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Applied to Life.™

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One (1) 3M™ 1.5 HP Grinder
or
One (1) 3M™ 1.5 HP Sander
or
One (1) 3M™ 1.5 HP Cut-off Wheel Tool

\$6,500 of qualifying
abrasive products



One (1) 3M™ HP Grinder
or
One (1) 3M™ HP Cut-Off Wheel Tool

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abrasive products



One (1) 3M™ Disc Sander
or
One (1) 3M™ Die Grinder

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Three (3) Cases 3M™ One Piece Backup Pad
or
One (1) 3M™ Random Orbital Sander
or
One (1) 3M™ Two Handed Random Orbital Sander
or
One (1) 3M™ Belt Sander

HOW TO REGISTER

1. Log on to website 3M.com/FreeTools
2. Upload proof of purchase
3. Get free tools and accessories

Continue to upload proof of purchases to earn unlimited free tools through December 31, 2022.

* Free tool eligibility based on a minimum abrasive product purchase requirement. Qualifying products and free tools offering subject to change without notice. Unlimited through December 31, 2022.

Previously purchased products are not eligible for this promotion. Connect with your 3M Sales Representative if you have any questions.

Reward Options

Free Tools

3M™ Grinders & Sanders

- Heavy-duty gear heads for added durability under high force applications
- Vibration-reducing side handle with padding; interchangeable for right or left hand usage
- Repositionable steel guards for better visibility



28403/28405



88566

1.5 HP Tool Program Options

Qualifying Abrasive Spend (\$)	MSC ID	Model number	Tool diameter Inch (mm)	Motor HP (W)	Max. RPM	Air flow rate SCFM (LPM)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Air inlet thread	Thread size
\$10,000	15547375	88566	4 1/2–5" (115–125)	1.5 (1,110)	12,000	43 (1.2)	5.3 (2.4)	11" (279)	4" (105)	3/8 NPT	5/8–11" EXT
\$10,000	15547383	88577	4 1/2–5" (115–125)	1.5 (1,110)	12,000	43 (1.2)	4.9 (2.2)	11" (279)	4" (105)	3/8 NPT	5/8–11" EXT

1 HP Tool Program Options

Qualifying Abrasive Spend (\$)	MSC ID	Model number	Tool diameter Inch (mm)	Motor HP (W)	Max. RPM	Air flow rate SCFM (LPM)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Air inlet thread	Thread size
\$6,500	64398720	28403	4" (100)	1 (744)	12,000	37 (1,048)	3.5 (1.6)	9" (216)	5" (114)	3/8" NPT	3/8–24" EXT

3M™ Cut-Off Wheel Tools

- Easily cut through everything from standard rebar to oversized bolts
- Exclusive 3M™ Gripping Material for added comfort
- Model 28826 provides greater versatility and control with right angle head and easily repositionable guard



20233



28771



28826

1.5 HP Tool Program Option

Qualifying Abrasive Spend (\$)	MSC ID	Model number	Tool diameter Inch (mm)	Motor HP (W)	Max. RPM	Air flow rate SCFM (LPM)	Noise level dBA (power)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Air inlet thread
\$10,000	92698232	28826	4 1/2–5" (115–125)	1.5 (1,120)	12,000	40 (1,133)	84 (92)	5.5 (2.5)	11" (279)	4" (111)	1/2" NPT

1 HP Tool Program Options

Qualifying Abrasive Spend (\$)	MSC ID	Model number	Tool diameter Inch (mm)	Motor HP (W)	Max. RPM	Air flow rate SCFM (LPM)	Noise level dBA (power)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Air inlet thread
\$6,500	63223390	20233	3" (76)	1 (744)	25,000	37 (1,048)	91 (102)	2.6 (1.2)	8" (197)	3" (76)	3/8" NPT
\$6,500	92586049	28771	4" (100)	1 (744)	19,000	37 (1,048)	90 (102)	2.7 (1.2)	8" (197)	3" (83)	3/8" NPT

3M™ Die Grinders — 0.3 HP (224W)

- Ideal for light-duty applications such as deburring, blending, finishing and polishing in intricate and hard-to-reach areas
- Exclusive 3M™ Gripping Material reduces vibration and provides a more secure grip



Qualifying Abrasive Spend (\$)	MSC ID	Model number	Max. RPM	Air flow rate SCFM (LPM)	Noise level dBA (power)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Air Inlet Thread	Collet Size
\$5,000	65795866	28630	25,000	17 (481)	86 (98)	1.4 (0.6)	10 (248)	1 (35)	1/4" NP	1/4" +
\$5,000	45985041	28629	25,000	17 (481)	78 (90)	0.9 (0.4)	6 (152)	1 (35)	1/4" NP	1/4" +
\$5,000	89645592	28628	18,000	17 (481)	80 (92)	1.5 (0.7)	11 (267)	1 (35)	1/4" NP	1/4" +
\$5,000	44520450	28627	18,000	17 (481)	79 (91)	1.2 (0.5)	7 (184)	1 (35)	1/4" NP	1/4" +

3M™ Die Grinders — 0.5 HP (372W)

- Ideal for medium-duty applications such as polishing, buffing, shaping and deburring
- Exclusive 3M™ Gripping Material reduces vibration and provides a more secure grip



Qualifying Abrasive Spend (\$)	MSC ID	Model number	Max. RPM	Air flow rate SCFM (LPM)	Noise level dBA (power)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Air Inlet Thread	Collet Size
\$5,000	51491488	28330	18,000	26 (736)	87 (99)	1.1 (0.5)	7 (175)	3 (70)	1/4" NP	1/4"
\$5,000	76329531	28331	18,000	26 (736)	87 (99)	1.5 (0.7)	11 (270)	3 (70)	1/4" NP	1/4"
\$5,000	64398399	28332	4,000	26 (736)	87 (99)	1.6 (0.7)	9 (200)	3 (70)	1/4" NP	1/4"

*With extension

3M™ Die Grinders — 1 HP (744W)

- Excellent for big jobs such as weld or stock removal
- Exclusive 3M™ Gripping Material reduces vibration and provides a more secure grip



Qualifying Abrasive Spend (\$)	MSC ID	Model number	Max. RPM	Air flow rate SCFM (LPM)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Air Inlet Thread	Collet Size
\$5,000	89645600	20238	18,000	37 (1,048)	2.0 (0.9)	8 (197)	3 (73)	3/8" NPT	1/4"
\$5,000	64398381	20239	12,000	37 (1,048)	2.6 (1.2)	9 (200)	3 (81)	3/8" NPT	1/4"
\$5,000	65796245	20240	8,000	37 (1,048)	2.6 (1.2)	9 (200)	3 (81)	3/8" NPT	1/4"

3M™ Disc Back-up Pad, Ribber, Extra Hard, One Piece

- One-piece design for added convenience
- Threaded hub allows for easy, secure attachment to tool
- Low-profile design will fit most tools and guards
- For use with coarse grade fiber discs and select non-woven Scotch-Brite™ abrasives



Qualifying Abrasive Spend (\$)	MSC ID	Model number	Tool diameter Inch (mm)	Max. RPM	Min/Case
\$3,000	17676321	88655	4½	13,300	10

3M™ Air-Powered Disc Sander

- Designed to allow greater access to work pieces compared to conventional larger disc attachments
- All models feature a powerful, high-torque air motor to optimize overall performance of the 3M™ Roloc™ System
- Easier handling, lightweight, compact design generates less vibration, while improving operator control
- Works in combination with the 3M™ Roloc™ Quick Release System – discs lock securely in place with just half a twist
- All models are supplied with a 3M™ Roloc™ Rubber Back-Up Pad and 1/4" collet



Qualifying Abrasive Spend (\$)	MSC ID	Model	Tool diameter Inch (mm)	Motor HP (W)	Max. RPM	Noise level dBA (power)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Air inlet thread	Airflow rate SCFM (LPM)	Collet size Inch (mm)
\$5,000	64398266	28341	2 (51)	0.3 (224)	20,000	81 (92)	1.1 (0.5)	6 (150)	3 (63)	1/4" NPT	17 (481)	1/4"
\$5,000	64398357	28328	2-3 (51-76)	0.3 (224)	12,000	81 (92)	1.1 (0.5)	7 (172)	3 (64)	1/4" NPT	17 (481)	1/4"
\$5,000	64398332	20231	2 (51)	0.5 (372)	20,000	89 (101)	1.3 (0.6)	7 (172)	3 (70)	1/4" NPT	26 (736)	1/4"
\$5,000	89645634	28329	2-3 (51-76)	0.5 (372)	12,000	89 (101)	1.3 (0.6)	7 (172)	3 (70)	1/4" NPT	26 (736)	1/4"
\$5,000	64398340	20232	2-3 (51-76)	1 (744)	15,000	84 (95)	2.0 (0.9)	8 (210)	3 (83)	3/8" NPT	37 (1,048)	1/4"

3M™ Random Orbital Sanders

- 3M™ Gripping Material for better control with less effort
- Recessed lever eliminates pinch points
- Thumb wheel-mounted speed control reduces accidental speed changes
- Integrated Wrist Support for comfort and leverage
- Aluminum housing and composite cover for added durability and reduced vibration
- Internal muffler reduces breakage, SGV 6 dB quieter



3M™ Elite Non-Vacuum Random Orbital Sanders

- Our top-of-the-line non-vacuum random orbital sanders featuring the latest in 3M innovation

MSC ID	Model number	Tool diameter Inch (mm)	Max. RPM	Motor HP (W)	Orbit diameter Inch (mm)	Air flow rate SCFM (LPM)	Noise level dBA (power)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Pad included
65795866	28494	3 (76)	12,000	0.28 (209)	3/16 (5)	17 (481)	73 (84)	1.5 (.7)	6 (147)	4 (92.5)	Hookit™ 20350
45985041	87092	3 (76)	12,000	0.28 (209)	3/32 (2.5)	17 (481)	73 (84)	1.3 (.6)	6 (147)	3 (86)	Hookit™ 20350
89645592	28583	5 (127)	12,000	0.28 (209)	3/8 (9.5)	17 (481)	74 (85)	1.8 (.8)	7 (172)	4 (91)	Stikit™ 20351
64398423	28495	5 (127)	12,000	0.28 (209)	5/16 (8)	17 (481)	74 (85)	1.8 (.8)	7 (172)	4 (91)	Stikit™ 20351
51491488	28497	5 (127)	12,000	0.28 (209)	3/16 (5)	17 (481)	74 (85)	1.8 (.8)	7 (172)	4 (91)	Stikit™ 20351
76329531	28708	5 (127)	12,000	0.28 (209)	3/16 (5)	17 (481)	74 (85)	1.8 (.8)	7 (172)	4 (91)	Hookit™ 20352
64398399	28498	5 (127)	12,000	0.28 (209)	3/32 (2.5)	17 (481)	74 (85)	1.7 (.8)	7 (172)	4 (91)	Stikit™ 20351
89645600	28582	6 (152)	12,000	0.28 (209)	3/8 (9.5)	17 (481)	75 (86)	1.9 (.9)	7 (187)	4 (91)	Stikit™ 20354
64398381	28499	6 (152)	12,000	0.28 (209)	5/16 (8)	17 (481)	75 (86)	1.9 (.9)	7 (187)	4 (91)	Stikit™ 20354
65796245	28500	6 (152)	12,000	0.28 (209)	3/16 (5)	17 (481)	75 (86)	1.9 (.8)	7 (187)	4 (91)	Stikit™ 20354
64398373	28501	6 (152)	12,000	0.28 (209)	3/32 (2.5)	17 (481)	75 (86)	2.1 (1.0)	7 (187)	4 (91)	Stikit™ 20354

3M™ Elite Self-Generated Vacuum Random Orbital Sanders*

- Take dust-management to the next level with powerful self-generated vacuum tools
- Featuring 3M-patented Clean Sanding system with improved filter bag



MSC ID	Model number	Tool diameter Inch (mm)	Max. RPM	Motor HP (W)	Orbit diameter Inch (mm)	Air flow rate SCFM (LPM)	Noise level dBA (power)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Pad included
64398258	28511	3 (76)	12,000	0.28 (209)	3/16 (5)	17 (481)	85 (96)	1.7 (.8)	8 (209)	4 (93)	Hookit™ 20350
64398225	28513	3 (76)	12,000	0.28 (209)	3/32 (2.5)	17 (481)	85 (96)	1.4 (.7)	8 (207)	3 (88)	Hookit™ 20350
14654321	28563	5 (127)	12,000	0.28 (209)	3/8 (9.5)	17 (481)	84 (95)	1.9 (.9)	9 (234)	4 (93)	Hookit™ 20353
64398266	28512	5 (127)	12,000	0.28 (209)	5/16 (8)	17 (481)	86 (97)	1.9 (.9)	9 (234)	4 (93)	Hookit™ 20353
14654784	28514	5 (127)	12,000	0.28 (209)	3/16 (5)	17 (481)	86 (97)	1.9 (.9)	9 (234)	4 (93)	Hookit™ 20353
14654552	28515	5 (127)	12,000	0.28 (209)	3/32 (2.5)	17 (481)	86 (97)	1.8 (.8)	9 (234)	4 (93)	Hookit™ 20353
14654347	28562	6 (152)	12,000	0.28 (209)	3/8 (9.5)	17 (481)	87 (94)	2.1 (.9)	10 (245)	4 (93)	Hookit™ 20356
14654172	28510	6 (152)	12,000	0.28 (209)	5/16 (8)	17 (481)	88 (99)	2.0 (.9)	10 (245)	4 (93)	Hookit™ 20356
14654313	28516	6 (152)	12,000	0.28 (209)	3/16 (5)	17 (481)	89 (100)	2.0 (.9)	10 (245)	4 (93)	Hookit™ 20356
14654180	28517	6 (152)	12,000	0.28 (209)	3/32 (2.5)	17 (481)	88 (99)	1.9 (.9)	10 (245)	4 (93)	Hookit™ 20356

*One (1) each of the following included: 3M™ Clean Sanding Filter Bag, Filter Bag Adapter, Hose Seal

3M™ Elite Central-Vacuum-Ready Random Orbital Sanders

- Easily attach to your existing central vacuum system for efficient dust evacuation



MSC ID	Model number	Tool diameter Inch (mm)	Max. RPM	Motor HP (W)	Orbit diameter Inch (mm)	Air flow rate SCFM (LPM)	Noise level dBA (power)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Pad included
64398357	28503	3 (76)	12,000	0.28 (209)	3/16 (5)	17 (481)	72 (83)	1.8 (.8)	8 (203)	4 (93)	Hookit™ 20350
64398332	28505	3 (76)	12,000	0.28 (209)	3/32 (2.5)	17 (481)	72 (83)	1.4 (.6)	8 (201)	3 (88)	Hookit™ 20350
89645634	28561	5 (127)	12,000	0.28 (209)	3/8 (9.5)	17 (481)	73 (84)	1.9 (.9)	9 (227)	4 (93)	Hookit™ 20353
64398340	28504	5 (127)	12,000	0.28 (209)	5/16 (8)	17 (481)	73 (84)	1.9 (.9)	9 (227)	4 (93)	Hookit™ 20353
64398324	28506	5 (127)	12,000	0.28 (209)	3/16 (5)	17 (481)	73 (84)	1.8 (.8)	9 (227)	4 (93)	Hookit™ 20353
64398316	28507	5 (127)	12,000	0.28 (209)	3/32 (2.5)	17 (481)	73 (84)	1.8 (.8)	9 (227)	4 (93)	Hookit™ 20353
89645642	28560	6 (152)	12,000	0.28 (209)	3/8 (9.5)	17 (481)	76 (87)	2.0 (.9)	9 (238)	4 (93)	Hookit™ 20356
64398365	28502	6 (152)	12,000	0.28 (209)	5/16 (8)	17 (481)	76 (87)	2.0 (.9)	9 (238)	4 (93)	Hookit™ 20356
64398290	28508	6 (152)	12,000	0.28 (209)	3/16 (5)	17 (481)	76 (87)	2.0 (.9)	9 (238)	4 (93)	Hookit™ 20356
64398282	28509	6 (152)	12,000	0.28 (209)	3/32 (2.5)	17 (481)	76 (87)	1.9 (.9)	9 (238)	4 (93)	Hookit™ 20356

3M™ Pneumatic Random Orbital Sander, 2-Hand

- For extra leverage and power, choose the two-handed 3M™ Random Orbital Sander
- Features a powerful 0.45 HP motor with 3/8" orbit, built-in muffler and rear exhaust



Qualifying Abrasive Spend (\$)	MSC ID	Model number	Tool diameter Inch (mm)	Max. RPM	Motor HP (W)	Orbit diameter Inch (mm)	Air flow rate SCFM (LPM)	Noise level dBA (power)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Pad included
\$3,000	14654230	28337	6 (150)	12,000	0.45 (336)	3/8 (9.5)	21 (594)	81 (89)	3 (1.32)	13 (328)	4 (113)	Hookit™ 20356
\$3,000	64398373	28335	6 (150)	12,000	0.45 (336)	3/8 (9.5)	21 (594)	81 (89)	3 (1.32)	13 (328)	4 (113)	Hookit™ 20356

3M™ File Belt Sander

- Ideally suited for use with 3M™ Abrasive Belts and Scotch-Brite™ Belts for a variety of metalworking applications
- Grinds and blends from contact wheel or platen finish and polishes from slack of belt
- Provides access to hard-to-reach areas
- Eight different attachment arms available



28366

Qualifying Abrasive Spend (\$)	MSC ID	Model	Motor	Max. RPM	Belt speed SFPM (SMM)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Width Inch (mm)	Airflow rate SCFM (LPM)
\$3,000	14654677	28366	0.6 HP	22,000	4990 (1521)	2.8 (1.3)	14.57 (370)	2.93 (74.5)	5.95 (151.2)	28 (793)

Random Orbital Sanding Qualifying Products

3M Xtract™ Cubitron™ II Disc 710W

- Revolutionary as it is the first net disc to be infused with 3M Precision-Shaped grain
- Up to 97% dust extraction
- Designed to require less pressure

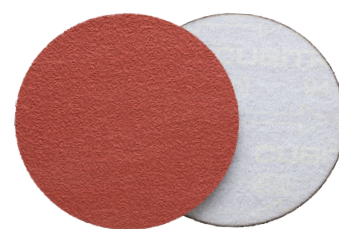


MSC ID	Grade	Qty/case
3" x NH		
14654743	80+	300
14654776	320+	300
14654792	240+	300
14654479	220+	300
14654768	180+	300
14654636	150+	300
14654321	120+	300
5" x NH		
14654735	80+	300
14654784	320+	300
14654552	240+	300
14654347	220+	300
14654172	180+	300
14654313	150+	300
14654180	120+	300

MSC ID	Grade	Qty/case
6" x NH		
14654115	80+	300
14654214	320+	300
14654529	240+	300
14654370	220+	300
14654065	180+	300
14654081	150+	300
14654131	120+	300
8" x NH		
14654495	80+	300
14654271	320+	300
14654248	240+	300
14654230	220+	300
14654701	180+	300
14654677	150+	300
14654545	120+	300

3M™ Cubitron™ II Hook-it™ Cloth Disc 784F

- 3M Precision-Shaped Grain blend provides significantly longer life than comparable aluminum oxide discs
- Proprietary mineral provides consistent, faster results on medium to heavy duty sanding applications, helping to improve productivity and throughput
- Durable resin bond resists deterioration from heat



MSC ID	Size (inches)	Grade	Qty/case
20143921	5" x NH	36+	25/200
20143905	5" x D/F	36+	25/200
20143970	5" x NH	50+	25/200
20143087	5" x D/F	50+	25/200
20144002	5" x NH	60+	25/200
20143988	5" x D/F	60+	25/200
20143913	5" x NH	80+	25/200
15603343	5" x D/F	80+	25/200
20143939	5" x NH	120+	25/200
20143996	5" x D/F	120+	25/200

Random Orbital Sanding – Qualifying Products (cont.)

3M™ Cubitron™ II 732U Paper Sanding Discs

- Feature 3M Precision-Shaped Grain that slices through the substrate, wears evenly and provides extra-long life and consistency
- Ideal for a wide variety of substrates and applications focused primarily on stock removal
- Available with Hookit™ and Stikit™ attachment systems to make changing discs fast and easy



3M™ Cubitron™ II Hookit™ Clean Sanding Paper Discs 732U

MSC ID	Grade	Qty/case
5" × NH		
20143129	80+	250
20143954	120+	250
20143962	150+	250
20143111	180+	250
54870969	220+	250
6" × NH		
35793546	80+	250
54870712	120+	250
54871074	150+	250
35793611	180+	250
54870951	220+	250

3M™ Cubitron™ II Stikit™ Paper Disc Rolls 732U

MSC ID	Grade	Qty/case
5" × NH		
54869748	80+	100/roll
54869730	120+	100/roll
54869854	150+	100/roll
54869813	180+	100/roll
54869771	220+	100/roll
6" × NH		
54869722	80+	100/roll
54869714	120+	100/roll
54869086	150+	100/roll
54869078	180+	100/roll
54868930	220+	100/roll

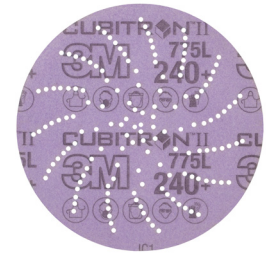
3M™ Cubitron™ II Hookit™ Paper Discs 732U

MSC ID	Grade	Qty/case
5" × NH		
54870928	80+	250
54870803	120+	250
54871090	150+	250
54871033	180+	250
54870977	220+	250
6" × NH		
54870795	80+	250
54870787	120+	250
54870589	150+	250
54870571	180+	250
54870522	220+	250

Random Orbital Sanding – Qualifying Products (cont.)

3M™ Cubitron™ II Film Discs 775L

- Powered by revolutionary 3M Precision-Shaped Grain technology for a fast, even, long-lasting cut
- Film backing for greater tear resistance and edge retention
- Ideal for a broad range of applications and substrates, including metals, composites, gel coat and whitewood
- Available with Hookit™ and Stikit™ attachment systems to make changing discs fast and easy



3M™ Cubitron™ II Hookit™ Clean Sanding Discs 775L

MSC ID	Grade	Qty/case
5"		
54870860	80+	100/Roll
54870852	120+	125/Roll
54871116	150+	100/Roll
60979911	180+	100/Roll
46116893	220+	100/Roll
57423493	240+	100/Roll
46116927	320+	100/Roll
46116943	400+	100/Roll
6"		
54870845	80+	50/250
54870878	120+	50/250
54870688	150+	50/250
54870696	180+	50/250
54870563	220+	50/250
31418940	240+	50/250
31418833	320+	50/250
31418825	400+	50/250

3M™ Cubitron™ II Stikit™ Film Disc Rolls 775L

MSC ID	Grade	Qty/case
5" x NH		
54869284	80+	100/roll
54869276	120+	125/roll
54869870	150+	100/roll
54869839	180+	100/roll
54869797	220+	100/roll
31417785	240+	100/roll
31417595	320+	100/roll
31417652	400+	100/roll
6" x NH		
54869268	80+	100/roll
54869250	120+	125/roll
54869623	150+	100/roll
54869631	180+	100/roll
54870175	220+	100/roll
31417678	240+	100/roll
31261431	320+	100/roll
31417777	400+	100/roll

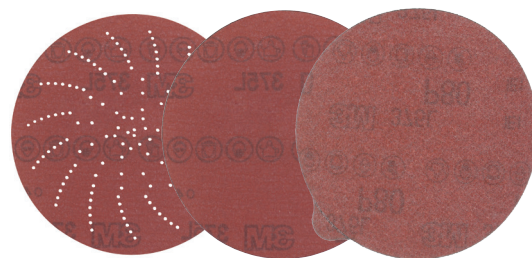
3M™ Cubitron™ II Hookit™ Film Discs 775L

MSC ID	Grade	Qty/case
5" x NH		
47899323	80+	50/250
54870894	120+	50/250
54870704	150+	50/250
54871066	180+	50/250
54871009	220+	50/250
31418841	240+	50/250
31418981	320+	50/250
31418866	400+	50/250
6"		
54870886	80+	50/250
54870878	120+	50/250
54870688	150+	50/250
54870696	180+	50/250
54870563	220+	50/250
31418940	240+	50/250
31418833	320+	50/250
31418825	400+	50/250

Random Orbital Sanding – Qualifying Products (cont.)

3M™ Film Disc 375L

- Premium aluminum oxide abrasive offers a fast cut and long life and performs well on many surfaces
- Flexible film sheet conforms smoothly to contours and rounded edges
- Durable film backing is tear-resistant and provides a uniform, consistent finish
- Open coat construction provides an aggressive cut
- Available with Hookit™ and Stikit™ attachment systems to make changing discs fast and easy



3M™ Hookit™ Clean Sanding Film Disc 375L

MSC ID	Grade	Qty/case
5" × NH		
38236436	60	50/250
54677430	80	50/250
39772702	100	50/250
54677539	120	50/250
15603525	150	50/250
39376827	180	50/250
54677695	220	50/250
39772553	240	50/250
54677745	320	50/250
15603558	400	50/250
6" × NH		
15604010	60	50/250
15603277	80	50/250
15603491	100	50/250
15603640	120	50/250
15603483	150	50/250
15604028	180	50/250
15604036	220	50/250
15603806	320	50/250

3M™ Stikit™ Film Disc Roll 375L

MSC ID	Grade	Discs/case
5" × NH		
54869763	P80	100/4
54869755	P100	100/4
54869581	P120	100/4
54869573	P150	100/4
54869565	P180	100/4
54869557	P220	100/4
54869540	P240	100/4
54869516	P320	100/4
54869508	P400	100/4
54869938	P500	50/250
80822059	P600	50/250
80822042	P800	50/250
80822034	P1000	50/250
80822026	P1200	50/250
80822018	P15000	50/250
6" × NH		
31893381	P60	100/4
54869482	P80	100/4
54869466	P100	100/4
15603525	P120	100/4
54869441	P150	100/4
54869433	P180	100/4
23077720	P220	100/4
54869417	P320	100/4
54869391	P400	100/4
54869912	P500	50/250
54870076	P600	50/250
54870068	P800	50/250
54869904	P1000	50/250
54869896	P1200	50/250
54870126	P15000	50/250

3M™ Hookit™ Film Disc 375L

MSC ID	Grade	Qty/case
5" × NH		
54871272	P60	50/250
80821754	P80	50/250
54871264	P100	50/250
80821739	P120	50/250
80821713	P150	50/250
80821705	P180	50/250
60393337	P220	50/250
54871348	P240	50/250
80821697	P320	50/250
80821689	P400	50/250
54871181	P500	50/250
80821796	P600	50/250
80821788	P800	50/250
80821770	P1000	50/250
80821762	P1200	50/250
80821721	P15000	50/250
6" × NH		
54871256	P60	50/250
54871249	P80	50/250
54871231	P100	50/250
54871223	P120	50/250
54871215	P150	50/250
54871207	P180	50/250
54871199	P220	50/250
54871330	P240	50/250
54871314	P320	50/250
54871306	P400	50/250
54871157	P500	50/250
54871298	P600	50/250
54871280	P800	50/250
54871132	P1200	50/250
54871124	P15000	50/250

3M™ Stikit™ Film Disc w/Tab 375L

MSC ID	Grade	Qty/case
5" × NH		
38128112	60	50/250
6" × NH		
54870035	60	50/250

Random Orbital Sanding – Qualifying Products (cont.)

3M Blue Abrasive Discs 321U

- Premium aluminum oxide abrasive offers a fast cut and long life and performs well on many surfaces
- Suitable for sanding and finishing on composites, gel coats, fiberglass, and other solid surface materials
- Durable paper backing is tear-resistant and provides a uniform, consistent finish
- Open coat and load-resistant coating prevents clogging to optimize cut and product life
- Available with Hookit™ and Stikit™ attachment systems and a convenient roll to make changing discs fast and easy



3M™ Hookit™ Blue Abrasive Disc 321U Multi-hole

MSC ID	Grade	Qty/case
5" × NH		
15603475	P80	50/4
15603459	P120	50/4
15603442	P150	50/4
15603566	P180	50/4
15603293	P220	50/4
15603871	P240	50/4
15603855	P400	50/4
15603798	P500	50/4
15603327	P600	50/4
15603319	P800	50/4
6" × NH		
15603830	P40	50/4
10084630	P80	50/4
15603822	P120	50/4
15603962	P150	50/4
15603905	P180	50/4
15603939	P220	50/4
15603244	P320	50/4
15603970	P400	50/4
15603988	P500	50/4
15603889	P600	50/4
14309033	P800	50/4

3M™ Stikit™ Blue Abrasive Disc Roll 321U

MSC ID	Grade	Qty/case
5" × NH		
15609845	P40	50/5
15609720	P80	100/5
19308436	P120	100/5
15609803	P150	100/5
15609795	P180	100/5
15609811	P220	100/5
15609712	P400	100/5
15609696	P500	100/5
15609829	P600	100/5
15609738	P800	100/5
6" × NH		
11710621	P40	25/5
98079957	P80	50/5
15609654	P120	100/5
15609647	P150	100/5
97997993	P180	100/5
90090176	P220	100/5
15609399	P320	100/5
15609761	P400	100/5
15609779	P500	100/5
15609753	P600	100/5
15609787	P800	100/5

3M™ Hookit™ Blue Abrasive Disc 321U No Hole

MSC ID	Grade	Qty/case
5" × NH		
12044772	P80	50/4
12044830	P120	50/4
15603624	P150	50/4
12044855	P180	50/4
15603681	P220	50/4
15603657	P400	50/4
15603954	P500	50/4
15603897	P600	50/4
15603434	P800	50/4
6" × NH		
15603616	P80	50/4
15603376	P120	50/4
15603913	P150	50/4
15603533	P180	50/4
15603699	P220	50/4
15603608	P400	50/4
15603715	P500	50/4
15603426	P600	50/4
15603673	P800	50/4

Random Orbital Sanding – Qualifying Products (cont.)

3M™ Scotch-Brite™ Hookit™ 7447 PRO Discs

- Very fine grade aluminum oxide abrasive cleans and finishes efficiently
- Use for cleaning, scuffing, finishing, and light paint removal on a variety of metals and plastics
- Unique fiber coating capability assures a fast, consistent scratch
- Nylon disc resists tearing and loading and will never rust, providing a long life, while flexible open web fibers conform to contoured surfaces
- Hookit™ attachment system makes disc changes quick and easy
- Can be used wet or dry and rinsed for repeated use



3M™ Scotch-Brite™ Hookit™ 7447 PRO Disc

MSC ID	Grade	Qty/case
5" x NH		
10429405	5 HLS, A VFN	40
6" x NH		
30571178	6 HLS, A VFN	40

3M™ Scotch-Brite™ Hookit™ 7448 PRO Discs

- Ultra-fine silicon carbide outperforms steel wool for cleaning, blending, prepping and finishing on metal, wood, plastics and composites
- Load and heat resistant non-woven web produces a more consistent finish than conventional non-woven abrasive products
- Conforms to irregular surfaces and gets into corners without losing performance
- Hookit™ attachment system makes disc changes quick and easy
- Can be used wet or dry and rinsed for repeated use



3M™ Scotch-Brite™ Hookit™ 7448 PRO Disc

MSC ID	Grade	Qty/case
5" x NH		
38370367	S ULF	40
15603996	5 HLS, S ULF	40
6" x NH		
15603764	6 HLS, S ULF	40

Roloc™ Discs Qualifying Products

3M™ Cubitron™ II Roloc™ Disc 984F

- Made with revolutionary 3M Precision-Shaped Ceramic Grain technology
- For grinding, blending and deburring of light to medium pressure applications for virtually all metal types
- Features a durable edge backing and grinding aid



MSC ID	Diameter (Inches)	Grade	Button color	Max. speed (RPM)	Min./case
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Roloc™ TR (plastic button)

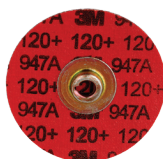
64402860	2"	36+	White	25,000	50/200
64402787	2"	60+	White	25,000	50/200
64402712	2"	80+	White	25,000	50/200
64402852	3"	36+	White	20,000	50/200
43096171	3"	60+	White	20,000	50/200
64402696	3"	80+	White	20,000	50/200

Roloc™ TSM (metal button)

64402829	2"	36+	Metal	25,000	50/200
64402753	2"	60+	Metal	25,000	50/200
64402670	2"	80+	Metal	25,000	50/200
64402811	3"	36+	Metal	20,000	50/200
64402746	3"	60+	Metal	20,000	50/200
40695629	3"	80+	Metal	20,000	50/200

3M™ Cubitron™ II Roloc™ Disc 947A

- Uses proprietary 3M Precision-Shaped Ceramic Grain to produce exceptionally fast cut rates
- Great for deburring, blending, cleaning, and finishing applications, while providing greater flexibility
- Features a durable edge backing and grinding aid



MSC ID	Diameter (Inches)	Grade	Button color	Max. speed (RPM)	Min./case
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Roloc™ TR (plastic button)

54872056	2"	40+	White	25,000	50/200
54871967	2"	60+	White	25,000	50/200
54873013	2"	80+	White	25,000	50/200
44465086	2"	120+	White	25,000	50/200
54872049	3"	40+	White	20,000	50/200
54871975	3"	60+	White	20,000	50/200
54873005	3"	80+	White	20,000	50/200
54872932	3"	120+	White	20,000	50/200

Roloc™ TSM (metal button)

54872015	2"	40+	Metal	25,000	50/200
54871934	2"	60+	Metal	25,000	50/200
54872973	2"	80+	Metal	25,000	50/200
54872908	2"	120+	Metal	25,000	50/200
54872007	3"	40+	Metal	20,000	50/200
54871926	3"	60+	Metal	20,000	50/200
54872965	3"	80+	Metal	20,000	50/200
54872890	3"	120+	Metal	20,000	50/200

3M™ Cubitron™ II Roloc™ Disc 982C

- Features 3M Precision-Shaped Ceramic Grain technology and a rigid fibre backing, for a combination of long life and fast, aggressive cut
- Cuts faster, requires less grinding pressure and lasts up to twice as long as conventional ceramic abrasives
- Excellent for edge chamfering, beveling, blending and removing carbon steel welds, mill scale, machining grooves and more



MSC ID	Diameter (Inches)	Grade	Button color	Max. speed (RPM)	Min./case
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Roloc™ TR (plastic button)

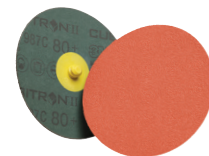
51444586	2"	36+	Brown	25,000	50/200
51444602	2"	60+	Orange	25,000	50/200
46847745	2"	80+	Yellow	25,000	50/200
45583101	3"	36+	Brown	20,000	50/200
52549433	3"	60+	Orange	20,000	50/200
52549946	3"	80+	Yellow	20,000	50/200

Roloc™ TSM (metal button)

45583085	2"	36+	Metal	25,000	50/200
45583051	2"	60+	Metal	25,000	50/200
45583135	2"	80+	Metal	25,000	50/200
45583077	3"	36+	Metal	20,000	50/200
45583044	3"	60+	Metal	20,000	50/200
45583119	3"	80+	Metal	20,000	50/200

3M™ Cubitron™ II Roloc™ Fibre Disc 987C

- Features 3M Precision-Shaped Ceramic Grain, engineered with ultra-sharp, fast cutting points that wear evenly, run cool, and optimize mineral breakdown to maximize life
- Best-in-class for weld prep and removal on heat sensitive alloys, such as stainless steel



MSC ID	Diameter (Inches)	Grade	Button color	Max. speed (RPM)	Min./case
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Roloc™ TR (plastic button)

33237694	2"	36+	Brown	25,000	50/200
11709953	2"	60+	Orange	25,000	50/200
33225749	2"	80+	Yellow	25,000	50/200
32251290	3"	36+	Brown	20,000	50/200
56087414	3"	60+	Orange	20,000	50/200
32254732	3"	80+	Yellow	20,000	50/200

Roloc™ TSM (metal button)

38521498	2"	36+	Metal	25,000	50/200
38522959	2"	60+	Metal	25,000	50/200
38523007	2"	80+	Metal	25,000	50/200
41763798	3"	36+	Metal	20,000	50/200
41763855	3"	60+	Metal	20,000	50/200
41763863	3"	80+	Metal	20,000	50/200

Roloc™ Discs – Qualifying Products (cont.)

3M™ Roloc™ Fibre Disc 782C

- Features 3M Precision-Shaped Ceramic Grain
- With its outstanding cut, durability and ease of use, this disc offers a major step up in performance over conventional fibre discs
- Advanced abrasive technology makes them an excellent choice for tough applications, including weld removal, blending and finish refinement
- Ideal choice for carbon steel



MSC ID	Diameter (Inches)	Grade	Button color	Max. speed (RPM)	Min./case
Roloc™ TR (plastic button) 					
32318396	2"	36+	Brown	25,000	50/200
32318362	2"	60+	Orange	25,000	50/200
32318370	2"	80+	Yellow	25,000	50/200
32318388	3"	36+	Brown	20,000	50/200
32318933	3"	60+	Orange	20,000	50/200
32318925	3"	80+	Yellow	20,000	50/200

3M™ Roloc™ Fibre Disc 787C

- Made with revolutionary 3M Precision-Shaped Ceramic Grain technology
- Provides long life and fast cut
- Cuts cooler, faster and lasts longer than conventional ceramic discs
- Optimized for use on stainless steel and nonferrous materials



MSC ID	Diameter (Inches)	Grade	Button color	Max. speed (RPM)	Min./case
Roloc™ TR (plastic button) 					
32318883	2"	36+	Brown	25,000	50/200
11929395	2"	60+	Orange	25,000	50/200
32318867	2"	80+	Yellow	25,000	50/200
32318776	2"	120+	White	25,000	50/200
32318941	3"	36+	Brown	20,000	50/200
32318958	3"	60+	Orange	20,000	50/200
32318859	3"	80+	Yellow	20,000	50/200
32318768	3"	120+	White	20,000	50/200

Roloc™ Discs – Qualifying Products (cont.)

Scotch-Brite™ Roloc™ Clean and Strip XT Pro Disc

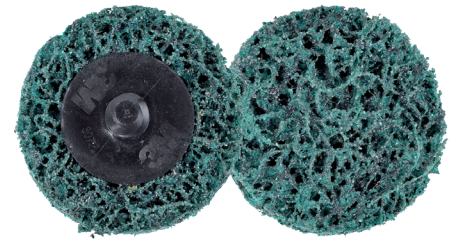
- Features silicon carbide abrasive mineral incorporated into an open nylon web to effectively remove rust, paint, mill scale, coatings and adhesives from surfaces without significantly altering the base material
- The high-strength fibers are highly conformable, resist chunking and loading, and perform well on the edges of a workpiece
- High speed rating, low vibration and low spark
- Roloc™ attachment system makes disc changes easy



MSC ID	Size Dia. (Inches) × ctr. hole	Grade	Disc color	Min./case
Roloc™ TR (plastic button) 				
11030012	3" × NH	SiC Extra Coarse, TR	Purple	10
11030251	3" × NH	S XCS	Purple	10/40
11030004	2" × NH	S XCS	Purple	10/60
11030319	4" × NH	S XCS	Purple	10/40

Scotch-Brite™ Roloc™ Clean and Strip XT Pro Extra Cut Disc

- Aluminum oxide abrasive mineral in an open nylon web effectively removes heavy rust, thick paint and corrosion while also scratching the base material underneath to save you time
- The high-strength fibers are highly conformable, resist chunking and loading, and perform well on the edges of a workpiece
- High speed rating and low vibration
- Roloc™ attachment system makes disc changes easy



MSC ID	Size Dia. (Inches) × ctr. hole	Grade	Disc color	Min./case
Roloc™ TR (plastic button) 				
11030103	3" × NH	A XCS	Green	10/40
11030087	3" × NH	A/O Extra Coarse, TR	Green	10
11030129	4" × NH	A XCS	Green	10/40
11030327	2" × NH	A/O Extra Coarse, TR	Green	10/60

Roloc™ Discs – Qualifying Products (cont.)

Scotch-Brite™ Roloc™ Surface Conditioning Disc (SC-DR)

- Combines our durable, non-woven disc with the efficient 3M™ Roloc™ quick-change attachment system
- An effective disc that cleans, finishes, blends and deburrs
- Conformable, non-woven disc combined with Roloc backing allows for aggressive cuttings
- Open-web construction resists loading and runs cool, allowing for consistent finishes



MSC ID	Diameter (Inches)	Grade	Button color	Max. speed (RPM)	Min./case
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Roloc™ TR (plastic button)

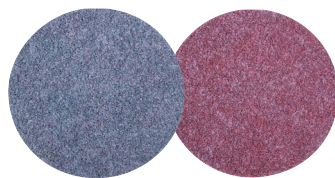
00222810	2"	A CRS	Brown	25,000	50/200
00222844	2"	A MED	Maroon	25,000	50/200
00222877	2"	A VFN	Blue	25,000	50/200
00222901	2"	S SFN	Gray	25,000	50/200
00222828	3"	A CRS	Brown	18,000	25/100
00222851	3"	A MED	Maroon	18,000	25/100
00222885	3"	A VFN	Blue	18,000	25/100
00222919	3"	S SFN	Gray	18,000	25/100

Roloc™ TSM (metal button)

01233121	2"	A CRS	Metal	25,000	50/200
01233113	2"	A MED	Metal	25,000	50/200
01233154	2"	A VFN	Metal	25,000	50/200
01233139	3"	A CRS	Metal	18,000	25/100
01233147	3"	A MED	Metal	18,000	25/100
01233196	3"	A VFN	Metal	18,000	25/100

Scotch-Brite™ Roloc™ Light Grinding and Blending Disc (GB-DR)

- 3M ceramic aluminum oxide blend abrasive grain
- Resists edge wear
- Great for light grinding, deburring and blending on all metals



Super duty: Blue Heavy duty: Pink

MSC ID	Diameter (Inches)	Grade	Button color	Max. speed (RPM)	Min./case
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Roloc™ TR (plastic button)

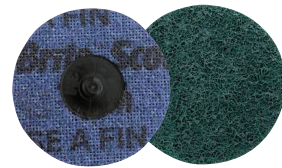
43350008	2"	A CRS SD	Blue	25,000	50/200
43349992	2"	A CRS HD	Pink	25,000	50/200
43350024	3"	A CRS SD	Blue	18,000	25/100
43350016	3"	A CRS HD	Pink	18,000	25/100

Roloc™ TSM (metal button)

50867829	2"	A CRS SD	Blue	25,000	50/200
43970110	2"	A CRS HD	Pink	25,000	50/200
43970102	3"	A CRS SD	Blue	18,000	25/100
13354014	3"	A CRS HD	Pink	18,000	25/100

Scotch-Brite™ Roloc™ Surface Conditioning Disc (SE-DR)

- Coarse, tough non-woven disc with a strong edge aggressively deburrs and finishes



MSC ID	Diameter (Inches)	Grade	Button color	Max. speed (RPM)	Min./case
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Roloc™ TR (plastic button)

74667262	2"	A CRS	Brown	25,000	50/200
74667270	2"	A MED	Maroon	25,000	50/200
05464573	2"	A FIN	Green	25,000	50/200
74667288	3"	A CRS	Brown	18,000	25/100
74667296	3"	A MED	Maroon	18,000	25/100
06877898	3"	A FIN	Green	18,000	25/100

Scotch-Brite™ Roloc™ Deburr and Finish PRO Unitized Wheel (DP-UW)

- Soft to reduce defects, yet wears like iron, for fewer wheel changeouts
- Faster burr removal and better finish



MSC ID	Size (dia. x thk. x ctr. hole)	Grade	Max. speed (RPM)	Qty./case
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Roloc™ TR (plastic button)

54871538	2" x 1/4" x NH	4C MED+	22,100	60
13353917	2" x 1/8" x NH	6C MED+	22,100	120
36169704	2" x 1/4" x NH	6C MED+	22,100	60
54871520	3" x 1/4" x NH	4C MED+	15,100	40
54871546	3" x 1/8" x NH	6C MED+	15,100	40
54871553	3" x 1/4" x NH	6C MED+	15,100	40
55781918	2" x 1/4" x NH	8C CRS+	22,100	60
31083157	3" x 1/8" x NH	8C CRS+	15,100	40
38744371	3" x 1/4" x NH	8C CRS+	15,100	40

3M™ File Belts Qualifying Products

Scotch-Brite™ Durable Flex (DF) Surface Conditioning Belts

- Durable flex belt has great edge durability
- Aggressive and long lasting belt for deburring, finishing, blending and cleaning
- The reinforced low-stretch backing offers good flexibility



MSC ID	Size	Grade	Color	Qty/case
79113718	1/2" × 18"	A CRS	Brown	20
79113551	1/2" × 18"	A MED	Maroon	20
79113635	1/2" × 18"	A FIN	Green	20
79113726	1/2" × 24"	A CRS	Brown	20
79113569	1/2" × 24"	A MED	Maroon	20
79113643	1/2" × 24"	A FIN	Green	20
79113734	3/4" × 18"	A CRS	Brown	20
79113577	3/4" × 18"	A MED	Maroon	20
79113650	3/4" × 18"	A FIN	Green	20

Right Angle Solutions Qualifying Products

3M™ Cubitron™ II Depressed Center Grinding Wheels — Type 27

- Fast-cutting, long-lasting wheels that require less pressure
- Ideal for heavy grinding and weld removal
- Specially formulated for use on stainless and mild steel
- Available with quick change attachment
- DO NOT USE ON TOOLS WITHOUT GUARDS

MSC ID	Diameter × thickness × arbor hole (Inches)	Max. RPM	Quantity (inner/case)
35191287	4" × 1/4" × 3/8"	15,300	10/20
35191311	4 1/2" × 1/4" × 7/8"	13,300	10/20
35191303	5" × 1/4" × 7/8"	12,250	10/20
T27 Quick Change			
20419479	4 1/2" × 1/4" × 5/8-11"	13,300	10/20



3M™ Silver Depressed Center Grinding Wheels

- Powered by the legendary speed and long life of 3M Precision-Shaped Ceramic Grain
- Ideal for weld removal, beveling, edge chamfering and more
- Offers a longer life and faster cut than aluminum oxide, alumina zirconia and conventional ceramic abrasives
- Available with quick change attachment

MSC ID	Diameter × thickness × arbor hole (Inches)	Max. RPM	Quantity (Inner/case)
46516621	4" × 1/4" × 3/8"	15,300	10/20
46516597	4 1/2" × 1/4" × 7/8"	13,300	10/20
46516613	5" × 1/4" × 7/8"	12,250	10/20
T27 Quick Change			
20419388	4 1/2" × 1/4" × 5/8-11"	13,300	10/20
23200272	5" × 1/4" × 5/8-11"	12,250	10/20



Right Angle Solutions – Qualifying Products (cont.)

3M™ Cubitron™ II Fibre Disc 982CX Pro

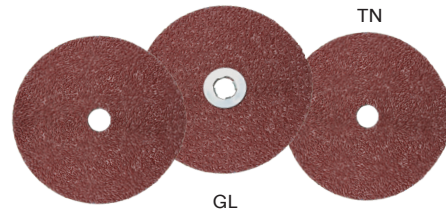
- Faster cutting and longer lasting than our legendary 3M™ Cubitron™ II Fibre Discs 982C
- Cuts with less pressure—designed to help reduce operator fatigue
- Ideal for medium and high-pressure applications like weld removal, beveling and other aggressive grinding applications



MSC ID	Diameter* (Inches)	Grade	Max. RPM	Min/case
3M™ Cubitron™ II Fibre Disc 982CX Pro, Grade 36+				
15548712	4 x 5/8	36+	15,000	25/100
15548639	4 x 7/8	36+	15,000	25/100
15548696	4 1/2 x 7/8	36+	13,300	25/100
15548753	5 x 7/8	36+	12,000	25/100
15548761	6 x 7/8	36+	10,000	25/100
15548746	7 x 7/8	36+	8,600	25/100
15548662	9 1/8 x 7/8	36+	6,600	25/100
TN Quick Change				
15548647	4 1/2 x 5/8-11	36+	13,300	25/100
15548738	5 x 5/8-11	36+	12,000	25/100
15548738	5 x 5/8-11	36+	8,600	25/100
GL Quick Change				
15548670	4 1/2 x 5/8-11	36+	13,300	25/100
15548720	4 1/2 x 5/8-11	36+	12,000	25/100
15548688	7 x 5/8-11	36+	8,600	25/100

3M™ Cubitron™ II Fibre Disc 982C for carbon steel

- Engineered to cut faster, cooler and with less grinding pressure than conventional abrasives
- Ideal for carbon steel applications



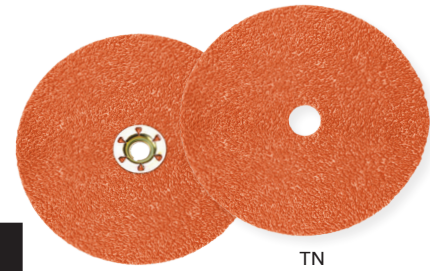
MSC ID	Diameter* (Inches)	Grade	Max. RPM	Min/case
08317935	4 1/2" x 7/8"	36+	13,300	25/100
71368971		60+	13,300	25/100
71369060		80+	13,300	25/100
08317984	4 1/2" x TN**	36+	13,300	25/100
71369011		60+	13,300	25/100
71369029		80+	13,300	25/100
07777873	5" x 7/8"	36+	12,000	25/100
71368930		60+	12,000	25/100
71368948		80+	12,000	25/100
50971811	5" x TN**	36+	12,000	25/100
71369003		60+	12,000	25/100
71369037		80+	12,000	25/100
73908436	7" x 7/8"	36+	8,600	25/100
72871973		60+	8,600	25/100
73435828		80+	8,600	25/100
08317950	7" x TN**	36+	8,600	25/100
71368997		60+	8,600	25/100
71369045		80+	8,600	25/100
08317943	9 1/8" x 7/8"	36+	6,600	25/100
71368963		60+	6,600	25/100
71368989		80+	6,600	25/100

*Other sizes available upon request. **Quick Change Tinneman Nut Attachment

Right Angle Solutions – Qualifying Products (cont.)

3M™ Cubitron™ II Fibre Disc 987C for stainless steel and other heat-sensitive alloys

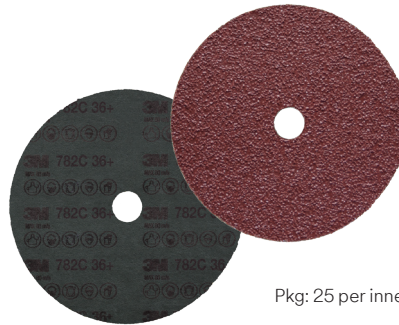
- Provide a fast, cool, long-lasting cut that requires less grinding pressure
- Ideal for cool cutting on stainless steel, high-nickel alloys, and superalloys



MSC ID	Diameter* (Inches)	Grade	Max. RPM	Min/case
43644715	4 1/2" x 7/8"	36+	13,300	25/100
71369052		60+	13,300	25/100
71369102		80+	13,300	25/100
54160510	4 1/2" x TN**	36+	13,300	25/100
71369144		60+	13,300	25/100
71369177		80+	13,300	25/100
51208916	5" x 7/8"	36+	12,000	25/100
71369094		60+	12,000	25/100
71369110		80+	12,000	25/100
00884379	5" x TN**	36+	12,000	25/100
71369169		60+	12,000	25/100
71369185		80+	12,000	25/100
00882480	7" x 7/8"	36+	8,600	25/100
71369078		60+	8,600	25/100
71369128		80+	8,600	25/100
00884445	7" x TN**	36+	8,600	25/100
71369151		60+	8,600	25/100
71369193		80+	8,600	25/100
72798846	9 1/8" x 7/8"	36+	6,600	25/100
71369086		60+	6,600	25/100
71369136		80+	6,600	25/100

3M™ Fibre Disc 782C for carbon steel

- Features 3M Precision-Shaped Ceramic Grain
- For weld removal, beveling, edge chamfering and more
- Ideal for carbon steel applications



Pkg: 25 per inner, 100 per case

MSC ID	Diameter* (Inches)	Grade	Max. RPM	Min/case
37671229	4 1/2" x 7/8"	36+	13,300	25/100
32324543		60+	13,300	25/100
32324535		80+	13,300	25/100
32324493	5" x 7/8"	36+	12,000	25/100
32324485		60+	12,000	25/100
32324477		80+	12,000	25/100
32324469	7" x 7/8"	36+	8,600	25/100
32324436		60+	8,600	25/100
32324428		80+	8,600	25/100
32324410	9 1/8" x 7/8"	36+	6,600	25/100
32324402		60+	6,600	25/100
32324394		80+	6,600	25/100

TN Quick Change

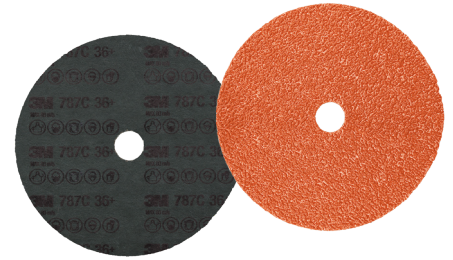
32318594	4 1/2" x 5/8-11"***	36+	13,300	25/100
32318586		60+	13,300	25/100
32318578		80+	13,300	25/100
37967064	5" x 5/8-11"***	36+	12,000	25/100
32318560		60+	12,000	25/100
32318552		80+	12,000	25/100
32318545	7" x 5/8-11"***	36+	8,600	25/100
32318537		60+	8,600	25/100
32318529		80+	8,600	25/100

*Other sizes available upon request. **Quick Change Tinneman Nut Attachment

Right Angle Solutions – Qualifying Products (cont.)

3M™ Fibre Discs 787C for stainless steel nonferrous metals

- Feature 3M Precision-Shaped Ceramic Grain technology
- Ideal for weld removal, beveling, edge chamfering and more
- Optimized for stainless steel and heat sensitive alloys



MSC ID	Diameter* (Inches)	Grade	Max. RPM	Min/case
32324378	4 1/2" × 7/8"	36+	13,300	25/100
32324360		60+	13,300	25/100
32324352		80+	13,300	25/100
32324386		120+	13,300	25/100
32324303	5" × 7/8"	36+	12,000	25/100
33682527		60+	12,000	25/100
32324295		80+	12,000	25/100
33682477		120+	12,000	25/100
32324279	7" × 7/8"	36+	8,600	25/100
37884293		60+	8,600	25/100
32324261		80+	8,600	25/100
32324287		120+	8,600	25/100
32324246	9 1/8" × 7/8"	36+	6,600	25/100
32324238		60+	6,600	25/100
32324584		80+	6,600	25/100
32324253		120+	6,600	25/100
TN Quick Change				
32318503	4 1/2" × 5/8-11""	36+	13,000	25/100
32318495		60+	13,000	25/100
32318487		80+	13,000	25/100
32318511		120+	13,000	25/100
32318461	5" × 5/8-11""	36+	12,000	25/100
32318453		60+	12,000	25/100
32318446		80+	12,000	25/100
32318479		120+	12,000	25/100
32318412	7" × 5/8-11""	36+	8,600	25/100
32318420		60+	8,600	25/100
32318404		80+	8,600	25/100
32318438		120+	8,600	25/100

Right Angle Solutions – Qualifying Products (cont.)

3M™ Cubitron™ II Flap Discs 967A

- Powered by 3M Precision-Shaped Ceramic Grain
- Offer a great balance of fast cut and long life for a variety of medium-duty applications
- Constructed with a poly-cotton backing that exposes fresh material as they wear, for a fast, forgiving cut



MSC ID	Grade	Diameter x center hole (Inches)	Max. RPM (MOS)	Qty/case
52673498	40+	4 1/2" x 5/8-11"	13,300	10
52673555	60+			
52673456	80+			
39181060	40+	4 1/2" x 5/8-11" GIANT	13,300	10
39181052	60+			
39181045	80+			
91252106	40+	4 1/2" x 7/8"	13,300	10
80891815	60+			
03441367	80+			
39181037	40+	4 1/2" x 7/8" GIANT	13,300	10
53073482	60+			
39181029	80+			
39181011	40+	5" x 7/8"	12,000	10
39181003	60+			
39180997	80+			
49006745	40+	5" x 5/8-11"	12,000	10
10925865	60+			
10925824	80+			



MSC ID	Grade	Diameter x center hole (Inches)	Max. RPM (MOS)	Qty/case
39180922	40+	4" x 3/8-24"	15,000	10
39180914	60+			
39180906	80+			
45638731	40+	4 1/2" x 5/8-11"	13,300	10
52673506	60+			
52673563	80+			
39180856	40+	4 1/2" x 5/8-11" GIANT	13,300	10
39181193	60+			
39181185	80+			
45619533	40+	4 1/2" x 7/8"	13,300	10
03435302	60+			
03435351	80+			
57454233	40+	4 1/2" x 7/8" GIANT	13,300	10
44664738	60+			
39181177	80+			
39181169	40+	5" x 7/8"	12,000	10
39181151	60+			
39181144	80+			
10925832	40+	5" x 5/8-11"	12,000	10
10925840	60+			
10925857	80+			



Right Angle Solutions – Qualifying Products (cont.)

3M™ Cubitron™ II Flap Discs 969F

- Powered by 3M Precision-Shaped Ceramic Grain
- Feature a tough polyester backing to hold up under demanding applications like heavy grinding, deburring and beveling



MSC ID	Grade	Diameter x center hole (Inches)	Max. RPM (MOS)	Qty/case
32324980	40+	4 1/2" x 5/8-11"	13,300	10
32324964	60+			
32324956	80+			
32324808	40+	4 1/2" x 5/8-11" GIANT	13,300	10
32324790	60+			
32324782	80+			
50327410	40+	4 1/2" x 7/8"	13,300	10
32324949	60+			
32324931	80+			
32324774	40+	4 1/2" x 7/8" GIANT	13,300	10
32324766	60+			
32324758	80+			
32324899	40+	5" x 7/8"	12,000	10
32324881	60+			
32324873	80+			
32324923	40+	5" x 5/8-11"	12,000	10
32324915	60+			
32324907	80+			



MSC ID	Grade	Diameter x center hole (Inches)	Max. RPM (MOS)	Qty/case
32325284	40+	4" x 3/8-24"	15,000	10
32325276	60+			
32325268	80+			
50682699	40+	4 1/2" x 5/8-11"	13,300	10
32325334	60+			
32325326	80+			
32325102	40+	4 1/2" x 5/8-11" GIANT	13,300	10
32325094	60+			
32325086	80+			
32325318	40+	4 1/2" x 7/8"	13,300	10
32325300	60+			
32325292	80+			
32325078	40+	4 1/2" x 7/8" GIANT	13,300	10
32325060	60+			
32325052	80+			
32325185	40+	5" x 7/8"	12,000	10
32325177	60+			
32325169	80+			
32325227	40+	5" x 5/8-11"	12,000	10
32325201	60+			
32325193	80+			

Right Angle Solutions – Qualifying Products (cont.)



3M™ Flap Discs 769F

- Feature 3M Precision-Shaped Ceramic Grain technology
- Designed to provide a consistent cut over a wide range of medium- and heavy-duty applications



MSC ID	Grade	Diameter × center hole (Inches)	Max. RPM (MOS)	Qty/case
11029907	40+	4 1/2" × 7/8"	13,300	10
11029667	60+			
11029535	80+			
11029899	120+			
11029568	40+	5" × 7/8"	12,000	10
11029725	60+			
11029527	80+			
11029584	120+			



MSC ID	Grade	Diameter × center hole (Inches)	Max. RPM (MOS)	Qty/case
11029634	40+	4 1/2" × 7/8"	13,300	10
11029543	60+			
11029600	80+			
11029717	120+			
11029741	40+	5" × 7/8"	12,000	10
11029550	60+			
11029758	80+			
11029824	120+			

Right Angle Solutions – Qualifying Products (cont.)

3M™ Cubitron™ II Cut & Grind Wheels

- Designed to be used as both a depressed center grinding wheel and a cut-off wheel
- Ideal for cutting, grinding, gouging and more



3M™ Cubitron™ II Cut & Grind Wheels – T27

MSC ID	Diameter × thickness × arbor hole (Inches)	Max. RPM	Quantity (Case)
32761017	4" × 1/8" × 3/8"	15,300	10/20
31888084	5" × 1/8" × 7/8"	12,250	10/20
32760993	4 1/2" × 1/8" × 7/8"	13,300	10/20
T27 Quick Change			
20603924	4 1/2" × 1/8" × 5/8-11"	13,300	10/20
20603908	5" × 1/8" × 5/8-11"	12,250	10/20

3M™ Cut & Grind Wheels

- Feature 3M Precision-Shaped Ceramic Grain technology
- Long lasting and versatile wheel, ideal for back gouging, fillet weld removal, and notching



3M™ Cut & Grind Wheels

MSC ID	Diameter × thickness × arbor hole (Inches)	Max. RPM	Quantity (Case)
96860333	4" × 1/8" × 3/8"	15,300	10/20
96860325	4" × 1/8" × 7/8"	12,250	10/20
96860358	5" × 1/8" × 7/8"	13,300	10/20
T27 Quick Change			
20419396	4 1/2" × 1/8" × 5/8-11"	13,300	10/20
20419511	5" × 1/8" × 5/8-11"	12,250	10/20

3M™ Cubitron™ II Cut-Off Wheels

- Feature 3M Precision-Shaped Ceramic Grain for a faster, longer-lasting cut
- Designed to provide high cut rates on all types of ferrous metals, stainless steels, alloy steels and cast iron
- Available in Type 1 (straight), Type 27 (depressed center) and with a quick change attachment



3M™ Cubitron™ II Cut-Off Wheel - T1

MSC ID	Diameter × thickness × arbor hole (Inches)	Max. RPM	Quantity (Case)
81680431	3" × .035" × 3/8"	25,465	25/50
81680415	3" × .06" × 3/8"	25,465	25/50
81680399	4" × .035" × 3/8"	19,100	25/50
81680373	4" × .06" × 3/8"	19,100	25/50
81680332	4" × .125" × 3/8"	19,100	25/50
39133103	4 1/2" × .040" × 7/8"	13,300	25/50

3M™ Cubitron™ II Cut-Off Wheel – T27

MSC ID	Diameter × thickness × arbor hole (Inches)	Max. RPM	Quantity (Case)
39226915	4 1/2" × .040" × 7/8"	13,300	25/50
81679748	4 1/2" × .045" × 7/8"	13,300	25/50
81679706	4 1/2" × .125" × 7/8"	13,300	25/50
81679698	5" × .045" × 7/8"	12,250	25/50
81679664	5" × .09" × 7/8"	12,250	25/50
T27 Quick Change			
81679755	4 1/2" × .045" × 5/8-11"	13,300	25/50
81679730	4 1/2" × .09" × 5/8-11"	13,300	25/50
81679714	4 1/2" × .125" × 5/8-11"	13,300	25/50

Right Angle Solutions – Qualifying Products (cont.)

3M™ Silver Cut-Off Wheels

- Feature 3M Precision-Shaped Ceramic Grain technology for a fast, smooth, long lasting cut
- Ideal for all types of ferrous metals, stainless steels and alloy steels
- Available in Type 1 (straight) and Type 27 (depressed center)



3M™ Silver Cut-Off Wheels – Type 1

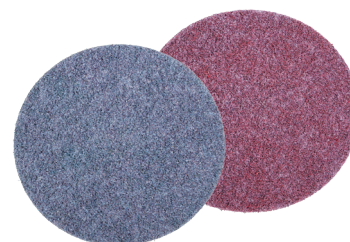
MSC ID	Diameter x thickness x arbor hole (Inches)	Max. RPM	Quantity (Case)
46518908	3" x .035" x 3/8"	25,465	25/50
46518890	3" x .060" x 3/8"	25,465	25/50
46518874	4" x .035" x 3/8"	19,100	25/50
46518858	4" x .060" x 3/8"	19,100	25/50
46518932	4" x .125" x 3/8"	19,100	25/50
46518866	4.5" x .040" x 7/8"	13,300	25/50
46518841	4.5" x .045" x 7/8"	13,300	25/50
46518825	5" x .045" x 7/8"	12,250	25/50

3M™ Silver Cut-Off Wheels – Type 27

MSC ID	Diameter x thickness x arbor hole (Inches)	Max. RPM	Quantity (Case)
46518833	4 1/2" x .045" x 7/8"	13,300	25/50
10925774	4 1/2" x .093" x 7/8"	13,300	25/50
46518809	5" x .045" x 7/8"	12,250	10/20

Scotch-Brite™ Light Grinding and Blending Discs

- Durable discs constructed with aluminum oxide blend abrasive grain for an aggressive cut, long life and consistent finish
- Ideal for light grinding applications to produce a burr-free and paintable finish
- Resistant to edge wear



Scotch-Brite™ Light Grinding & Blending Disc – TN Quick Change

MSC ID	Diameter x center hole (Inches)	Grade	Max. RPM	Quantity (Case)
85163541	4 1/2" x 5/8-11**	A CRS SD	13,000	50
85163491		A CRS HD	13,000	50
82590167	5" x 5/8-11**	A CRS SD	12,000	50
43349877		A CRS HD	12,000	50

*Quick Change Tinneman Nut Attachment

Scotch-Brite™ Light Grinding & Blending Disc – Center Hole Disc

MSC ID	Diameter x center hole (Inches)	Grade	Max. RPM	Qty/case
43645035	4 1/2" x 7/8"	A CRS SD	10,000	50
43644939		A CRS HD	10,000	50
43349927	5" x 7/8"	A CRS SD	10,000	50
43349919		A CRS HD	10,000	50

SD = Super Duty HD = Heavy Duty

Right Angle Solutions – Qualifying Products (cont.)

Scotch-Brite™ Clean and Strip XT Pro Discs

- Made with silicon carbide mineral
- Features optimized nylon fiber web for reduced chunking and higher conformability
- Ideal for surface prep and rust, paint and light mill scale removal

MSC ID	Diameter × center hole (Inches)	Type	Grade	Max. RPM	Qty/case
11030111	4 1/2" × 5/8-11"	Type 27 Quick Change	S XCS	13,300	10
11029972	4 1/2" × 7/8"	Type 27	S XCS	13,300	10
11030137	4 1/2" × 5/8-11"	TN Quick Change	S XCS	13,300	10
11030095	5" × 5/8-11"	Type 27 Quick Change	S XCS	12,000	10



Scotch-Brite™ Clean & Strip XT Pro Extra Cut Disc

- Made from aluminum oxide mineral
- Removes thick paint, coatings and weld discoloration, as well as heavy rust and rust pits without leaving divots

MSC ID	Diameter × center hole (Inches)	Type	Grade	Max. RPM	Qty/case
11030269	4 1/2" × 5/8-11"	Type 27 Quick Change	A XCS	13,300	10
11030293	4 1/2" × 7/8"	Type 27	A XCS	13,300	10
11030350	4 1/2" × 5/8-11"	TN Quick Change	A XCS	13,300	10
11030244	5" × 5/8-11"	Type 27 Quick Change	A XCS	12,000	10



*Quick Change Tinneman Nut Attachment

Right Angle Solutions – Qualifying Products (cont.)

Scotch-Brite™ Deburr & Finish PRO Unitized Wheel

- Smoother feel and finer finish than flap brushes, cartridge rolls, and other specialty products
- Ceramic material, combined with the self-sharpening grain, provides longer life and helps get the job done faster
- Useful in many industries: Rotors, Shrouds, Gears, Sheet Metal, Machined and Stamped Parts

MSC ID	Diameter x center hole (Inches)	Grade	Max. RPM	Qty/case
53074530	2" x 1/8" x 1/4"	6C MED+	22,100	60
19071620	2" x 1/8" x 1/4"	8C CRS+	22,100	60
23226756	2" x 1/4" x 1/4"	2S FIN+	16,100	60
31890908	2" x 1/4" x 1/4"	6C MED+	22,100	60
13008495	2" x 1/4" x 1/4"	8C CRS+	22,100	60
11412756	2" x 1/2" x 1/4"	2S FIN+	16,100	30
31890890	2" x 1/2" x 1/4"	6C MED+	22,100	30
23077589	2" x 1/2" x 1/4"	8C CRS+	22,100	30
23077522	2" x 3/4" x 1/4"	2S FIN+	16,100	20
31890874	2" x 3/4" x 1/4"	6C MED+	22,100	20
11412707	2" x 3/4" x 1/4"	8C CRS+	22,100	20
31890866	2" x 1" x 1/4"	6C MED+	22,100	10
23077662	3" x 1/8" x NH	4C MED+	16,100	40
31890858	3" x 1/8" x 1/4"	6C MED+	18,100	40
23077571	3" x 1/8" x 3/8"	8C MED+	16,100	40
23077670	3" x 1/8" x 3/8"	8C CRS+	18,100	40
23077506	3" x 1/4" x 1/4"	2S FIN+	12,100	40
31890841	3" x 1/4" x 1/4"	6C MED+	18,100	40
23226772	3" x 1/4" x 1/4"	8C CRS+	18,100	10
23077563	3" x 1/4" x 1/4"	8C MED+	18,100	40
23077530	3" x 1/4" x 3/8"	8C CRS+	10,000	10
23077712	3" x 1/2" x 1/4"	8C Med+	18,100	20
95795456	3" x 1/2" x 1/4"	2S FIN+	10,000	20
31890833	3" x 1/2" x 1/4"	6C MED+	18,100	20
31084742	3" x 1/2" x 1/4"	8C CRS+	10,000	20
54868591	3" x 1/2" x 3/8"	6C MED+	10,000	20
23077555	3" x 1/2" x 3/8"	2S FIN+	18,100	20
54868617	3" x 1/2" x 3/8"	4C MED+	18,100	40
23077738	3" x 1/2" x 3/8"	8C MED+	18,100	20
23077670	3" x 1/2" x 3/8"	8C CRS+	18,100	20
97786099	3" x 1/2" x 1/4"	4C MED+	18,100	20
31890825	3" x 3/4" x 1/4"	6C MED+	15,100	20
23077704	3" x 3/4" x 1/4"	8C MED+	15,100	20
11412749	3" x 1" x 1/4"	2S FIN+	10,000	10
31890817	3" x 1" x 1/4"	6C MED+	15,100	10
23077746	3" x 1" x 1/4"	8C CRS+	15,100	20
23077696	3" x 1" x 3/8"	8C CRS+	10,000	20



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