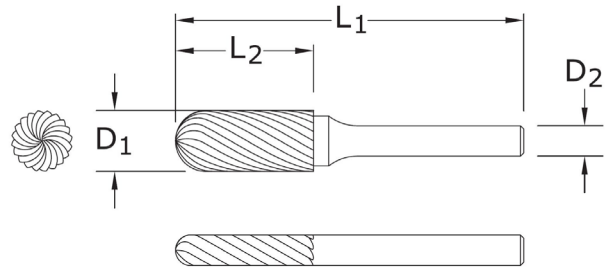
STEEL RANGE B, ZYAS, SB



Steel B, ZYAS, SB - Cylinder with Endcut

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Steel Part No.
SB-1	1/4	5/8	1/4	2	19354
SB-2	5/16	3/4	1/4	2-1/2	19355
SB-3	3/8	3/4	1/4	2-1/2	19356
SB-5	1/2	1	1/4	2-3/4	19357

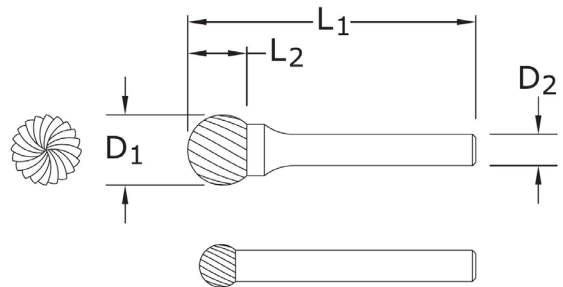
STEEL RANGE C, WRC, SC



Steel C, WRC, SC - Ball Nosed Cylinder

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Steel Part No.
SC-1	1/4	5/8	1/4	2	19362
SC-2	5/16	3/4	1/4	2-1/2	19363
SC-3	3/8	3/4	1/4	2-1/2	19364
SC-5	1/2	1	1/4	2-3/4	19365

STEEL RANGE D, KUD, SD

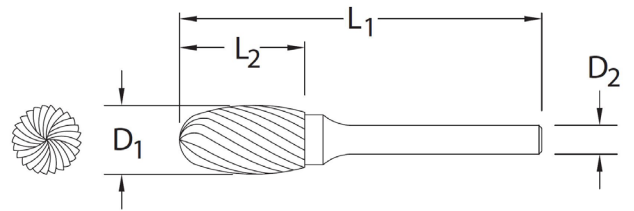


Steel D, KUD, SD - Ball Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Steel Part No.
SD-1	1/4	7/32	1/4	2	19358
SD-2	5/16	1/4	1/4	2	19359
SD-3	3/8	5/16	1/4	2-1/16	19360
SD-5	1/2	7/16	1/4	2-1/8	19361



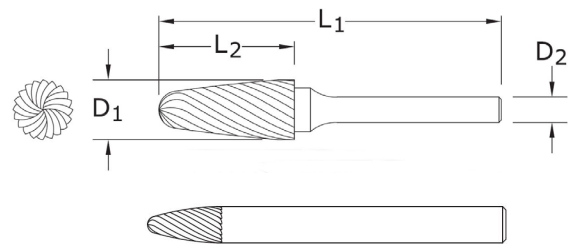
STEEL RANGE E, TRE, SE



Steel E, TRE, SE - *Oval Shape*

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Steel Part No.
SE-5	1/2	7/8	1/4	2-5/8	19379

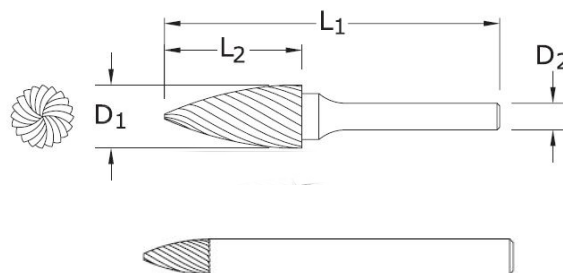
STEEL RANGE F, RBF, SF



Steel F, RBF, SF - *Ball Nosed Tree Shape*

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Steel Part No.
SF-1	1/4	5/8	1/4	2	19375
SF-3	3/8	3/4	1/4	2-1/2	19377
SF-5	1/2	1	1/4	2-3/4	19378

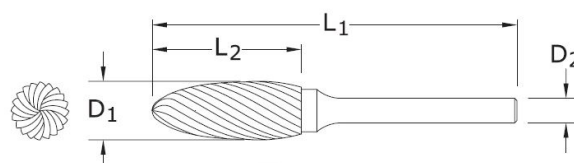
STEEL RANGE G, SPG, SG



Steel G, SPG, SG - Point Tree Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Steel Part No.
SG-1	1/4	5/8	1/4	2	19366
SG-2	5/16	3/4	1/4	2-1/2	19367
SG-3	3/8	3/4	1/4	2-1/2	19368
SG-5	1/2	1	1/4	2-3/4	19369

STEEL RANGE H, SH

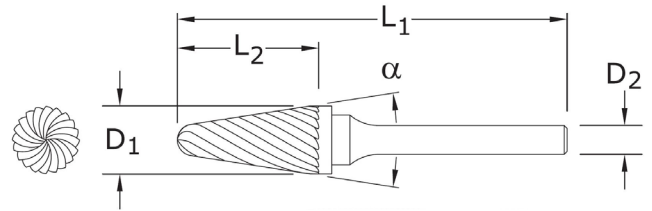


Steel H, SH - Flame Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Cut - Steel Part No.
SH-2	5/16	3/4	1/4	2-1/2	19370
SH-5	1/2	1-1/4	1/4	3	19371



STEEL RANGE L, KEL, SL



STEEL

STEEL L, KEL, SL - Ball Nosed Cone Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	Cut - Steel Part No.
SL-3	3/8	1-1/16	1/4	3	14°	19373
SL-4	1/2	1-1/8	1/4	3	14°	19374

STEEL RANGE SETS

Features & Benefits - Steel Set

FEATURES

Compact
Versatile assortment

BENEFITS

Easy to carry
Ideal for demonstrations, samplings
or special promotions



Line	Description Type	Type	Contents	Cut - Steel Part No.
Sets	BUR5 STEEL	5pcs STEEL CUT	19357; 19365; 19378; 19369; 19374	19380

STEEL RANGE SPEED GUIDE

STEEL CONDITION	N/mm2	Material Types
Non Hardened or treated Steel	<1200	Construction steels; Structural steels, Carbon steels, Tool steels
Hardened or treated Steel	>1200	Alloy steel; Hardened and Tempered steel

STEEL	Burr Head Ø	Maximum Operating Speed	Speed Range	Suggested Air Tools
	1/8"	100,000	60,000 - 80,000	SP75R-IMP / ST100-IMP
	1/4"	65,000	45,000 - 60,000	SD45LR-IMP / S50-IMP
	3/8"	55,000	30,000 - 40,000	SD30LR-IMP / SD37LR-IMP
	1/2"	35,000	22,000 - 30,000	SMD25LR-CA-IMP / SM25LR-CA-IMP

Recommended speeds are based on standard shank length of 1 3/4" max overhang of 3/8"

Front & Rear Exhaust options available for certain models. Refer to ATA Air Tool catalog.

NOTES



sgspro



Base Metal Range



sgspro BASE METAL RANGE (BM)

Introducing the new Base Metal Bur range from ATA.

Designed specifically for general deburring applications on metals less than 250 HB*.

The geometry has been specifically designed for use on Low Carbon Steels, Copper and Brass materials.

Features & Benefits:

Advanced cutting geometry

- Allowing rapid stock removal
- Increasing production output
- Resulting in a smoother operation
- Breaking down the material removed efficiently

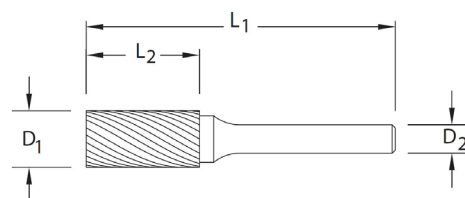
CNC Machined

- High consistent quality

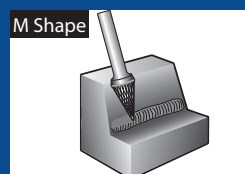
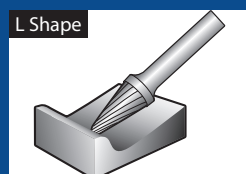
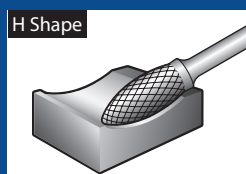
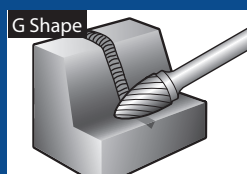
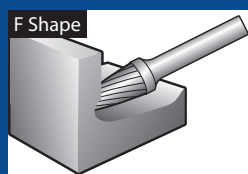
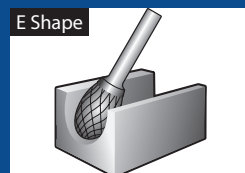
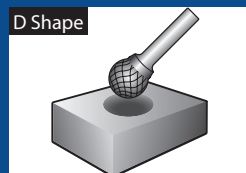
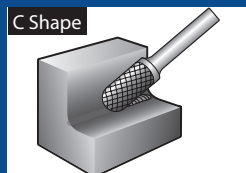
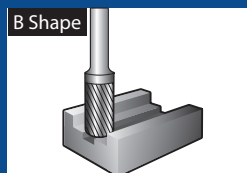
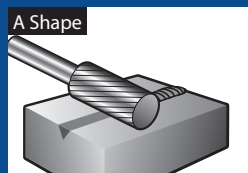
Combination of an ATA air tool with a Base Metal geometry –

- Delivering a guaranteed smoother grinding operation
- Maximizes productivity

*Hardness Brinell



D1	Cutting Diameter
L2	Length of Cut
D2	Shank Diameter
L1	Overall Length



BASE METAL RANGE SA, SB, SC

SHAPE SA



Cylinder without Endcut - Shape SA

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SA-2	5/16	3/4	1/4	2-1/2	30300
SA-3	3/8	3/4	1/4	2-1/2	30310
SA-5	1/2	1	1/4	2-3/4	30320

SHAPE SB



Cylinder with Endcut - Shape SB

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SB-2	5/16	3/4	1/4	2-1/2	30330
SB-3	3/8	3/4	1/4	2-1/2	30340
SB-5	1/2	1	1/4	2-3/4	30350

SHAPE SC



Ball Nosed Cylinder - Shape SC

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SC-2	5/16	3/4	1/4	2-1/2	30360
SC-3	3/8	3/4	1/4	2-1/2	30370
SC-5	1/2	1	1/4	2-3/4	30380



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



Wear Protective Mask

SHAPE SD



Ball Shape - Shape SD

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SD-2	5/16	1/4	1/4	2	30390
SD-3	3/8	5/16	1/4	2-1/16	30400
SD-5	1/2	7/16	1/4	2-1/8	30410

SHAPE SE



Oval Shape - Shape SE

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SE-3	3/8	5/8	1/4	2-3/8	30420
SE-5	1/2	7/8	1/4	2-5/8	30430

SHAPE SF



Ball Nosed Tree - Shape SF

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SF-3	3/8	3/4	1/4	2-1/2	30440
SF-5	1/2	1	1/4	2-3/4	30450

SHAPE SG



Pointed Tree - Shape SG

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SG-2	5/16	3/4	1/4	2-1/2	30460
SG-3	3/8	3/4	1/4	2-1/2	30470
SG-5	1/2	1	1/4	2-3/4	30480

SHAPE SH



Flame - Shape SH

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SH-5	1/2	1-1/4	1/4	3	30490

SHAPE SL



Ball Nosed Cone - Shape SL

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SL-2	5/16	7/8	1/4	2-3/4	30500
SL-3	3/8	1-1/16	1/4	3	30510
SL-4	1/2	1-1/8	1/4	3	30520



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



Wear Protective Mask

SHAPE SM



Cone Shape - Shape SM

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SM-4	3/8	5/8	1/4	2-1/2	30530
SM-5	1/2	1	1/4	2-3/4	30540

BM RANGE SPEED GUIDE

	Material Groups	HB*	B.S	EN	DIN
Steel	Magnetic Soft	<120	230M07, 050A12	EN1, EN2 Leadloy	RFe60
	Structural case carburising	<200	060A35, 080M40, 4360-50B	EN3A, 4,6,7,8 32	st37-2, 16MnCr5, St50-2
Cast Iron	Lameller graphite	<150	grade 150, grade 400	Grey cast iron soft	GG10, GG40
	Nodular graphite, malleable	<200	420/12, P440/7, 700/2, 30g/72	S.G. iron Mehanite	GGG40, GGG70, GTS45-
Brass, Copper, Bronze	Unalloyed	<100	C101	Commercially Pure	E-Cu57, SE-Cu
	β - Brass, Bronze	<200	CZ120, CZ109, PB104	2.1030, 2.1080	CuZn39Pb2, CuZn40
	Y - Brass	<200	CZ108, CZ106		CuZn37, CuZn28

Head Diameter	1/4"	5/16"	3/8"	1/2"	Suggested Air Tool Ranges
Max. RPM	65,000	60,000	55,000	35,000	
Steel	35,000 - 45,000	30,000 - 40,000	22,500 - 35,000	20,500 - 30,000	S, SD, SM & SMD Die Grinder Ranges
Cast Iron	22,500 - 45,000	20,000 - 40,000	15,000 - 35,000	11,000 - 30,000	
Brass, Copper, Bronze	22,500 - 45,000	20,000 - 40,000	15,000 - 35,000	11,000 - 30,000	

*Hardness Brinell

Recommended speeds are based on standard shank length of 1-3/4" max overhang of 3/8"

Maximum recommended speeds for extended length shanks is 15,000rpm

Please note that all cuts available are not displayed in this product catalog. Please contact ATA Customer Service to discuss your specific requirements.



- For your most challenging applications and materials
- Maximize your productivity

PERFORMANCE

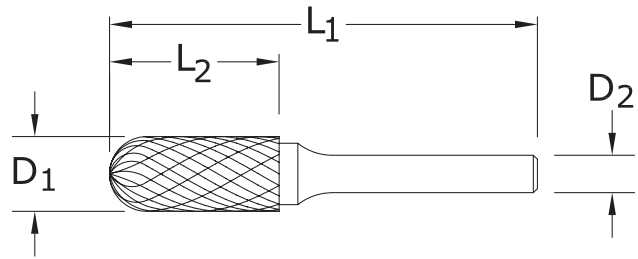
RANGE



Features & Benefits - OMEGA - DDC

FEATURES & BENEFITS

- Enhanced geometry and deep flute configuration for increased tooth strength
- Longer tool life vs. conventional burs
- Maximum stock removal
- Improved productivity and cost savings



Omega

Series	Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Uncoated EDP No.	Coated EDP No.
SA	SA-3 DDC	3/8	3/4	1/4	2-1/2	10269	10304
SA	SA-3L6 DDC	3/8	3/4	1/4	6-3/4	10329	10354
SA	SA-5 DDC	1/2	1	1/4	2-3/4	10270	10305
SA	SA-5L6 DDC	1/2	1	1/4	7	10337	10355
SA	SA-5 3/8 DDC	1/2	1	3/8	3	10271	10306
SB	SB-3 DDC	3/8	3/4	1/4	2-1/2	10272	10307
SB	SB-5 DDC	1/2	1	1/4	2-3/4	10273	10308
SB	SB-5 3/8 DDC	1/2	1	3/8	3	10274	10309
SC	SC-3 DDC	3/8	3/4	1/4	2-1/2	10275	10310
SC	SC-3L6 DDC	3/8	3/4	1/4	6-3/4	10338	10356
SC	SC-5 DDC	1/2	1	1/4	2-3/4	10276	10311
SC	SC-5L6 DDC	1/2	1	1/4	7	10339	10357
SC	SC-5 3/8 DDC	1/2	1	3/8	2-3/4	10277	10312
SC	SC-6 3/8 DDC	5/8	1	3/8	3	10278	10313
SD	SD-3 DDC	3/8	5/16	1/4	2-1/16	10279	10314
SD	SD-3L6 DDC	3/8	5/16	1/4	6-5/16	10340	10358
SD	SD-5 DDC	1/2	7/16	1/4	2-3/16	10280	10315
SD	SD-5L6 DDC	1/2	7/16	1/4	6-7/16	10341	10359
SD	SD-5 3/8 DDC	1/2	7/16	3/8	2-1/2	10281	10316
SE	SE-3 DDC	3/8	5/8	1/4	2-3/8	10282	10317



Recommended Air Tools

FEATURES

Heavy Duty & Access

TOOL

Die Grinders



Wear Eye
Protection!



Wear Hearing
Protection!



Observe the recommended
rotational speed, especially when
using burs with long shanks!



Wear Protective
Gloves



Omega

Series	Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Uncoated EDP No.	Coated EDP No.
SE	SE-3L6 DDC	3/8	5/8	1/4	6-5/8	10342	10360
SE	SE-5 DDC	1/2	7/8	1/4	2-9/16	10283	10318
SE	SE-5L6 DDC	1/2	7/8	1/4	6-7/8	10343	10361
SE	SE-5 3/8 DDC	1/2	7/8	3/8	2-7/8	10284	10319
SF	SF-3 DDC	3/8	3/4	1/4	2-1/2	10285	10320
SF	SF-3L6 DDC	3/8	3/4	1/4	6-3/4	10344	10362
SF	SF-5 DDC	1/2	1	1/4	2-3/4	10286	10321
SF	SF-5L6 DDC	1/2	1	1/4	7	10345	10363
SF	SF-5 3/8 DDC	1/2	1	3/8	3	10287	10322
SF	SF-6 3/8 DDC	5/8	1	3/8	3	10288	10323
SG	SG-3 DDC	3/8	3/4	1/4	2-1/2	10289	10324
SG	SG-3L6 DDC	3/8	3/4	1/4	6-3/4	10346	10364
SG	SG-5 DDC	1/2	1	1/4	2-3/4	10290	10325
SG	SG-5L6 DDC	1/2	1	1/4	7	10347	10365
SG	SG-5 3/8 DDC	1/2	1	3/8	3	10291	10326
SG	SG-6 3/8 DDC	5/8	1	3/8	3	10292	10327
SH	SH-5 DDC	1/2	1-1/4	1/4	3	10293	10330
SH	SH-5L6 DDC	1/2	1-1/4	1/4	7-1/4	10348	10366
SH	SH-5 3/8 DDC	1/2	1-1/4	3/8	3-1/4	10294	10331
SL	SL-3 DDC	3/8	1-1/16	1/4	3	10295	10332
SL	SL-3L6 DDC	3/8	1-1/16	1/4	7-1/16	10349	10367
SL	SL-4 DDC	1/2	1-1/8	1/4	3	10296	10333
SL	SL-4L6 DDC	1/2	1-1/8	1/4	7-1/8	10351	10368
SL	SL-4 3/8 DDC	1/2	1-1/8	3/8	3	10297	10334
SM	SM-5 DDC	1/2	7/8	1/4	2-3/4	10298	10335
SM	SM-5 3/8 DDC	1/2	7/8	3/8	3	10299	10336

Features & Benefits - G2000

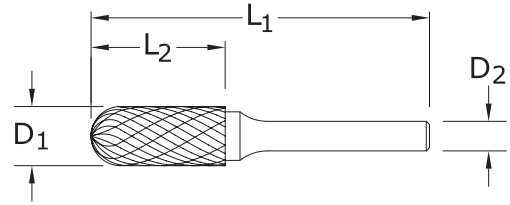
FEATURES

Design for aerospace

Good finish & high stock removal
Specific rake angle

BENEFITS

Outperform standard cuts in complex alloys
Respond to complex application
Suitable for very hard material and increase life while keeping sharpness



G2000

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Uncoated EDP No.	Coated EDP No.
Cylinder						
SA-43G D/C	1/8	9/16	1/8	1-1/2	19200	19240
SA-51G D/C	1/4	1/2	1/8	2	19201	19241
SA-3G D/C	3/8	3/4	1/4	2-1/2	19203	19243
SA-5G D/C	1/2	1	1/4	2-3/4	19204	19244
SA-51G D/C E/C	1/4	1/2	1/8	2	19202	19242
Cylinder with End Cut						
SB-43 G D/C	1/8	9/16	1/8	1-1/2	19205	19245
Cylinder Shape with Radius End						
SC-41G D/C	3/32	7/16	1/8	1-1/2	19206	19246
SC-42G D/C	1/8	9/16	1/8	1-1/2	19207	19247
SC-42GL2 D/C	1/8	9/16	1/8	2	19208	19248
SC-42GL3 D/C	1/8	9/16	1/8	3	19209	19249
SC-51G D/C	1/4	1/2	1/8	2	19210	19250
SC-3G D/C	3/8	3/4	1/4	2-1/2	19211	19251
SC-5G D/C	1/2	1	1/4	2-3/4	19212	19252
Ball Shape						
SD-42G D/C	1/8	3/32	1/8	1-1/2	19213	19253
SD-51G D/C	1/4	7/32	1/8	1-3/4	19214	19254
SD-3G D/C	3/8	5/16	1/4	2-1/16	19215	19255
SD-5G D/C	1/2	7/16	1/4	2-3/16	19216	19256



Recommended Air Tools

FEATURES

Deburring to finishing

TOOL

Pencil Grinders



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



G2000

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Uncoated EDP No.	Coated EDP No.
Oval Shape						
SE-41G D/C	1/8	7/32	1/8	1-1/2	19217	19257
SE-51G D/C	1/4	3/8	1/8	1-7/8	19218	19258
SE-3G D/C	3/8	5/8	1/4	2-3/8	19219	19259
SE-5G D/C	1/2	7/8	1/4	2-5/8	19220	19260
Tree Shape with Radius End						
SF-42G D/C	1/8	1/2	1/8	1-1/2	19221	19261
SF-42GL2 D/C	1/8	1/2	1/8	2	19222	19262
SF-51G D/C	1/4	1/2	1/8	2	19223	19263
SF-3G D/C	3/8	3/4	1/4	2-1/2	19224	19264
SF-5G D/C	1/2	1	1/4	2-3/4	19225	19265
Tree Shape with Pointed End						
SG-42G D/C	1/8	5/16	1/8	1-1/2	19226	19266
SG-44G D/C	1/8	1/2	1/8	1-1/2	19227	19267
SG-51G D/C	1/4	1/2	1/8	2	19228	19268
SG-3G D/C	3/8	3/4	1/4	2-1/2	19229	19269
SG-5G D/C	1/2	1	1/4	2-3/4	19230	19270
Flame Shape						
SH-41G D/C	1/8	1/4	1/8	1-1/2	19231	19271
SH-5G D/C	1/2	1-1/4	1/4	3	19232	19272
Taper with Radius End						
SL-4G D/C	1/2	1-1/8	1/4	3	19233	19273
Cone Shape						
SM-42G D/C	1/8	7/16	1/8	1-1/2	19234	19274
SM-43G D/C	1/8	5/8	1/8	1-1/2	19235	19275
SM-51G D/C	1/4	1/2	1/8	2-1/8	19236	19276

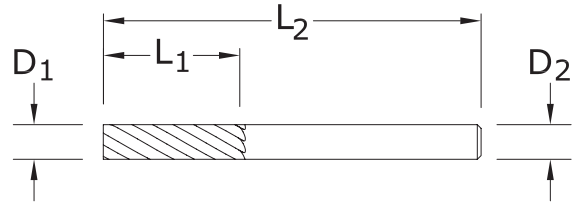
Features & Benefits - MOLD & DIE

FEATURES

Special range
Good finish and high stock removal
Specific rake angle

BENEFITS

Best solution for mold specialists
Respond to complex application
Ideal for hard materials



Mold & Die

Tool No.	Cutting Diameter D1	Length of Cut L1	Shank Diameter D2	Overall Length L2	Included Angle	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SA-41	1/16	1/4	1/8	1-1/2	–	10603	10600
SA-41L2	1/16	1/4	1/8	2	–	17103	17100
SA-41L3	1/16	1/4	1/8	3	–	17128	17125
SA-42	3/32	7/16	1/8	1-1/2	–	10628	10625
SA-42L2	3/32	7/16	1/8	2	–	17153	17150
SA-42L3	3/32	7/16	1/8	3	–	17178	17175
SA-43	1/8	9/16	1/8	1-1/2	–	10653	10650
SA-43L2	1/8	9/16	1/8	2	–	17203	17200
SA-43L3	1/8	9/16	1/8	3	–	17228	17225
SB-41	1/16	1/4	1/8	1-1/2	–	11453	11450
SB-41L2	1/16	1/4	1/8	2	–	17253	17250
SB-41L3	1/16	1/4	1/8	3	–	17278	17275
SB-42	3/32	7/16	1/8	1-1/2	–	11478	11475
SB-42L2	3/32	7/16	1/8	2	–	17303	17300
SB-42L3	3/32	7/16	1/8	3	–	17328	17325



Recommended Air Tools

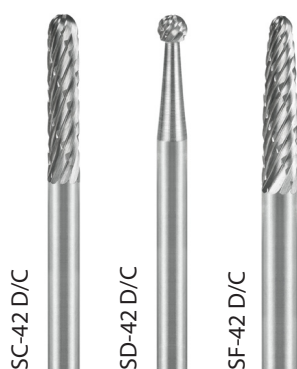
FEATURES

Deburring to finishing

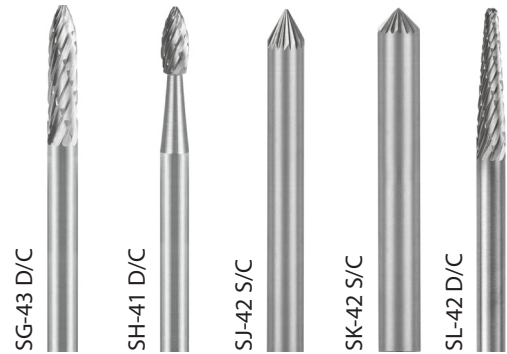
TOOL

Pencil Grinders





Mold & Die							
Tool No.	Cutting Diameter D1	Length of Cut L1	Shank Diameter D2	Overall Length L2	Included Angle	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SB-ECO	1/8	–	1/8	1-1/2	–	–	11525
SB-43	1/8	9/16	1/8	1-1/2	–	11503	11500
SB-43L2	1/8	9/16	1/8	2	–	17353	17350
SB-43L3	1/8	9/16	1/8	3	–	17378	17375
SC-41	3/32	7/16	1/8	1-1/2	–	12253	12250
SC-42	1/8	9/16	1/8	1-1/2	–	12278	12275
SC-42L2	1/8	9/16	1/8	2	–	17453	17450
SC-42L3	1/8	9/16	1/8	3	–	17478	17475
SD-41	3/32	3/32	1/8	1-1/2	–	12778	12775
SD-42	1/8	1/8	1/8	1-1/2	–	12803	12800
SD-42L2	1/8	1/8	1/8	2	–	17553	17550
SD-42L3	1/8	1/8	1/8	3	–	17578	17575
SE-41	1/8	7/32	1/8	1-1/2	–	13153	13150
SE-41L2	1/8	7/32	1/8	2	–	17603	17600
SE-41L3	1/8	7/32	1/8	3	–	17628	17625



Mold & Die

Tool No.	Cutting Diameter D1	Length of Cut L1	Shank Diameter D2	Overall Length L2	Included Angle	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SF-41	1/8	1/4	1/8	1-1/2	–	13678	13675
SF-42	1/8	1/2	1/8	1-1/2	–	13703	13700
SF-42L2	1/8	1/2	1/8	2	–	17653	17650
SF-42L3	1/8	1/2	1/8	3	–	17678	17675
SG-41	1/8	1/4	1/8	1-1/2	–	14153	14150
SG-43	1/8	3/8	1/8	1-1/2	–	14203	14200
SG-44	1/8	1/2	1/8	1-1/2	–	14228	14225
SG-44L2	1/8	1/2	1/8	2	–	17853	17850
SG-44L3	1/8	1/2	1/8	3	–	17878	17875
SH-41	1/8	1/4	1/8	1-1/2	–	14553	14550
SH-41L2	1/8	1/4	1/8	2	–	17903	17900
SH-41L3	1/8	1/4	1/8	3	–	17928	17925
SJ-42	1/8	3/32	1/8	1-1/2	60°	14903	14900



Recommended Air Tools

FEATURES

Deburring to finishing

TOOL

Pencil Grinders





Mold & Die

Tool No.	Cutting Diameter D1	Length of Cut L1	Shank Diameter D2	Overall Length L2	Included Angle	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SK-42	1/8	1/16	1/8	1-1/2	90°	15153	15150
SL-41	1/8	3/8	1/8	1-1/2	8°	15403	15400
SL-42	1/8	1/2	1/8	1-1/2	8°	15428	15425
SL-42L2	1/8	1/2	1/8	2	8°	17953	17950
SL-42L3	1/8	1/2	1/8	3	8°	17978	17975
SM-41	1/8	11/32	1/8	1-1/2	12°	15678	15675
SM-42	1/8	7/16	1/8	1-1/2	14°	15703	15700
SM-42L2	1/8	7/16	1/8	2	14°	18053	18050
SM-42L3	1/8	7/16	1/8	3	14°	18078	18075
SM-43	1/8	5/8	1/8	1-1/2	7°	15728	15725
SN-41	3/32	1/8	1/8	1-1/2	10°	16028	16025
SN-42	1/8	3/16	1/8	1-1/2	10°	16053	16050

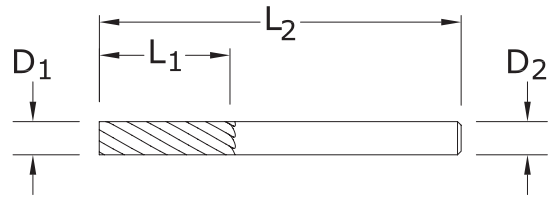
Features & Benefits - MOLD & DIE

FEATURES

Special range
Good finish and high stock removal

BENEFITS

Best solution for mold specialists
Unparalleled performance meeting the demands of challenging materials
Ideal for hard material



Mold & Die 5

Tool No.	Cutting Diameter D1	Length of Cut L1	Shank Diameter D2	Overall Length L2	Included Angle	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SA-51	1/4	1/2	1/8	2	–	10678	10675
SB-51	1/4	3/16	1/8	1-3/4	–	11553	11550
SC-51	1/4	1/2	1/8	2	–	12303	12300
SD-51	1/4	7/32	1/8	1-3/4	–	12828	12825
SE-51	1/4	3/8	1/8	1-7/8	–	13178	13175
SF-51	1/4	1/2	1/8	2	–	13728	13725
SG-51	1/4	1/2	1/8	2	–	14253	14250
SM-51	1/4	1/2	1/8	2-3/32	22°	15753	15750
SN-51	1/4	1/4	1/8	1-3/4	10°	16078	16075



Recommended Air Tools

FEATURES

Deburring to finishing

TOOL

Die Grinders



Wear Eye Protection!



Wear Hearing Protection!



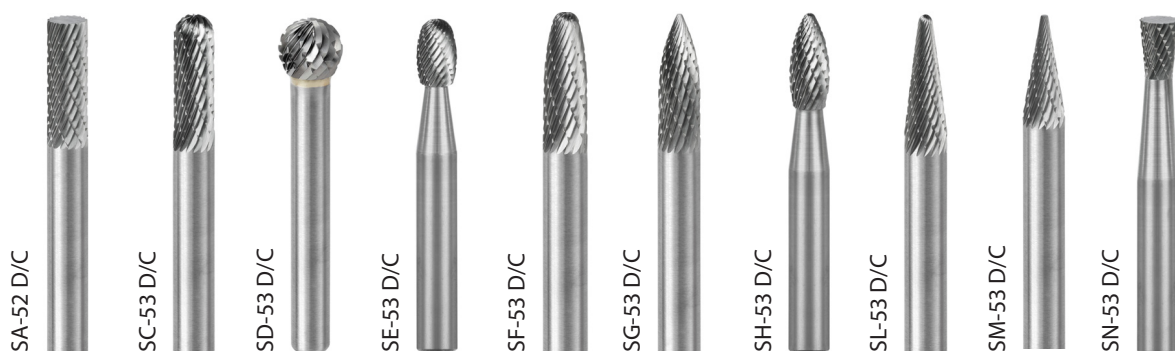
Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves

Mold & Die 5

Tool No.	Cutting Diameter D1	Length of Cut L1	Shank Diameter D2	Overall Length L2	Included Angle	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SA-52	5/32	1/2	1/8	1-1/2	–	10703	10700
SA-53	3/16	1/2	1/8	1-1/2	–	10728	10725
SC-52	5/32	1/2	1/8	1-1/2	–	12328	12325
SC-53	3/16	1/2	1/8	1-1/2	–	12353	12350
SD-52	5/32	5/32	1/8	1-1/2	–	12840	12837
SD-53	3/16	5/32	1/8	1-1/2	–	12853	12850
SE-53	3/16	9/32	1/8	1-1/2	–	13203	13200
SF-53	3/16	1/2	1/8	1-1/2	–	13753	13750
SG-53	3/16	1/2	1/8	1-1/2	–	14278	14275
SH-53	3/16	3/8	1/8	1-1/2	–	14603	14600
SL-53	3/16	1/2	1/8	1-1/2	14°	15453	15450
SM-53	3/16	1/2	1/8	1-1/2	16°	15778	15775
SN-53	3/16	1/4	1/8	1-1/2	10°	16103	16100



NOTES



sgspro



New Geometry Burs



sgspro RADIUS LINE

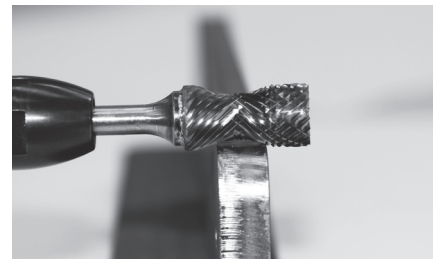
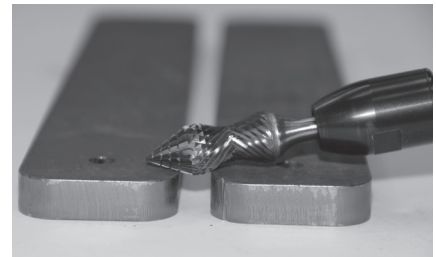
THE RADIUS BUR

an added dimension in finishing technology

This exclusive range of multi-application burs will cover almost all your general metal removal work. With an exclusive inverted curve design, this innovative range of burs provides a versatility that makes these burs suitable for use across a wide range of jobs and reduces the need for consumable and tool changes, saving you time as well as money.

Features & Benefits

- Unique Inverted Curve - Ideal for creating a smooth radius on sharp corners
- Unique Guide System - Ease of control on sharp edges
- Special Tooth Geometry - Smooth cutting action using all faces and rapid material removal
- CNC Machined - High consistent quality
- Manufactured from High Quality Sintered Tungsten Carbide - Guaranteed high performance and durability
- Manufactured to strict quality control standards - Incorporates 100% inspection of brazed joints
- Versatile - Can be used on a wide variety of materials e.g. titanium, bronze, stainless steel, cast iron, brass, etc



Wear Eye Protection!



Wear Hearing Protection!

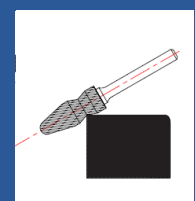
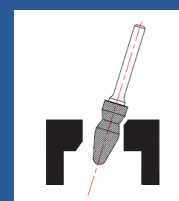
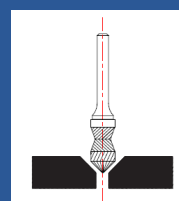
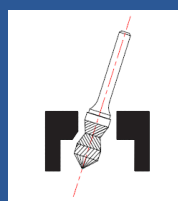
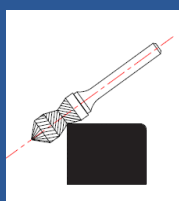
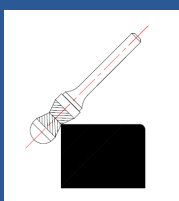
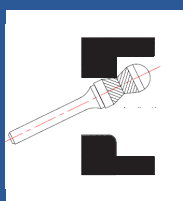


Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves

Applications



RADIUS BUR SPECIFICATIONS

	Description	Cutting Diameter	Length of Cut	Shank Diameter	Overall Length	Included Angle	Double Cut 6 EDP No.
	SA-5RA D/C BUR	1/2	1	1/4	2-3/4		11755
	SB-5RA D/C BUR	1/2	1	1/4	2-3/4		11756
	SC-5RA C BUR	1/2	1	1/4	2-3/4		11757
	SC-5RA C BUR	1/2	1	1/4	2-3/4		11758
	SC-5RA D/C BUR	1/2	1	1/4	2-3/4		11759
	SF-5RA D/C BUR	1/2	1-1/4	1/4	3-1/4		11760
	SG-5RA D/C BUR	1/2	1-1/4	1/4	3-1/4		11761
	SJ-5RA D/C BUR	1/2	1-1/4	1/4	3		11762
	SK-5RA D/C BUR	1/2	1-1/8	1/4	3		11763
	SL-5RA D/C BUR	1/2	1-1/4	1/4	3-1/4	14°	11764

BUR SETS **RADIUS**

Radius Bur Line
10 Piece Radius Application Set
Imperial Code - BUR10RA 18225



SA-5RA D/C BUR
SB-5RA D/C BUR
SC-5RA C BUR
SC-5RA C BUR
SC-5RA D/C BUR
SF-5RA D/C BUR
SG-5RA D/C BUR
SJ-5RA D/C BUR
SK-5RA D/C BUR
SL-5RA D/C BUR

Radius Bur Line
5 Piece Chamfer Application Set
Imperial Code - BUR5RA 18220



SB-5RA D/C BUR
SC-5RA D/C BUR
SF-5RA D/C BUR
SK-5RA D/C BUR
SK-6CO C BUR

sgspro COMBI BUR LINE

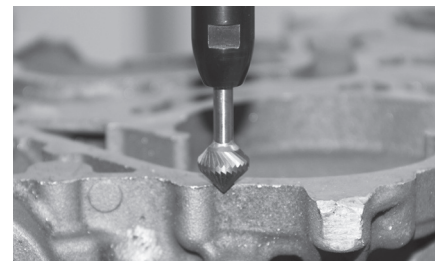
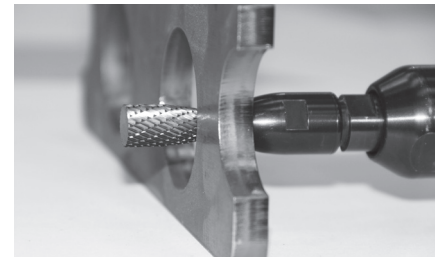
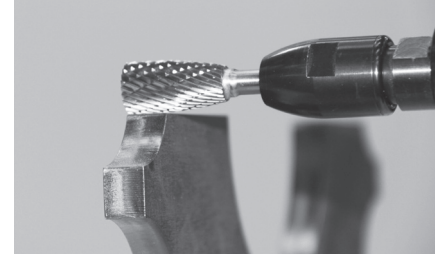
THE COMBI BUR

versatility to suit almost any application

Just like any multi-tool in the DIY sector, there are now high performance multi-purpose burs for the industry! The combi bur line has been developed to reduce downtime and cover multi-application processes for metal removal. These exclusive new shapes will cover your deburring, edging and blending work in one simple bur solution. This range is ideal for complex parts where different shapes are required. The combi bur will maximize your productivity!

Features & Benefits

- Reduced downtime for the end user
- Special Tooth Geometry manufactured using the latest CNC machines
- The highest Quality Sintered Tungsten Carbide is used to ensure consistent performance
- A versatile bur to be used on a wide range of materials and processes
- 14 EXCLUSIVE new combination shaped burs to suit all your complex applications!



Wear Eye Protection!



Wear Hearing Protection!

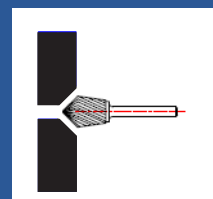
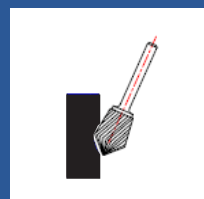
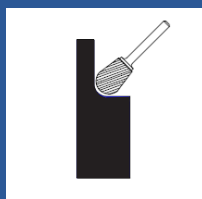
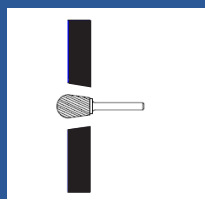
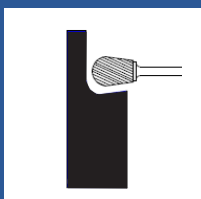
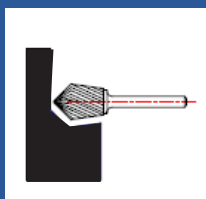


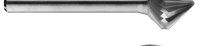
Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves

Applications



	Description	Cutting Diameter	Length of Cut	Shank Diameter	Overall Length	Included Angle	Double Cut (D/C 6) EDP No.
	SA-5CO D/C BUR	1/2	1	1/4	2-3/4		15855
	SB-5CO D/C BUR	1/2	1	1/4	2-3/4		15856
	SD-5CO C BUR	1/2	3/4	1/4	2-1/2		15857
	SD-5CO D/C BUR	1/2	3/4	1/4	2-1/2		15858
	SF-5CO D/C BUR	1/2	1-1/4	1/4	3		15859
	SG-5CO D/C BUR	1/2	1-1/4	1/4	3		15860
	SJA-5CO D/C BUR	1/2	1	1/4	2-3/4	60°	15861
	SJN-5CO D/C BUR	1/2	7/8	1/4	2-3/4	60°	15862
	SKA-5CO D/C BUR	1/2	1	1/4	2-3/4	90°	15863
	SNA-5CO D/C BUR	1/2	3/4	1/4	2-1/2	14°	15864
	SK-6CO C BUR	5/8	5/8	1/4	2-3/8		15865
	SL-5CO D/C BUR	1/2	1-1/4	1/4	3		15866
	SM-5CO D/C BUR	1/2	1-1/4	1/4	3-1/4		15867
	SN-5CO D/C BUR	1/2	1	1/4	2-3/4		15868

COMBI BUR SETS **COMBI**

Combi Bur Line
10 Piece Combi Application Set
Imperial Code - BUR10CO 18235



SB-5CO D/C BUR

SD-5CO D/C BUR

SF-5CO D/C BUR

SG-5CO D/C BUR

SJN-5CO D/C BUR

SKA-5CO D/C BUR

SNA-5CO D/C BUR

SL-5CO D/C BUR

SM-5CO D/C BUR

SN-5CO D/C BUR

Combi Bur Line
5 Piece Multi Purpose Set
Imperial Code - BUR5CO 18230



SD-5CO D/C BUR

SJA-5CO D/C BUR

SNA-5CO D/C BUR

SK-6CO C BUR

SN-5CO D/C BUR

sgspro CORNER RADIUS LINE

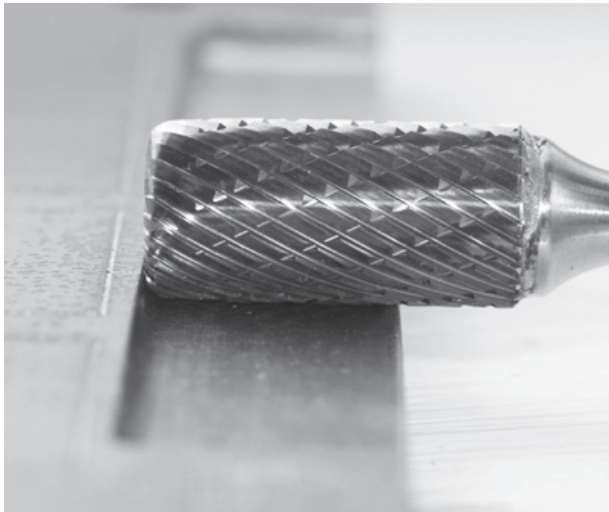
THE CORNER RADIUS

unique design transforms the conventional cylinder bur

The corner radius bur range has been specially developed to meet the highest manufacturing standards of the Aerospace industry. The radius design at the top of the cylinder provides extended tool life. This unique design with its double cut will improve operator control, reduce the size of chips and prevent damage to expensive parts.

Features & Benefits

- Corner radius at the top of the cylinder
- Offers improved flute strength at the head of the bur
- Prevents digging into the work piece at the intersecting point
- Produces a corner radius on the work piece
- Reduces flute chipping at the intersection points



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



CORNER RADIUS SPECIFICATIONS

Description	Cutting Diameter	Length of Cut	Shank Diameter	Overall Length	Double Cut (D/C 6) EDP No.
SA-43CR D/C BUR	1/8	1/8	9/16	1-1/4	10155
SA-1CR D/C BUR	1/4	1/4	3/4	2	10156
SA-2CR D/C BUR	5/16	1/4	3/4	2-1/2	10157
SA-3CR D/C BUR	3/8	1/4	3/4	2-1/2	10158
SA-5CR D/C BUR	1/2	1/4	1	2-3/4	10159
SA-6CR D/C BUR	5/8	1/4	1	2-3/4	10160

BUR SETS **CORNER RADIUS**

Corner Radius Line
6 Piece Corner Radius Set
Imperial Code - BUR6CR 18240



SA-43CR D/C BUR
SA-1CR D/C BUR
SA-2CR D/C BUR
SA-3CR D/C BUR
SA-5CR D/C BUR
SA-6CR D/C BUR

NOTES



sgspro



Fiberglass Routers



sgspro FIBERGLASS ROUTERS

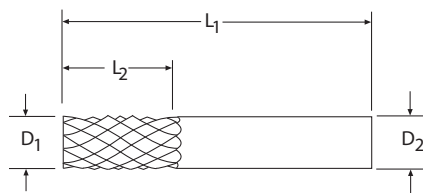
Features

- Special cut style

Benefits

- Best for roughing and contouring composite
- Can be used with hand-held tools or CNC machines
- Can be used on various materials, from large fiberglass panels to small parts made of composite

FRACTIONAL RANGE



Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	No End Cut	Bur Style	Endmill	Drill Point
FGR-1	1/16	3/16	1/8	1-1/2	73001	73015	73030	73045
FGR 1-1	3/32	3/8	1/8	1-1/2	73002	73016	73031	73046
FGR-2	1/8	1/2	1/8	1-1/2	73003	73017	73032	73047
FGR-3	3/16	5/8	3/16	2	73004	73018	73033	73048
FGR-4	3/16	5/8	1/4	2	73005	73019	73034	73049
FGR-5	1/4	3/4	1/4	2	73006	73020	73035	73050
FGR-6	1/4	3/4	1/4	2-1/2	73007	73021	73036	73051
FGR 6-1	1/4	1	1/4	3	73008	73022	73037	73052
FGR-7	5/16	1	5/16	2-1/2	73009	73023	73038	73053
FGR-8	3/8	1	3/8	2-1/2	73010	73024	73039	73054
FGR-9	1/2	1	1/2	3	73011	73025	73040	73055

NO END CUT

Used for profile applications

BUR STYLE

Used for profiling and slotting application

ENDMILL

Used for plunging, slotting and profiling applications where a square corner is required

DRILL POINT

Used for plunging into application prior to starting routing operation

Recommendations

- The routers are recommended for use on phenolics, fiberglass and hard non-metallic materials
- For the best results, FGRs should be rigidly mounted in accurate collet chucks

Applications

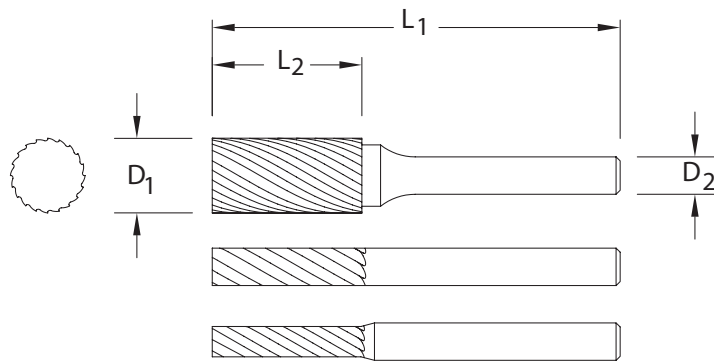
- Trimming
- Routing
- Pocketing





- Solutions for universal applications
- High quality ensuring reliability

UNIVERSAL RANGE



Universal SA - Cylinder Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SA-41	1/16	1/4	1/8	1-1/2	10603	10600	–
SA-41L2	1/16	1/4	1/8	2	17103	17100	–
SA-41L3	1/16	1/4	1/8	3	17128	17125	–
SA-61	1/16	1/4	3/32	1-1/4	10753	10750	–
SA-63	3/32	3/8	3/32	1-1/4	10778	10775	–
SA-42	3/32	7/16	1/8	1-1/2	10628	10625	–
SA-42L2	3/32	7/16	1/8	2	17153	17150	–
SA-42L3	3/32	7/16	1/8	3	17178	17175	–
SA-11	1/8	1/2	1/4	2-1/4	10403	10400	–
SA-43	1/8	9/16	1/8	1-1/2	10653	10650	–
SA-43L2	1/8	9/16	1/8	2	17203	17200	–
SA-43L3	1/8	9/16	1/8	3	17228	17225	–
SA-12	1/8	5/8	1/4	2-3/8	10428	10425	–
SA-52	5/32	1/2	1/8	1-1/2	10703	10700	–
SA-13	5/32	5/8	1/4	2	10453	10450	–
SA-81	3/16	1/2	3/16	2	10803	10800	–
SA-53	3/16	1/2	1/8	1-1/2	10728	10725	–
SA-14	3/16	5/8	1/4	2	10478	10475	–
SA-51	1/4	1/2	1/8	2	10678	10675	–
SA-1	1/4	5/8	1/4	2	10003	10000	–
SA-1L	1/4	1	1/4	2	10028	10025	–
SA-1L6	1/4	5/8	1/4	6-1/2	16178	16175	–



Recommended Air Tools

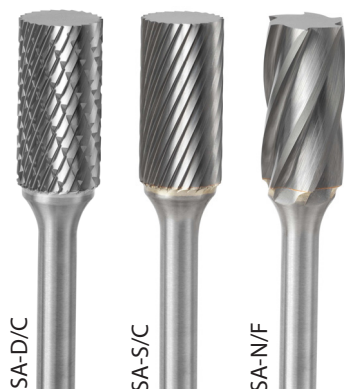
FEATURES

From finishing to
stock removal

TOOL

Die Grinders & Pencil Grinders

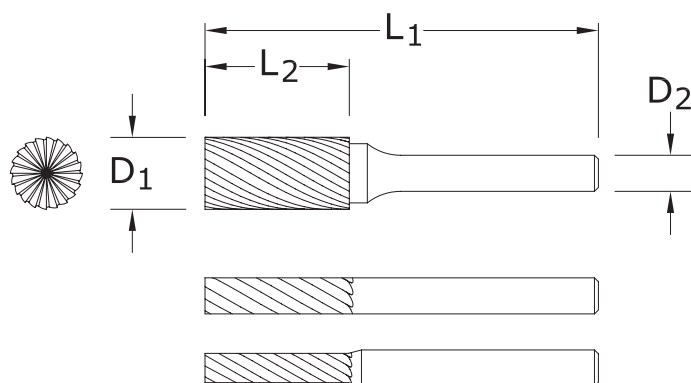




Universal SA - Cylinder Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SA-1NF	1/4	3/4	1/4	2	–	–	19000
SA-2	5/16	3/4	1/4	2-1/2	10053	10050	–
SA-3	3/8	3/4	1/4	2-1/2	10078	10075	–
SA-3L	3/8	1	1/4	2-3/4	10103	10100	–
SA-3L6	3/8	3/4	1/4	6-3/4	16203	16200	–
SA-3NF	3/8	3/4	1/4	2-1/2	–	–	19002
SA-3X	3/8	1-1/2	1/4	3-1/4	10128	10125	–
SA-4	7/16	1	1/4	2-3/4	10153	10150	–
SA-5	1/2	1	1/4	2-3/4	10178	10175	–
SA-5L6	1/2	1	1/4	7	16228	16225	–
SA-5NF	1/2	1	1/4	2-3/4	–	–	19004
*SA-6	5/8	1	1/4	2-3/4	10203	10200	–
*SA-6NF	5/8	1	1/4	2-3/4	–	–	19006
*SA-15	3/4	1/2	1/4	2-1/4	10503	10500	–
*SA-16	3/4	3/4	1/4	2-1/2	10553	10550	–
*SA-7	3/4	1	1/4	2-3/4	10253	10250	–
SA-7NF	3/4	1	1/4	2-3/4	–	–	19008
SA-7NF3/8	3/4	1	3/8	3	–	–	19010
*SA-8	7/8	1	1/4	2-3/4	10303	10300	–
*SA-9	1	1	1/4	2-3/4	10353	10350	–

*3/8 shanks optional



Universal SB - Cylinder Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SB-41	1/16	1/4	1/8	1-1/2	11453	11450	—
SB-41L2	1/16	1/4	1/8	2	17253	17250	—
SB-41L3	1/16	1/4	1/8	3	17278	17275	—
SB-42	3/32	7/16	1/8	1-1/2	11478	11475	—
SB-42L2	3/32	7/16	1/8	2	17303	17300	—
SB-42L3	3/32	7/16	1/8	1-1/2	17328	17325	—
SB-ECO	1/8	—	1/8	1-1/2	—	11525	—
SB-11	1/8	1/2	1/4	2-1/4	11253	11250	—
SB-12	1/8	5/8	1/4	2-3/8	11278	11275	—
SB-43	1/8	9/16	1/8	1-1/2	11503	11500	—
SB-43L2	1/8	9/16	1/8	2	17353	17350	—
SB-43L3	1/8	9/16	1/8	3	17378	17375	—
SB-13	5/32	5/8	1/4	2	11303	11300	—
SB-14	3/16	5/8	1/4	2	10328	10825	—
SB-51	1/4	3/16	1/8	1-3/4	11550	11553	—
SB-1	1/4	5/8	1/4	2	10853	10850	—
SB-1L	1/4	1	1/4	2	10878	10875	—
SB-1NF	1/4	3/4	1/4	2	—	—	19012



Recommended Air Tools

FEATURES

From finishing to
stock removal

TOOL

Die Grinders & Pencil Grinders

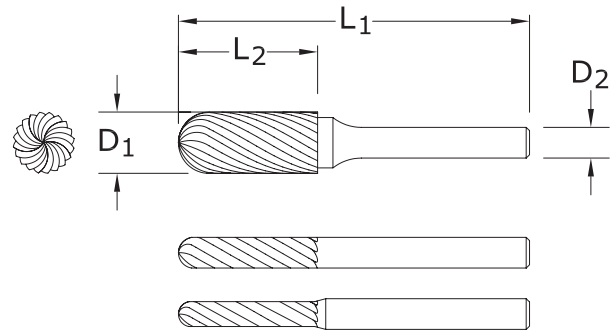




Universal SB - Cylinder Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SB-2	5/16	3/4	1/4	2-1/2	10903	10900	—
SB-3	3/8	3/4	1/4	2-1/2	10928	10925	—
SB-3L	3/8	1	1/4	2-3/4	10953	10950	—
SB-3NF	3/8	3/4	1/4	2-1/2	—	—	19014
SB-3X	3/8	1-1/2	1/4	3-1/4	10978	10975	—
SB-4	7/16	1	1/4	2-3/4	11003	11000	—
SB-5	1/2	1	1/4	2-3/4	11028	11025	—
SB-5NF	1/2	1	1/4	2-3/4	—	—	19016
*SB-6	5/8	1	1/4	2-3/4	11053	11050	—
*SB-6NF	5/8	1	1/4	2-3/4	—	—	19018
*SB-15	3/4	1/2	1/4	2-1/4	11353	11350	—
*SB-16	3/4	3/4	1/4	2-1/2	11403	11400	—
*SB-7	3/4	1	1/4	2-3/4	11103	11100	—
SB-7NF	3/4	1	1/4	2-3/4	—	—	19020
SB-7NF3/8	3/4	1	3/8	3	—	—	19022
*SB-8	7/8	1	1/4	2-3/4	11153	11150	—
*SB-9	1	1	1/4	2-3/4	11203	11200	—

*3/8 shanks optional



Universal SC - Cylinder Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SC-61	3/32	3/8	3/32	1-1/4	12378	12375	–
SC-41	3/32	7/16	1/8	1-1/2	12253	12250	–
SC-11	1/8	1/2	1/4	2-1/4	12053	12050	–
SC-42	1/8	9/16	1/8	1-1/2	12278	12275	–
SC-42L2	1/8	9/16	1/8	2	17453	17450	–
SC-42L3	1/8	9/16	1/8	3	17478	17475	–
SC-12	1/8	5/8	1/4	2-3/8	12078	12075	–
SC-52	5/32	1/2	1/8	1-1/2	12328	12325	–
SC-13	5/32	5/8	1/4	2	12103	12100	–
SC-81	3/16	1/2	3/16	2	12403	12400	–
SC-53	3/16	1/2	1/8	1-1/2	12353	12350	–
SC-14	3/16	5/8	1/4	2	12128	12125	–
SC-51	1/4	1/2	1/8	2	12303	12300	–
SC-1	1/4	5/8	1/4	2	11703	11700	–
SC-1L	1/4	1	1/4	2	11728	11725	–
SC-1L6	1/4	5/8	1/4	6-1/2	16328	16325	–
SC-1NF	1/4	3/4	1/4	2	–	–	19024
SC-2	5/16	3/4	1/4	2-1/2	11753	11750	–



Recommended Air Tools

FEATURES

From finishing to
stock removal

TOOL

Die Grinders & Pencil Grinders



Wear Eye
Protection!



Wear Hearing
Protection!



Observe the recommended
rotational speed, especially when
using burs with long shanks!



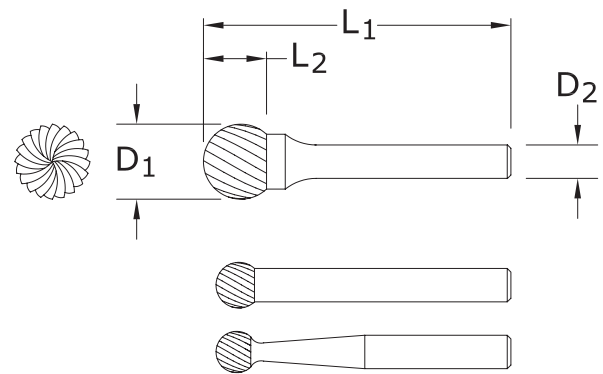
Wear Protective
Gloves



Universal SC - Cylinder Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SC-3	3/8	3/4	1/4	2-1/2	11778	11775	–
SC-3L	3/8	1	1/4	2-3/4	11803	11800	–
SC-3L6	3/8	3/4	1/4	6-3/4	16353	16350	–
SC-3NF	3/8	3/4	1/4	2-1/2	–	–	19026
SC-3X	3/8	1-1/2	1/4	3-1/4	11828	11825	–
SC-4	7/16	1	1/4	2-3/4	11853	11850	–
SC-5	1/2	1	1/4	2-3/4	11878	11875	–
SC-5L6	1/2	1	1/4	7	16378	16375	–
SC-5NF	1/2	1	1/4	2-3/4	–	–	19028
*SC-6	5/8	1	1/4	2-3/4	11903	11900	–
*SC-6NF	5/8	1	1/4	2-3/4	–	–	19030
*SC-15	3/4	1/2	1/4	2-1/4	12153	12150	–
*SC-16	3/4	3/4	1/4	2-1/2	12203	12200	–
*SC-7	3/4	1	1/4	2-3/4	11953	11950	–
SC-7NF	3/4	1	1/4	2-3/4	–	–	19032
SC-7NF3/8	3/4	1	3/8	3	–	–	19034
*SC-9	1	1	1/4	2-3/4	12003	12000	–

*3/8 shanks optional



Universal SD - Ball Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SD-41	3/32	3/32	1/8	1-1/2	12778	12775	–
SD-61	3/32	3/32	3/32	1-1/4	12878	12875	–
SD-11	1/8	3/32	1/4	2	12728	12725	–
SD-42	1/8	1/8	1/8	1-1/2	12803	12800	–
SD-42L2	1/8	1/8	1/8	2	17553	17550	–
SD-42L3	1/8	1/8	1/8	3	17578	17575	–
SD-52	5/32	5/32	1/8	1-1/2	12840	12837	–
SD-14	3/16	1/8	1/4	2	12753	12750	–
SD-81	3/16	5/32	3/16	2	12903	12900	–
SD-53	3/16	5/32	1/8	1-1/2	12853	12850	–
SD-1	1/4	7/32	1/4	2	12453	12450	–
SD-1L6	1/4	7/32	1/4	6-3/16	16403	16400	–
SD-1NF	1/4	7/32	1/4	2	–	–	19036
SD-51	1/4	7/32	1/8	1-3/4	12828	12825	–



Recommended Air Tools

FEATURES

From finishing to stock removal

TOOL

Die Grinders & Pencil Grinders

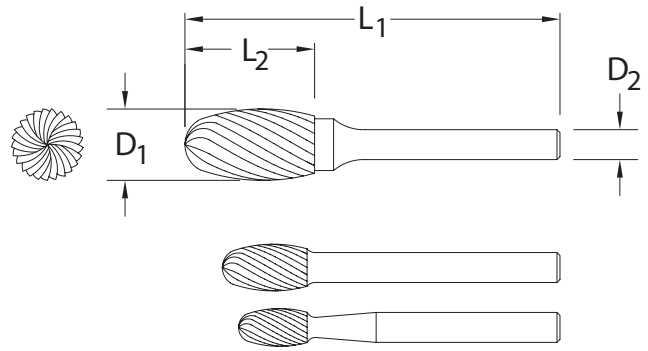




Universal SD - Ball Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SD-2	5/16	1/4	1/4	2	12478	12475	–
SD-3	3/8	5/16	1/4	2-1/16	12503	12500	–
SD-3L6	3/8	5/16	1/4	6-5/16	16428	16425	–
SD-3NF	3/8	5/16	1/4	2-1/16	–	–	19038
SD-4	7/16	3/8	1/4	2-1/8	12528	12525	–
SD-5	1/2	7/16	1/4	2-1/8	12553	12550	–
SD-5L6	1/2	7/16	1/4	6-7/16	16453	16450	–
SD-5NF	1/2	7/16	1/4	2-1/8	–	–	19040
*SD-6	5/8	9/16	1/4	2-1/4	12578	12575	–
*SD-6NF	5/8	9/16	1/4	2-1/4	–	–	19042
*SD-7	3/4	11/16	1/4	2-1/2	12628	12625	–
SD-7NF	3/4	11/16	1/4	2-1/2	–	–	19044
SD-7NF3/8	3/4	11/16	3/8	2-11/16	–	–	19046
*SD-9	1	15/16	1/4	2-7/8	12678	12675	–

*3/8 shanks optional



Universal SE - Oval Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SE-61	3/32	1/8	3/32	1-1/4	13228	13225	—
SE-41	1/8	7/32	1/8	1-1/2	13153	13150	—
SE-41L2	1/8	7/32	1/8	2	17603	17600	—
SE-41L3	1/8	7/32	1/8	3	17628	17625	—
SE-81	3/16	9/32	3/16	2	13253	13250	—
SE-53	3/16	9/32	1/8	1-1/2	13203	13200	—
SE-11	3/16	5/16	1/4	2	13128	13125	—
SE-1	1/4	3/8	1/4	2	12953	12950	—
SE-1L6	1/4	3/8	1/4	6-3/8	16478	16475	—
SE-51	1/4	3/8	1/8	1-7/8	13178	13175	—
SE-3	3/8	5/8	1/4	2-3/8	12978	12975	—
SE-3L6	3/8	5/8	1/4	6-5/8	16503	16500	—
SE-3NF	3/8	5/8	1/4	2-3/8	—	—	19048
SE-5	1/2	7/8	1/4	2-5/8	13003	13000	—
SE-5L6	1/2	7/8	1/4	6-7/8	16528	16525	—
SE-5NF	1/2	7/8	1/4	2-5/8	—	—	19050
*SE-6	5/8	1	1/4	2-3/4	13028	13025	—
*SE-6NF	5/8	1	1/4	2-3/4	—	—	19052
*SE-7	3/4	1	1/4	2-3/4	13078	13075	—
SE-7NF	3/4	1	1/4	2-3/4	—	—	19054
SE-7NF3/8	3/4	1	3/8	2-3/4	—	—	19056

*3/8 shanks optional



Recommended Air Tools

FEATURES

From finishing to
stock removal

TOOL

Die Grinders & Pencil Grinders



Wear Eye
Protection!



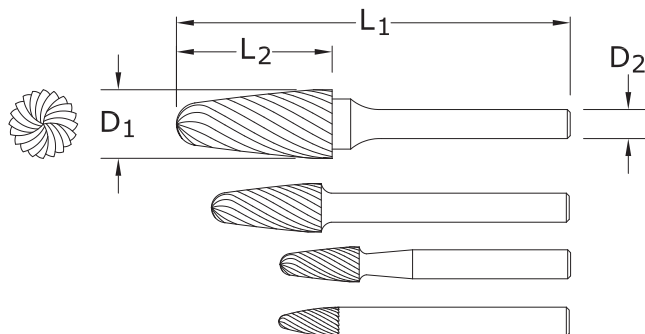
Wear Hearing
Protection!



Observe the recommended
rotational speed, especially when
using burs with long shanks!



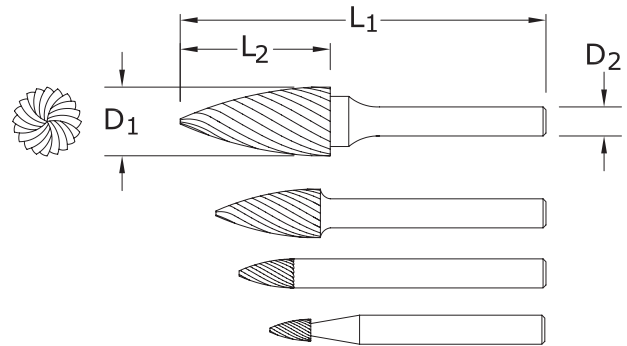
Wear Protective
Gloves


Universal SF - Tree Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SF-61	3/32	1/4	3/32	1-1/4	13778	13775	–
SF-41	1/8	1/4	1/8	1-1/2	13678	13675	–
SF-11	1/8	1/2	1/4	2-1/4	13503	13500	–
SF-42	1/8	1/2	1/8	1-1/2	13703	13700	–
SF-42L2	1/8	1/2	1/8	2	17653	17650	–
SF-42L3	1/8	1/2	1/8	3	17678	17675	–
SF-81	3/16	1/2	3/16	2	13803	13800	–
SF-53	3/16	1/2	1/8	1-1/2	13753	13750	–
SF-51	1/4	1/2	1/8	2	13728	13725	–
SF-1	1/4	5/8	1/4	2	13303	13300	–
SF-1L6	1/4	5/8	1/4	6-1/2	16553	16550	–
SF-1NF	1/4	3/4	1/4	2	–	–	19058
SF-3	3/8	3/4	1/4	2-1/2	13328	13325	–
SF-3L6	3/8	3/4	1/4	6-3/4	16578	16575	–
SF-3NF	3/8	3/4	1/4	2-1/2	–	–	19060
SF-4	7/16	1	1/4	2-3/4	13353	13350	–
SF-13	1/2	3/4	1/4	2-1/2	13528	13525	–
SF-5	1/2	1	1/4	2-3/4	13378	13375	–
SF-5L6	1/2	1	1/4	7	16603	16600	–
SF-5NF	1/2	1	1/4	2-3/4	–	–	19062
*SF-6	5/8	1	1/4	2-3/4	13403	13400	–
*SF-6NF	5/8	1	1/4	2-3/4	–	–	19064
*SF-7	3/4	1	1/4	2-3/4	13453	13450	–
*SF-14	3/4	1-1/4	1/4	3	13578	13575	–
SF-14NF	3/4	1-1/4	1/4	3	–	–	19066
SF-14NF3/8	3/4	1-1/4	3/8	3-1/4	–	–	19068
*SF-15	3/4	1-1/4	1/4	3-1/4	13628	13625	–

*3/8 shanks optional


sgspro



Universal SG - Tree Shape Pointed End

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SG-61	3/32	1/4	3/32	1-1/4	14303	14300	-
SG-41	1/8	1/4	1/8	1-1/2	14153	14150	-
SG-42	1/8	5/16	1/8	1-1/2	14178	14175	-
SG-43	1/8	3/8	1/8	1-1/2	14203	14200	-
SG-44	1/8	1/2	1/8	1-1/2	14228	14225	-
SG-44L2	1/8	1/2	1/8	2	17853	17850	-
SG-44L3	1/8	1/2	1/8	3	17878	17875	-
SG-81	3/16	1/2	3/16	2	14328	14325	-
SG-53	3/16	1/2	1/8	1-1/2	14278	14275	-
SG-1	1/4	5/8	1/4	2	13853	13850	-
SG-1L6	1/4	1/2	1/4	6-1/2	16628	16625	-
SG-51	1/4	1/2	1/8	2	14253	14250	-
SG-2	5/16	3/4	1/4	2-1/2	13878	13875	-
SG-3	3/8	3/4	1/4	2-1/2	13903	13900	-
SG-3L6	3/8	3/4	1/4	6-3/4	16653	16650	-
SG-13	1/2	3/4	1/4	2-1/2	14053	14050	-
SG-5	1/2	1	1/4	2-3/4	13928	13925	-
SG-5L6	1/2	1	1/4	7	16678	16675	-
*SG-6	5/8	1	1/4	2-3/4	13953	13950	-
*SG-7	3/4	1	1/4	2-3/4	14003	14000	-
*SG-15	3/4	1-1/2	1/4	3-1/4	14103	14100	-

*3/8 shanks optional



Recommended Air Tools

FEATURES

From finishing to
stock removal

TOOL

Die Grinders & Pencil Grinders



Wear Eye
Protection!



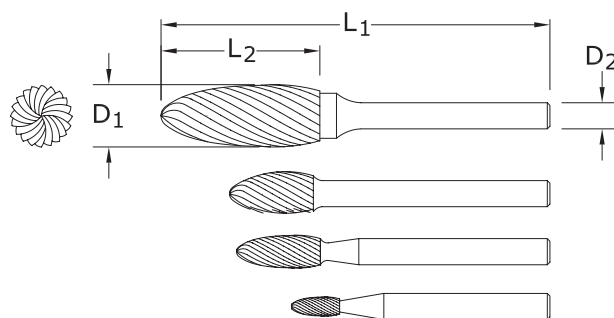
Wear Hearing
Protection!



Observe the recommended
rotational speed, especially when
using burs with long shanks!



Wear Protective
Gloves

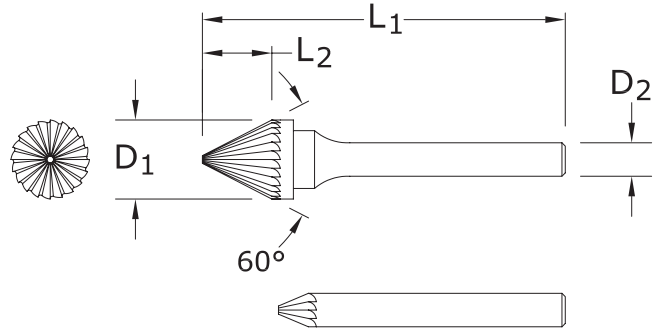


Universal SH - Flame Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single cut 3 EDP No.
SH-41	1/8	1/4	1/8	1-1/2	14553	14550
SH-41L2	1/8	1/4	1/8	2	17903	17900
SH-41L3	1/8	1/4	1/8	3	17928	17925
SH-53	3/16	3/8	1/8	1-1/2	14603	14600
SH-1	1/4	5/8	1/4	2	14378	14375
SH-2	5/16	3/4	1/4	2-1/2	14403	14400
SH-2L6	5/16	3/4	1/4	6-3/4	16703	16700
SH-5	1/2	1-1/4	1/4	3	14428	14425
SH-5L6	1/2	1-1/4	1/4	7-1/4	16728	16725
*SH-6	5/8	1-7/16	1/4	3-1/8	14453	14450
*SH-7	3/4	1-5/8	1/4	3-3/8	14503	14500

*3/8 shanks optional





Universal SJ - Cone Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SJ-42	1/8	3/32	1/8	1-1/2	14903	14900
SJ-1	1/4	3/16	1/4	2	14678	14675
SJ-3	3/8	5/16	1/4	2-1/8	14703	14700
SJ-5	1/2	7/16	1/4	2-5/16	14728	14725
*SJ-6	5/8	9/16	1/4	2-3/8	14753	14750
*SJ-7	3/4	11/16	1/4	2-9/16	14803	14800
*SJ-9	1	15/16	1/4	2-5/8	14853	14850

*3/8 shanks optional



Recommended Air Tools

FEATURES

From finishing to
stock removal

TOOL

Die Grinders & Pencil Grinders



Wear Eye
Protection!



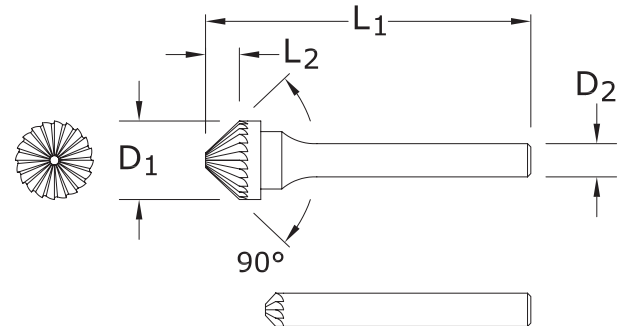
Wear Hearing
Protection!



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rotational speed, especially when
using burs with long shanks!



Wear Protective
Gloves

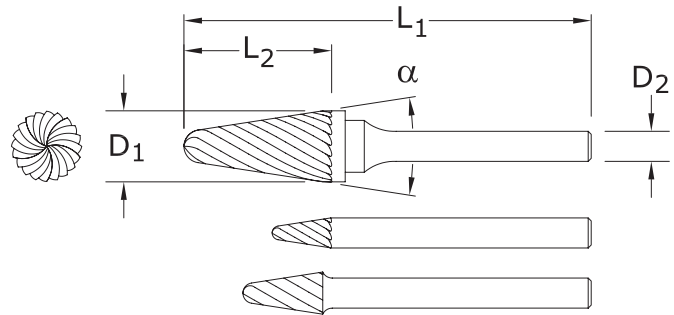


Universal SK - Cone Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SK-42	1/8	1/16	1/8	1-1/2	15153	15150
SK-1	1/4	1/8	1/4	2	14928	14925
SK-3	3/8	3/16	1/4	2-1/16	14953	14950
SK-5	1/2	1/4	1/4	2-1/8	14978	14975
*SK-6	5/8	5/16	1/4	2-1/4	15003	15000
*SK-7	3/4	3/8	1/4	2-5/16	15053	15050
*SK-9	1	1/2	1/4	2-3/8	15103	15100

*3/8 shanks optional





Universal SL - Radius End Taper Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
SL-41	1/8	3/8	1/8	1-1/2	8°	15403	15400	–
SL-42	1/8	1/2	1/8	1-1/2	8°	15428	15425	–
SL-42L2	1/8	1/2	1/8	2	8°	17953	17950	–
SL-42L3	1/8	1/2	1/8	3	8°	17978	17975	–
SL-81	3/16	7/16	3/16	2	14°	15478	15475	–
SL-53	3/16	1/2	1/8	1-1/2	14°	15453	15450	–
SL-1	1/4	5/8	1/4	2	14°	15178	15175	–
SL-1L6	1/4	5/8	1/4	6-3/4	14°	16753	16750	–
SL-2	5/16	7/8	1/4	2-3/4	14°	15203	15200	–
SL-3	3/8	1-1/16	1/4	3	14°	15228	15225	–
SL-3L6	3/8	1-1/16	1/4	7-1/16	14°	16778	16775	–
SL-3NF	3/8	1-1/16	1/4	3	14°	–	–	19070
SL-4	1/2	1-1/8	1/4	3	14°	15253	15250	–
SL-4L6	1/2	1-1/8	1/4	7-1/16	14°	16803	16800	–
SL-4NF	1/2	1-1/8	1/4	3	14°	–	–	19072
SL-5	5/8	1-3/16	1/4	3-1/16	14°	15278	15275	–

*3/8 shanks optional



Recommended Air Tools

FEATURES

From finishing to
stock removal

TOOL

Die Grinders & Pencil Grinders





SL-D/C

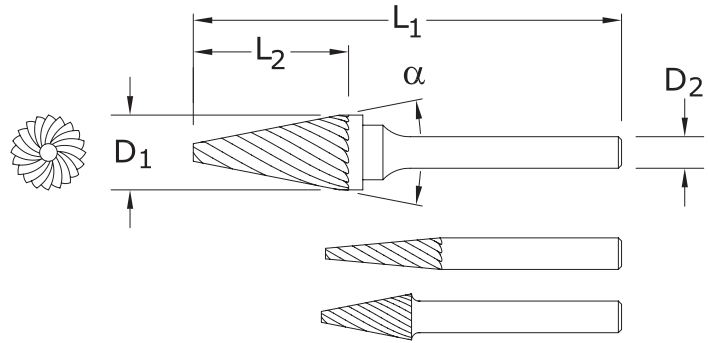
SL-S/C

SL-NF

Universal SL - *Taper Shape*

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	Double Cut 6 EDP No.	Single Cut 3 EDP No.	Nonferrous Cut 1 EDP No.
*SL-5NF	5/8	1-3/16	1/4	3	14°	–	–	19074
*SL-6	5/8	1-5/16	1/4	3-3/16	14°	15303	15300	–
*SL-6NF	5/8	1-5/16	1/4	3-3/16	14°	–	–	19076
*SL-7	3/4	1-1/2	1/4	3-3/8	14°	15353	15350	–
SL-7NF	3/4	1-1/2	1/4	3-3/8	14°	–	–	19078
SL-7NF3/8	3/4	1-1/2	3/8	3-5/8	14°	–	–	19080

*3/8 shanks optional



Universal SM - Cone Shape

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SM-61	3/32	1/4	3/32	1-1/4	10°	15803	15800
SM-41	1/8	11/32	1/8	1-1/2	12°	15678	15675
SM-42	1/8	7/16	1/8	1-1/2	14°	15703	15700
SM-42L2	1/8	7/16	1/8	2	14°	18053	18050
SM-42L3	1/8	7/16	1/8	3	14°	18078	18075
SM-43	1/8	5/8	1/8	1-1/2	7°	15728	15725
SM-53	3/16	1/2	1/8	1-1/2	16°	15778	15775
SM-1	1/4	1/2	1/4	2	22°	15503	15500
SM-51	1/4	1/2	1/8	2-3/32	22°	15753	15750
SM-2	1/4	3/4	1/4	2	14°	15528	15525
SM-3	1/4	1	1/4	2	10°	15553	15550
SM-4	3/8	5/8	1/4	2-1/2	28°	15578	15575
SM-5	1/2	7/8	1/4	2-3/4	28°	15603	15600
*SM-6	5/8	1	1/4	2-7/8	31°	15628	15625

*3/8 shanks optional



Recommended Air Tools

FEATURES

From finishing to
stock removal

TOOL

Die Grinders & Pencil Grinders



Wear Eye
Protection!



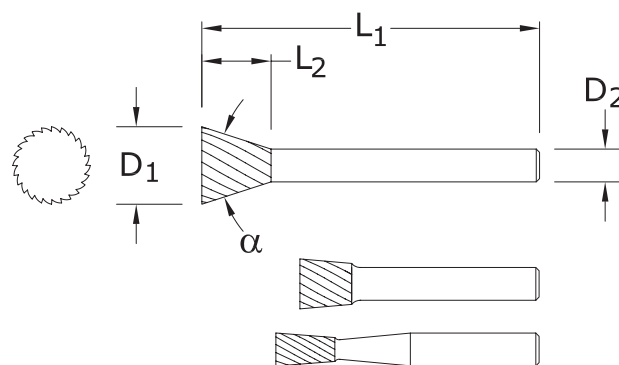
Wear Hearing
Protection!



Observe the recommended
rotational speed, especially when
using burs with long shanks!



Wear Protective
Gloves



Universal SN - Cone Shape Inverted

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	Double Cut 6 EDP No.	Single Cut 3 EDP No.
SN-41	3/32	1/8	1/8	1-1/2	10°	16028	16025
SN-61	3/32	1/8	3/32	1-1/4	10°	16128	16125
SN-42	1/8	3/16	1/8	1-1/2	10°	16053	16050
SN-81	3/16	1/4	3/16	2	10°	16153	16150
SN-53	3/16	1/4	1/8	1-1/2	10°	16103	16100
SN-51	1/4	1/4	1/8	1-3/4	10°	16078	16075
SN-1	1/4	5/16	1/4	2	10°	15853	15850
SN-2	3/8	3/8	1/4	2-3/32	13°	15878	15875
SN-4	1/2	1/2	1/4	2-1/4	28°	15903	15900
*SN-6	5/8	3/4	1/4	2-1/2	18°	15928	15925
*SN-7	3/4	5/8	1/4	2-3/8	30°	15978	15975

*3/8 shanks optional





Universal Long Shank

Tool No.	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut 6 EDP No.	Single Cut 3 EDP No.
Cylinder Shape						
SA-1L6	1/4	1/2	1/4	6-1/2	16178	16175
SA-3L6	3/8	3/4	1/4	6-3/4	16203	16200
SA-5L6	1/2	1	1/4	7	16228	16225
Cylinder Shape Radius End						
SC-1L6	1/4	1/2	1/4	6-1/2	16328	16325
SC-3L6	3/8	3/4	1/4	6-3/4	16353	16350
SC-5L6	1/2	1	1/4	7	16378	16375
Ball Shape						
SD-1L6	1/4	7/32	1/4	6-3/16	16403	16400
SD-3L6	3/8	5/16	1/4	6-5/16	16428	16425
SD-5L6	1/2	7/16	1/4	6-7/16	16453	16450
Oval Shape						
SE-1L6	1/4	3/8	1/4	6-3/8	16478	16475
SE-3L6	3/8	5/8	1/4	6-5/8	16503	16500
SE-5L6	1/2	7/8	1/4	6-7/8	16528	16525
Tree Shape Radius End						
SF-1L6	1/4	1/2	1/4	6-1/2	16553	16550
SF-3L6	3/8	3/4	1/4	6-3/4	16578	16575
SF-5L6	1/2	1	1/4	7	16603	16600
Tree Shape Pointed End						
SG-1L6	1/4	1/2	1/4	6-1/2	16628	16625
SG-3L6	3/8	3/4	1/4	6-3/4	16653	16650
SG-5L6	1/2	1	1/4	7	16678	16675
Flame Shape						
SH-2L6	5/16	3/4	1/4	6-3/4	16703	16700
SH-5L6	1/2	1-1/4	1/4	7-1/4	16728	16725
14° Taper Radius End						
SL-1L6	1/4	5/8	1/4	6-5/8	16753	16750
SL-3L6	3/8	1-1/16	1/4	7-1/16	16778	16775
SL-4L6	1/2	1-1/8	1/4	7-1/16	16803	16800

Maximum recommended speeds for extended length shanks is 15,000 rpm



sgspro



Bur Sets



sgspro BUR SETS

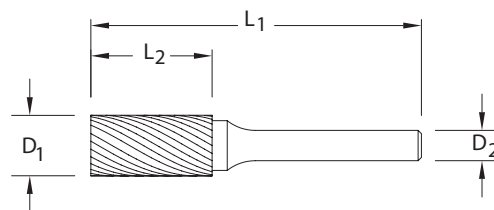
ATA has selected an assortment of the most popular burs for use in general application. These sets are presented in robust packaging that is:

- Easy to carry
- Compact
- Recyclable

Ideal for:

- Demonstrations
- Samplings
- Special promotions

The following sets are all universal double cut sets:



D1	Cutting Diameter
L2	Length of Cut
D2	Shank Diameter
L1	Overall Length

18260	18264
18266	18263
18251	

- Designed for general application
- Offers good control
- Reduced chip size
- Industries - applicable to many industries

Double Cut - 5 Piece Set 18260

CONTENTS

- 5 piece selection of standard shaped burs
- 3/8" and 1/2" cut diameters
- 1/4" shanks



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	EDP No.
SB-3	Cylinder with endcut	3/8	3/4	1/4	2-1/2		10928
SC-5	Ball nosed cylinder	1/2"	1	1/4	2-3/4		11878
SF-5	Ball nosed tree	1/2	1	1/4	2-3/4		13378
SG-3	Pointed tree	3/8	3/4	1/4	2-1/2		13903
SL-4	Ball nosed cone	1/2	1-1/8	1/4	3	14°	15253



Double Cut - 5 Piece Set 18266

CONTENTS

- 5 piece selection of standard coated burs
- 1/2" and 3/8" cut diameters
- 1/4" shanks



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	EDP No.
SB-3	Cylinder with endcut	3/8	3/4	1/4	2-1/2		11795
SC-5	Ball nosed cylinder	1/2	1	1/4	2-3/4		11895
SF-5	Ball nosed tree	1/2	1	1/4	2-3/4		13385
SG-3	Pointed tree	3/8	3/4	1/4	2-1/2		13915
SL-4	Ball nosed cone	1/2	1-1/8	1/4	3	14°	15265

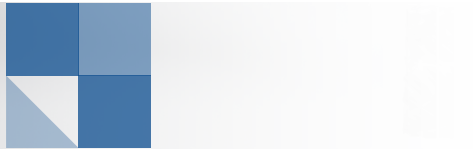
Double Cut - 10 Piece Set 18261

CONTENTS

- 10 piece selection of standard shaped burs
- 3/8" and 1/2" cut diameters
- 1/4" shanks



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	EDP No.
SB-3	Cylinder with endcut	3/8	3/4	1/4	2-1/2		10928
SB-5	Cylinder with endcut	1/2	1	1/4	2-3/4		11028
SC-3	Ball nosed cylinder	3/8	3/4	1/4	2-1/2		11778
SC-5	Ball nosed cylinder	1/2	1	1/4	2-3/4		11878
SD-5	Ball	1/2	7/16	1/4	2-1/8		12553
SE-3	Oval	3/8	5/8	1/4	2-3/8		12978
SF-5	Ball nosed tree	1/2	1	1/4	2-3/4		13378
SG-3	Tree	3/8	3/4	1/4	2-1/2		13903
SG-5	Tree	1/2	1	1/4	2-3/4		13928
SL-4	Ball nosed cone	1/2	1-1/8	1/4	3	14°	15253



Double Cut - 5 Piece Set 18262

CONTENTS

- 5 piece selection of established shaped burs
- 1/2" cut diameters
- 1/4" shanks



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	EDP No.
SB-5	Cylinder with endcut	1/2	1	1/4	2-3/4		11028
SC-5	Ball nosed cylinder	1/2	1	1/4	2-3/4		11878
SD-5	Ball	1/2	7/16	1/4	2-1/8		12553
SF-5	Ball nosed tree	1/2	1	1/4	2-3/4		13378
SM-5	Cone	1/2	7/8	1/4	2-3/4	28°	15603

Double Cut Miniature - 10 Piece Set 18263

CONTENTS

- 10 piece selection of established shaped burs
- 1/8" cut diameters
- 1/8" shanks



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	EDP No.
SA-43	Cylinder w/o endcut	1/8	9/16	1/8	1-1/2		10653
SB-43	Cylinder with endcut	1/8	9/16	1/8	1-1/2		11503
SC-42	Ball nosed cylinder	1/8	9/16	1/8	1-1/2		12278
SD-42	Ball	1/8	1/8	1/8	1-1/2		12803
SE-41	Oval	1/8	7/32	1/8	1-1/2		13153
SF-42	Ball nosed tree	1/8	1/2	1/8	1-1/2		13703
SG-44	Tree	1/8	1/2	1/8	1-1/2		14228
SH-41	Flame	1/8	1/4	1/8	1-1/2		14553
SL-41	Ball nosed cone	1/8	3/8	1/8	1-1/2	8°	15403
SM-42	Cone	1/8	7/16	1/8	1-1/2	14°	15703



Double Cut - 40 Piece Display Case 18264

40 Piece display case showcases the wider bur offering.

- Counter top display
- Low maintenance
- Heavy duty packaging
- Secure product
- Maximize retail space
- 100% recyclable

Contents include:

- Double cut burs
- 1/4", 5/16", 3/8", & 1/2" diameter
- 1/4" shanks
- Five shape configurations

Case includes two of each of the burs listed below



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	EDP No.
SB-1	Cylinder with endcut	1/4	5/8	1/4	2		10853
SB-2	Cylinder with endcut	5/16	3/4	1/4	2-1/2		10903
SB-3	Cylinder with endcut	3/8	3/4	1/4	2-1/2		10928
SB-5	Cylinder with endcut	1/2	1	1/4	2-3/4		11028
SC-1	Ball nosed cylinder	1/4	5/8	1/4	2		11703
SC-2	Ball nosed cylinder	5/16	3/4	1/4	2-1/2		11753
SC-3	Ball nosed cylinder	3/8	3/4	1/4	2-1/2		11778
SC-5	Ball nosed cylinder	1/2	1	1/4	2-3/4		11878
SF-1	Ball nosed tree	1/4	5/8	1/4	2		13303
SF-2	Ball nosed tree	5/16	3/4	1/4	2-1/2		18060
SF-3	Ball nosed tree	3/8	3/4	1/4	2-1/2		13328
SF-5	Ball nosed tree	1/2	1	1/4	2-3/4		13378
SG-1	Pointed tree	1/4	5/8	1/4	2		13853
SG-2	Pointed tree	5/16	3/4	1/4	2-1/2		13878
SG-3	Pointed tree	3/8	3/4	1/4	2-1/2		13903
SG-5	Pointed tree	1/2	1	1/4	2-3/4		13928
SL-1	Ball nosed cone	1/4	5/8	1/4	2	14°	15178
SL-2	Ball nosed cone	5/16	7/8	1/4	2-3/4	14°	15203
SL-3	Ball nosed cone	3/8	1-1/16	1/4	3	14°	15228
SL-4	Ball nosed cone	1/2	1-1/8	1/4	3	14°	15253

Omega Cut - 5 Piece Set 18265

CONTENTS

- 5 piece selection of standard shaped burs
- 1/2" cut diameter
- 1/4" shanks
- Omega Cut - maximum stock removal
- Industries - foundry & shipbuilding steel applications



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	EDP No.
SB-5	Cylinder with endcut	1/2	1	1/4	2-3/4		10273
SC-5	Ball nosed cylinder	1/2	1	1/4	2-3/4		10276
SF-5	Ball nosed tree	1/2	1	1/4	2-3/4		10286
SG-5	Pointed tree	1/2	1	1/4	2-3/4		10290
SL-4	Ball nosed cone	1/2	1-1/8	1/4	3	14°	10296

AS Range - 10 Piece Set 19500

FEATURES

- Compact
- Versatile assortment

BENEFITS

- Easy to carry
- Ideal for demonstrations, samplings or special promotions



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Diameter L1	Included Angle	EDP No.
SA-43	Cylinder without endcut	1/8	9/16	1/8	1-1/2	-	19400
SC-42	Ball nosed cylinder	1/8	9/16	1/8	1-1/2	-	19410
SD-42	Ball	1/8	3/32	1/8	1-1/2	-	19420
SE-41	Oval	1/8	7/32	1/8	1-1/2	-	19430
SF-42	Ball nosed tree	1/8	1/2	1/8	1-1/2	-	19440
SG-42	Pointed tree	1/8	5/16	1/8	1-1/2	-	19450
SG-44	Pointed tree	1/8	1/2	1/8	1-1/2	-	19460
SH-41	Flame	1/8	1/4	1/8	1-1/2	-	19470
SL-42	Ball nosed cone	1/8	1/2	1/8	1-1/2	-	19480
SM-43	Cone	1/8	5/8	1/8	1-1/2	-	19490



Inox Range - 5 Piece Set 19187

CONTENTS

- 5 piece selection of standard shaped burs
- 1/2" cut diameters
- 1/4" shanks

BENEFITS

- Developed cutting geometry
- High performance grinding
- Reduces heat build up on the workpiece

See the bur
in action!



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	EDP No.
SA-5	Cylinder without endcut	1/2	1	1/4	2-3/4		19155
SC-5	Ball nosed cylinder	1/2	1	1/4	2-3/4		19161
SF-5	Ball nosed tree	1/2	1	1/4	2-3/4		19176
SG-5	Pointed tree	1/2	1	1/4	2-3/4		19180
SL-4	Ball nosed cone	1/2	1-1/8	1/4	3	14°	19186

Steel Range - 5 Piece Set 19380

CONTENTS

- 5 piece selection of standard shaped burs
- 1/2" cut diameters
- 1/4" shanks

BENEFITS

- Increases machine output on steel components
- Aggressive cutting form
- Specifically engineered steel cutting geometry

See the bur
in action!



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle	EDP No.
SB-5	Cylinder with endcut	1/2	1	1/4	2-3/4		19357
SC-5	Ball nosed cylinder	1/2	1	1/4	2-3/4		19365
SF-5	Ball nosed tree	1/2	1	1/4	2-3/4		19378
SG-5	Pointed tree	1/2	1	1/4	2-3/4		19369
SL-4	Ball nosed cone	1/2	1-1/8	1/4	3	14°	19374

The Radius bur sets contain an exclusive range of multi-application burs that cover all general metal removal, thanks to the exclusive inverted curve design.

Radius Bur - 5 Piece Set 18220

CONTENTS

- 1/2" and 5/8" cutting diameter
- 1/4" shanks

BENEFITS

- Ease of control
- Reduces downtime
- Creates smooth radius



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SB-5RA D/C	Radius/Cylinder with endcut	1/2	1	1/4	2-3/4	11756
SC-5RA D/C	Radius/Cylinder ball nosed	1/2	1	1/4	2-3/4	11757
SF-5RA D/C	Radius/Ball nosed tree	1/2	1-1/4	1/4	3-1/4	11760
SK-5RA D/C	Radius/Cylinder/Countersink 90°	1/2	1-1/8	1/4	3	11763
SK-6CO C	Double Inverted 45°	5/8	5/8	1/4	2-3/8	15865

Radius Bur - 10 Piece Set - 18225

CONTENTS

- 1/2" cut diameters
- 1/4" shanks

See the bur in action!



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SA-5RA D/C	Radius/Cylinder	1/2	1	1/4	2-3/4	11755
SB-5RA D/C	Radius/Cylinder with endcut	1/2	1	1/4	2-3/4	11756
SC-5RA C	Radius/Cylinder ball nosed	1/2	1	1/4	2-3/4	11757
SC-5RA C	Radius/Cylinder ball nosed	1/2	1	1/4	2-3/4	11758
SC-5RA D/C	Radius/Cylinder ball nosed	1/2	1	1/4	2-3/4	11759
SF-5RA D/C	Radius/Ball nosed tree	1/2	1-1/4	1/4	3-1/4	11760
SG-5RA D/C	Radius/Tree	1/2	1-1/4	1/4	3-1/4	11761
SJ-5RA D/C	Radius/Countersink 60°	1/2	1-1/4	1/4	3	11762
SK-5RA D/C	Radius/Cylinder/Countersink 90°	1/2	1-1/8	1/4	3	11763
SL-5RA D/C	Radius/Ball nose cone	1/2	1-1/4	1/4	3-1/4	11764



The Combi bur sets include high performance, multi-purpose burs for the multi-application industries. Their innovative design allow for less downtime and covers multiple applications.

Combi Bur - 5 Piece Set 18230

CONTENTS

- 1/2" and 5/8" cut diameters
- 1/4" shanks

BENEFITS

- Better performance
- Suit complex application
- Consistent performance



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SD-5CO D/C	Inverted/Ball	1/2	3/4	1/4	2-1/2	15858
SJA-5CO-D/C	Cylinder/Countersink 60°	1/2	1	1/4	2-3/4	15861
SNA-5CO D/C	Inverted/Countersink 90°	1/2	3/4	1/4	2-1/2	15864
SK-6CO D/C	Double Inverted 45°	5/8	7/8	1/4	2-3/4	15865
SN-5CO D/C	Double Inverted	1/2	1	1/4	2-3/4	15868

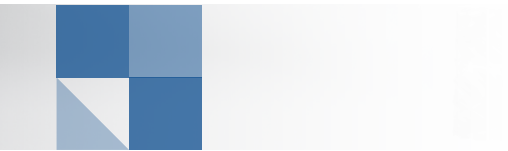
Combi Bur - 10 Piece Set 18235

CONTENTS

- 1/2" cut diameters
- 1/4" shanks



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SB-5CO D/C	Inverted/Cylinder with endcut	1/2	1	1/4	2-3/4	15856
SD-5CO D/C	Inverted/Ball	1/2	3/4	1/4	2-1/2	15858
SF-5CO D/C	Inverted/Ball nosed tree	1/2	1-1/4	1/4	3	15859
SG-5CO D/C	Inverted/Tree	1/2	1-1/4	1/4	3	15860
SJN-5CO D/C	Inverted/Countersink 60°	1/2	7/8	1/4	2-3/4	15862
SKA-5CO D/C	Cylinder/Countersink 90°	1/2	1	1/4	2-3/4	15863
SNA-5CO D/C	Inverted/Countersink 90°	1/2	3/4	1/4	2-1/2	15864
SL-5CO D/C	Inverted/Ball nosed cone	1/2	1-1/4	1/4	3	15866
SM-5CO D/C	Inverted/Cone	1/2	1-1/4	1/4	3-1/4	15867
SN-5CO D/C	Double Inverted	1/2	1	1/4	2-3/4	15868



The Corner Radius bur set has been specially designed to meet the high manufacturing standards of the Aerospace industry. The radius design at the top allows for extended tool life.

Corner Radius - 6 Piece Set 18240

CONTENTS

- 1/8", 1/4", 5/16", 3/8", 1/2" and 5/8" cut diameter
- 1/8" and 1/4", shanks

BENEFITS

- Stronger flute design
- Prevents from digging
- Reduces flute chipping



Tool No.	Description	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	EDP No.
SA-43CR D/C	Cylinder with Radius	1/8	9/16	1/8	1-1/4	10155
SA-1CR D/C	Cylinder with Radius	1/4	3/4	1/4	2	10156
SA-2CR D/C	Cylinder with Radius	5/16	3/4	1/4	2-1/2	10157
SA-3CR D/C	Cylinder with Radius	3/8	3/4	1/4	2-1/2	10158
SA-5CR D/C	Cylinder with Radius	1/2	1	1/4	2-3/4	10159
SA-6CR D/C	Cylinder with Radius	5/8	1	1/4	2-3/4	10160

See the bur in action!





- The use of eye, face, and ear protection is strongly recommended.
- Extended shank burs are only recommended for use in well maintained handheld grinders.
- Stabilize extended shank burs by lightly contacting the workpiece prior to starting the grinder.
- Blue discoloring of steel shanks indicates excessive heat due to overuse. Continued use could cause injury.

SAFETY

INSTRUCTIONS

NOTES



NOTES



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