

3M™ Abrasives for Right-Angle Systems



The Right Choice

Cut, grind, finish and more...
with a world-class abrasive
system that helps you **work
smarter, finish faster!**

3M



Your Power Team

For metal fabrication and finishing

Take your shop to the next level of performance and productivity – by teaming up the unmatched grinding speed and long life of 3M™ Cubitron™ II Abrasives with the ease-of-use and versatility of Scotch-Brite™ abrasive products.

CUBITRON™ II

Scotch-Brite™



- The ideal choice for:**
- Grinding
 - Weld removal
 - Deburring
 - Beveling
 - Cutting
 - Blending

- The ideal choice for:**
- Blending
 - Cleaning
 - Deburring
 - Paint and rust removal
 - Light grinding
 - Finishing and polishing



Complete your lineup
with genuine 3M™ Power Tools
Professional grade sanders, grinders
and cutoff wheel tools, optimized for
use with 3M™ Cubitron™ II Abrasives.
Light, rugged and powerful!





CUBITRON™ II

For speed, long life and ease of use, nothing comes close to the power of Cubitron II abrasives

For grinding, weld blending, deburring and other tough metal finishing jobs, 3M™ Cubitron™ II Abrasives outperform every other disc in their class – thanks to a breakthrough 3M technology that re-writes the rules for speed, consistency and abrasive life.

The secret lies in the revolutionary precision-shaped ceramic grain technology pioneered by 3M. As the triangular shaped grain wears, it continuously fractures to form sharp points and edges that slice through metal, wear evenly and provide super-long life and consistency at any grinding pressure.

Optimized for applications including:

- Grinding
- Weld removal
- Deburring
- Beveling
- Cutting
- Blending






Used in industries such as:

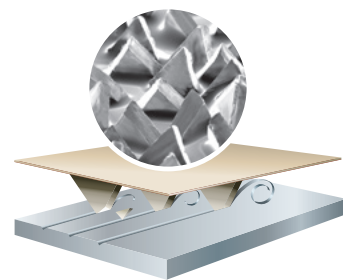
- Ship building
- Structural steel
- General metal fabrication
- Oil and gas
- Agricultural, industrial and construction machinery
- Stainless steel fabrication

Use this table as a guideline to choose the disc construction optimized for your application.

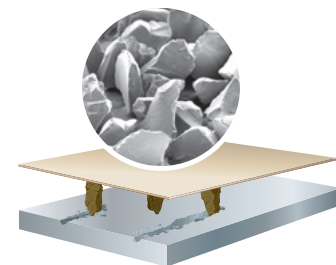
- Recommended application
- Additional application

Choose the Right Disc for the Job

					
	Fibre Discs	Cut & Grind Wheels	Flap Discs	Cut-Off Wheels	Depressed Center Grinding Wheels
Cutting		●		●	
Notching		●			
Gouging		●			●
Fillet Weld Removal		●			●
Beveling	●	●	●		●
Flame Cut Smoothing	●	●	●		●
Scale Removal	●	●	●		●
Weld Removal	●	●	●		●
Contoured Areas	●		●		



3M precision-shaped grains are electronically oriented to form sharp peaks that easily “slice” through metal. They stay cooler, cut faster and last longer.



Conventional ceramic abrasive grain tends to “plow” through the metal, causing heat to build up in the workpiece and the abrasive – resulting in a slower cut, shorter disc life and undesirable effects, such as burnishing.

3M™ Cubitron™ II Depressed Center Grinding Wheels



Go the distance

Cubitron II depressed center grinding wheels are fast cutting, long lasting and require less pressure. These cool cutting wheels are 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.

3M™ Cubitron™ II Depressed Center Grinding Wheel – T27

Diameter x Thickness x Arbor Hole (inches)	UPC (051115-)	Max RPM	Quantity (Inner/Case)
4 x 1/4 x 3/8	66598-1	15,300	10/20
4 x 1/4 x 5/8	66597-4	15,300	10/20
4 1/2 x 1/4 x 7/8	66587-5	13,300	10/20
5 x 1/4 x 7/8	66588-2	12,250	10/20
6 x 1/4 x 7/8	66589-9	10,200	10/20
7 x 1/4 x 7/8	66590-5	8,500	10/20
9 x 1/4 x 7/8	66591-2	6,650	10/20

3M™ Cubitron™ II Depressed Center Grinding Wheel – T27 Quick Change

Diameter x Thickness x Arbor Hole (inches)	UPC (051115-)	Max RPM	Quantity (Inner/Case)
4 1/2 x 1/4 x 5/8-11	66596-7	13,300	10/20
5 x 1/4 x 5/8-11	66592-9	12,250	10/20
6 x 1/4 x 5/8-11	66593-6	10,200	10/20
7 x 1/4 x 5/8-11	66594-3	8,500	10/20
9 x 1/4 x 5/8-11	66595-0	6,650	10/20





3M™ Cubitron™ II Cut & Grind Wheels

Cut. Grind. Done.

These versatile wheels are designed to be used both as a depressed center grinding wheel and as a cut-off wheel – making them ideal for cutting, grinding, gouging and more. After 10 minutes of use, they nearly double the output of our closest competitor while removing nearly 2x the material.

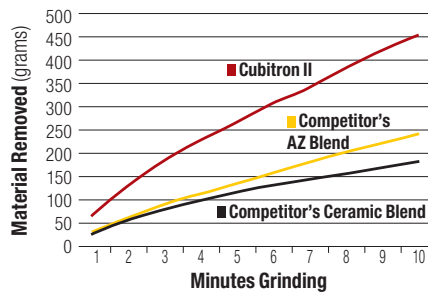
3M™ Cubitron™ II Cut & Grind Wheels – T27

Diameter x Thickness x Arbor Hole (inches)	UPC	Max RPM	Quantity (Inner/Case)
4 x 1/8 x 3/8	4046719-82276-8	15,300	10/20
4 x 1/8 x 5/8	4046719-82277-5	15,300	10/20
5 x 1/8 x 7/8	4046719-82278-2	12,250	10/20
4 1/2 x 1/8 x 7/8	4046719-82279-9	13,300	10/20
6 x 1/8 x 7/8	051141-28758-4	10,200	10/20
7 x 1/8 x 7/8	051141-28760-7	8,500	10/20
9 x 1/8 x 7/8	051141-28761-4	6,650	10/20

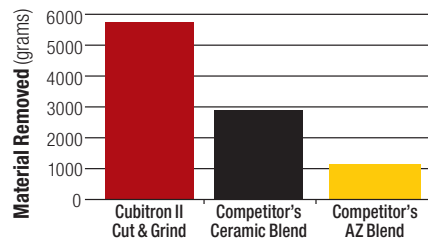
3M™ Cubitron™ II Cut & Grind Wheels – T27 Quick Change

Diameter x Thickness x Arbor Hole (inches)	UPC	Max RPM	Quantity (Inner/Case)
4 1/2 x 1/8 x 5/8-11	051141-28762-1	13,300	10/20
5 x 1/8 x 5/8-11	051141-28763-8	12,250	10/20
6 x 1/8 x 5/8-11	051141-28764-5	10,200	10/20
7 x 1/8 x 5/8-11	051141-28765-2	8,500	10/20
9 x 1/8 x 5/8-11	051141-28766-9	6,650	10/20

3M™ Cubitron™ II Cut & Grind Wheels Cut Faster! After 10 min., nearly double the output of our closest competitor



3M™ Cubitron™ II Cut & Grind Wheels Last Longer! Removes nearly 2x the material, compared to our closest competitor



3M™ Cubitron™ II Cut-Off Wheels



Cut to the chase

Cubitron II Cut-Off Wheels are designed to provide high cut rates on all types of ferrous metals, stainless steels, alloy steels and cast iron. They offer more than twice the life of competitive wheels, translating to lower costs. Plus, their fast, cool cutting action helps make your job easier!

3M™ Cubitron™ II Cut-Off Wheel – T1

Diameter x Thickness x Arbor Hole (inches)	UPC	Max RPM	Quantity (Inner/Case)
3 x .035 x 1/4	051115-66513-4	25,465	25/50
3 x .035 x 3/8	051115-66514-1	25,465	25/50
3 x .06 x 3/8	051115-66516-5	25,465	25/50
4 x .035 x 3/8	051115-66518-9	19,100	25/50
4 x .06 x 3/8	051115-66520-2	19,100	25/50
4 x .125 x 3/8	051115-66524-0	19,100	25/50
4 1/2 x .040 x 7/8	051125-86929-4	13,300	25/50
4 1/2 x .045 x 7/8	051115-66525-7	13,300	25/50
5 x .040 x 7/8	051125-86930-0	12,250	25/50
5 x .045 x 7/8	051115-66526-4	12,250	25/50
6 x .045 x 7/8	051115-66527-1	10,200	25/50
7 x .045 x 7/8	051115-66528-8	8,500	25/50

3M™ Cubitron™ II Cut-Off Wheel – T27

Diameter x Thickness x Arbor Hole (inches)	UPC	Max RPM	Quantity (Inner/Case)
4 1/2 x .040 x 7/8	051125-86946-1	13,300	25/50
4 1/2 x .045 x 7/8	051115-66531-8	13,300	25/50
4 1/2 x .125 x 7/8	051115-66535-6	13,300	25/50
5 x .040 x 7/8	051125-86945-4	12,250	25/50
5 x .045 x 7/8	051115-66537-0	12,250	25/50
5 x .09 x 7/8	051115-66539-4	12,250	25/50
6 x .045 x 7/8	051115-66541-7	10,200	25/50
7 x .09 x 7/8	051115-66543-1	8,500	25/50

3M™ Cubitron™ II Cut-Off Wheel – T27 Quick Change

Diameter x Thickness x Arbor Hole (inches)	UPC	Max RPM	Quantity (Inner/Case)
4 1/2 x .045 x 5/8-11	051115-66530-1	13,300	25/50
4 1/2 x .09 x 5/8-11	051115-66532-5	13,300	25/50
4 1/2 x .125 x 5/8-11	051115-66534-9	13,300	25/50
6 x .045 x 5/8-11	051115-66540-0	10,200	25/50
7 x .09 x 5/8-11	051115-66542-4	8,500	25/50





3M™ Cubitron™ II Fibre Discs

Grinding reinvented

Cubitron II fibre discs are engineered to cut faster, cooler and with less grinding pressure than conventional abrasives. Plus they last up to 5 times longer for increased productivity!

Choose Cubitron II fibre discs 987C for cool cutting on stainless steel, high nickel alloys, superalloys and carbon steel. For dedicated carbon steel applications, try our Cubitron II fibre discs 982C.

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

Diameter (inches)	Grade	UPC (051141-)	Max RPM	Min/Case
4 1/2 x 7/8	36+	27400-3	13,300	25/100
	60+	27631-1	13,300	25/100
	80+	27635-9	13,300	25/100
4 1/2 x TN*	36+	27425-6	13,300	25/100
	60+	27639-7	13,300	25/100
	80+	27642-7	13,300	25/100
5 x 7/8	36+	27401-0	12,000	25/100
	60+	27632-8	12,000	25/100
	80+	27636-6	12,000	25/100
5 x TN*	36+	27404-1	12,000	25/100
	60+	27640-3	12,000	25/100
	80+	27643-4	12,000	25/100
5 x GL*	36+	27406-5	12,000	25/100
	80+	27402-7	8,600	25/100
7 x 7/8	36+	27633-5	8,600	25/100
	60+	27637-3	8,600	25/100
	80+	27405-8	8,600	25/100
7 x TN*	36+	27641-0	8,600	25/100
	60+	27644-1	8,600	25/100
	80+	27407-2	8,600	25/100
7 x GL*	36+	27403-4	6,600	25/100
	60+	27634-2	6,600	25/100
	80+	27638-0	6,600	25/100

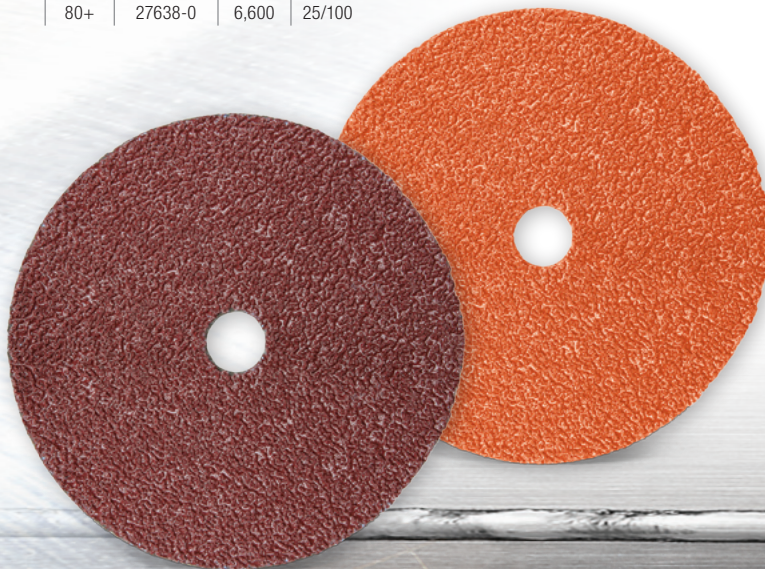
3M™ Cubitron™ II Fibre Disc 987C For stainless steel & other heat-sensitive alloys

Diameter (inches)	Grade	UPC (051141-)	Max RPM	Min/Case
4 1/2 x 7/8	36+	27447-8	13,300	25/100
	60+	27653-3	13,300	25/100
	80+	27657-1	13,300	25/100
4 1/2 x TN*	36+	27469-0	13,300	25/100
	60+	27653-3	13,300	25/100
	80+	27664-9	13,300	25/100
5 x 7/8	36+	27448-5	12,000	25/100
	60+	27654-0	12,000	25/100
	80+	27658-8	12,000	25/100
5 x TN*	36+	27467-6	12,000	25/100
	60+	27662-5	12,000	25/100
	80+	27665-6	12,000	25/100
7 x 7/8	36+	27449-2	8,600	25/100
	60+	27655-7	8,600	25/100
	80+	27659-5	8,600	25/100
7 x TN*	36+	27468-3	8,600	25/100
	60+	27663-2	8,600	25/100
	80+	27666-3	8,600	25/100
9 1/8 x 7/8	36+	27450-8	6,600	25/100
	60+	27656-4	6,600	25/100
	80+	27660-1	6,600	25/100

Tech Tip

Use 3M™ Disc Pad Face Plates – Red Ribbed to optimize product life of Cubitron II Fibre Discs – grades 36+.

*Quick Change Attachments. Other sizes available upon request.



3M™ Cubitron™ II Flap Discs



The new benchmark of power & performance

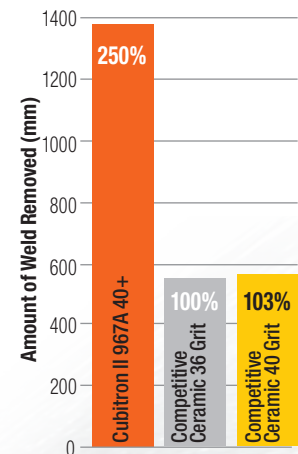
Cubitron II flap discs let you breeze through a wide range of tough jobs around the shop, including grinding, weld removal, deburring and more. They are designed to cut with less pressure for greater operator comfort, and include a grinding aid to help keep the disc cool on heat-sensitive metals. And, because they are made with 3M precision-shaped grain, they keep on cutting – long after other flap discs have called it quits!

3M™ Cubitron™ II Flap Discs 967A (All discs have Y-weight poly-cotton backing.)

TYPE 27					TYPE 29				
UPC	Grade	Diameter x Center Hole (inches)	Max RPM (MOS)	Qty/Case	UPC	Grade	Diameter x Center Hole (inches)	Max RPM (MOS)	Qty/Case
051141-55602-4	40+	4 1/2 x 5/8-11	13,300	10	051141-55614-7	40+	4 x 3/8-24	15,000	10
051141-55603-1	60+		13,300	10	051141-55615-4	60+		15,000	10
051141-55604-8	80+		13,300	10	051141-55616-1	80+		15,000	10
051141-55632-1	40+	4 1/2 x 5/8-11 GIANT	13,300	10	051141-55617-8	40+	4 x 5/8	15,000	10
051141-55633-8	60+		13,300	10	051141-55618-5	60+		15,000	10
051141-55634-5	80+		13,300	10	051141-55619-2	80+		15,000	10
051141-55605-5	40+	4 1/2 x 7/8	13,300	10	051141-55620-8	40+	4 1/2 x 5/8-11	13,300	10
051141-55606-2	60+		13,300	10	051141-55621-5	60+		13,300	10
051141-55607-9	80+		13,300	10	051141-55622-2	80+		13,300	10
051141-55635-2	40+	4 1/2 x 7/8 GIANT	13,300	10	051141-55644-4	40+	4 1/2 x 5/8-11 GIANT	13,300	10
051141-55636-9	60+		13,300	10	051141-55645-1	60+		13,300	10
051141-55637-6	80+		13,300	10	051141-55646-8	80+		13,300	10
051125-86715-3	40+	5 x 7/8	12,000	10	051141-55623-9	40+	4 1/2 x 7/8	13,300	10
051125-86718-4	60+		12,000	10	051141-55624-6	60+		13,300	10
051125-86719-1	80+		12,000	10	051141-55625-3	80+		13,300	10
051141-55608-6	40+	7 x 5/8-11	8,600	5	051141-55647-5	40+	4 1/2 x 7/8 GIANT	13,300	10
051141-55609-3	60+		8,600	5	051141-55648-2	60+		13,300	10
051141-55610-9	80+		8,600	5	051141-55649-9	80+		13,300	10
051141-55638-3	40+	7 x 5/8-11 GIANT	8,600	5	051125-86716-0	40+	5 x 7/8	12,000	10
051141-55639-0	60+		8,600	5	051125-86717-7	60+		12,000	10
051141-55640-6	80+		8,600	5	051125-86720-7	80+		12,000	10
051141-55611-6	40+	7 x 7/8	8,600	5	051141-55626-0	40+	7 x 5/8-11	8,600	5
051141-55612-3	60+		8,600	5	051141-55627-7	60+		8,600	5
051141-55613-0	80+		8,600	5	051141-55628-4	80+		8,600	5
051141-55641-3	40+	7 x 7/8 GIANT	8,600	5	051141-55650-5	40+	7 x 5/8-11 GIANT	8,600	5
051141-55642-0	60+		8,600	5	051141-55651-2	60+		8,600	5
051141-55643-7	80+		8,600	5	051141-55652-9	80+		8,600	5
					051141-55629-1	40+	7 x 7/8	8,600	5
					051141-55630-7	60+		8,600	5
					051141-55631-4	80+		8,600	5
					051141-55653-6	40+	7 x 7/8 GIANT	8,600	5
					051141-55654-3	60+		8,600	5
					051141-55655-0	80+		8,600	5

Cubitron II 967A Cuts Faster!

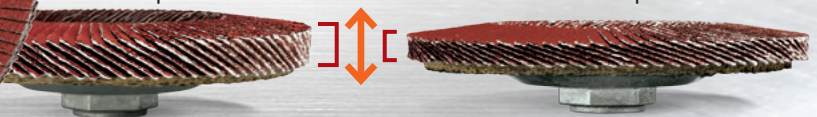
15 Minute Grind Test



More Material. Longer Life.

Giant Flap Disc

Standard Flap Disc





Scotch-Brite™

Quality finishes. Made easy.

For over 50 years, metalworking professionals have trusted Scotch-Brite™ Abrasives for a wide range of cleaning, deburring and finishing applications on all types of metals. Scotch-Brite products feature an open-web construction that resists loading, which generates less heat and helps extend the life of your abrasives.

Plus, this cooler cut helps reduce the risk of part discoloration and warping. Best of all, because of their fast, consistent and forgiving abrasive action, Scotch-Brite products help you improve surfaces without significantly changing the shape or dimension of the workpiece.

Choose the Right Disc for the Job

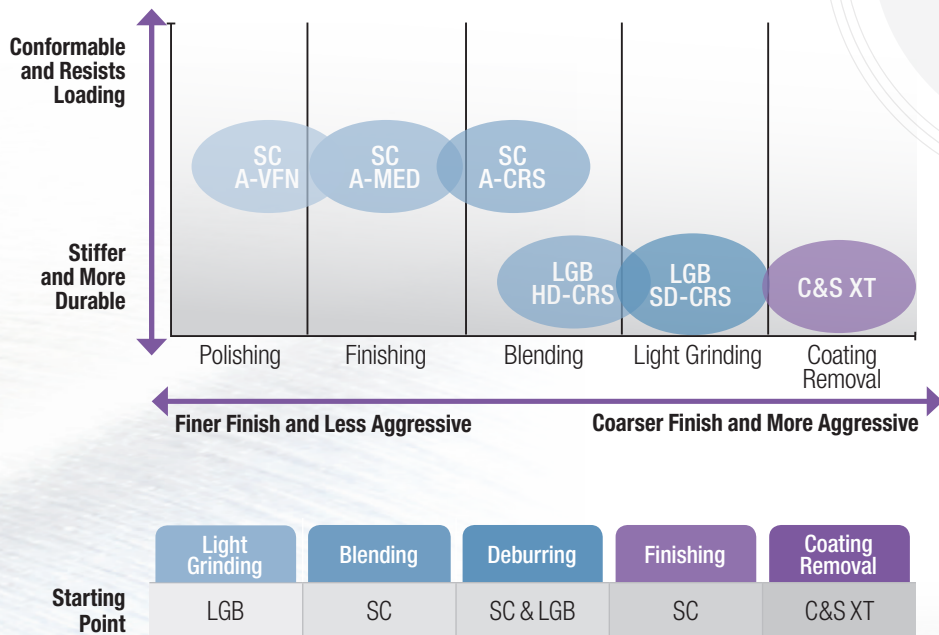
Use this table as a guideline to choose the disc construction optimized for your application.

C&S XT: Clean and Strip XT Discs

LGB: Light Grinding and Blending Discs

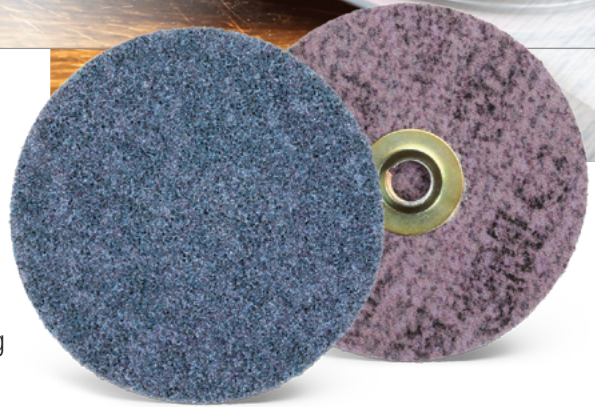
SC: Surface Conditioning Discs

Scotch-Brite™ Disc Performance Comparison



Starting Point

Scotch-Brite™ Light Grinding & Blending Discs



Fast, tough and in control

A durable disc constructed with 3M ceramic aluminum oxide blend abrasive grain, for an aggressive cut, long life and consistent finish. Resistant to edge wear. Ideal for light grinding applications to produce a burr-free and paintable finish.

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

Diameter × Center Hole (inches)	UPC (048011-)	Grade	Max RPM	Qty/Case
4 1/2 × 5/8-11*	60349-0	A CRS SD	13,000	50
	60348-3	A CRS HD	13,000	50
5 × 5/8-11*	60351-3	A CRS SD	12,000	50
	60350-6	A CRS HD	12,000	50
7 × 5/8-11*	60353-7	A CRS SD	8,600	25
	60352-0	A CRS HD	8,600	25

*Quick Change Tinneman Nut Attachment

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

Diameter × Center Hole (inches)	UPC (048011-)	Grade	Max RPM	Qty/Case
4 1/2 × 7/8	60333-9†	A CRS SD	10,000	50
	60332-2†	A CRS HD	10,000	50
5 × 7/8	60341-4	A CRS SD	10,000	50
	60336-0	A CRS HD	10,000	50
7 × 7/8	60344-5	A CRS SD	6,000	25
	60347-6	A CRS HD	6,000	25

†Made-to-Order

SD = Super Duty
HD = Heavy Duty

Tech Tip

Weld Removal & Prep for Paint

Step 1: Remove the weld with 3M™ Cubitron™ II Fibre Disc 982C grade 36+

Step 2: Finish with Scotch-Brite LGB SD Disc

Ready for paint (>3 mil)

For best results, use with red (extra hard) or black (hard) 3M™ Disc Face Plates.

Scotch-Brite™ Clean & Strip XT Discs



The name says it all

Tough Clean & Strip XT discs cut fast and resist loading without damaging the metal underneath. Ideal for removing rust, paint and other coatings. Use with TN Quick Change backup pad or fibre disc hub and face plate.

Scotch-Brite™ Clean & Strip XT Disc – TN Quick Change

Diameter × Thickness × Arbor Hole (inches)	UPC (048011-)	Grade	Max RPM	Qty/Case
4 1/2 × 1/2 × 5/8-11*	33194-2	SXCS	13,300	10
7 × 1/2 × 5/8-11*	33196-6	SXCS	8,600	5

*Quick Change Tinneman Nut Attachment



Scotch-Brite™ Surface Conditioning Discs (SC)

Save time & steps

The ideal choice for general purpose surface conditioning, including finishing, cleaning and light deburring. Helps you achieve a consistent, paintable finish in fewer steps without damaging the base material. Durable open-web construction is designed to resist loading and greatly increase the life of the disc – so you don't have to change discs as often. Attaches and removes easily to 3M™ Hook-and-Loop Backup Pads.

Scotch-Brite™ Surface Conditioning Disc (SC)

Diameter (inches)	UPC (048011-)	Grade	Color	Max RPM	Qty/Case
4 1/2	14101-5	A CRS	Brown	13,000	50
	14100-8	A MED	Maroon	13,000	50
	14099-5	A VFN	Blue	13,000	50
5	00750-2	A CRS	Brown	10,000	25
	00643-7	A MED	Maroon	10,000	25
	04303-6	A VFN	Blue	10,000	25
7	00751-9	A CRS	Brown	6,000	25
	00645-1	A MED	Maroon	10,000	25
	04305-0	A VFN	Blue	10,000	25



3M™ Pneumatic Power Tools for Right-Angle Disc Systems



Optimized for use with 3M™ Cubitron™ II Abrasives (4 1/2–5" diameter)

More power – more parts per hour

Our 3M™ Pneumatic Power Tools for Right-Angle Disc Systems are at the top of their weight class for horsepower, durability and ease of use.

Lightweight but rugged, these 1.5 hp power tools are designed with a high power-to-weight ratio to help operators get more work done in less time – and with less strain on the operator.

	3M™ Grinder 28824	3M™ Sander 28825	3M™ Cutoff Wheel Tool 28826
UPC (051141-)	28824-6	28825-3	28826-0
Tool Diameter inches (mm)	4 1/2–5 (115–125)		
Motor HP (W)	1 1/2 (1120)		
Max RPM	12,000		
Weight pounds (kg)	5.29 (2.4)	4.85 (2.2)	5.51 (2.5)
Length inches (mm)	11 (279)		
Height inches (mm)	4.13 (105)	4 (102)	4.38 (111)
Air Inlet Thread (inches)	1/2 FNPT		
Exhaust Direction	Side		



Accessories for 3M™ Right-Angle Systems

Less
Weight,
More
Muscle

Check out our
1.5 hp power tools
for right-angle disc
systems!
See p. 11 for details.



Product Name	UPC	Description	Max RPM	For Use With	Min/Case
3M™ Disc Pad Hub	051144-88743-9	2 1/2" dia., 5/8-11" Metal Insert	N/A	3M™ Disc Pad Face Plates (all sizes, tool shaft length 1/2" or less)	10
	051141-28443-9	4 1/2" dia., Red, Ribbed, Extra Hard	13,300	Fibre Discs	10
3M™ Disc Pad Face Plates	051141-14270-5	4 1/2" dia., Black, Smooth, Hard	13,300	Fibre Discs	10
	051144-81732-0	5" dia., Red, Ribbed, Extra Hard	12,000	Fibre Discs	10
	051144-81733-7	5" dia., Black, Ribbed, Hard	12,000	Fibre Discs	10
	051144-80514-3	7" dia., Red, Ribbed, Extra Hard	8,600	Fibre Discs	10
	051144-80515-0	7" dia., Black, Ribbed, Hard	8,600	Fibre Discs	10
	051111-51047-5	5/16" Depth; 5/8-11" Thread	N/A	3M™ Disc Pad Face Plates and Disc Pad Hubs	N/A
3M™ Disc Retainer Nuts	051144-05622-4	3/8" Depth; 5/8-11" Thread	N/A	3M™ Disc Pad Face Plates and Disc Pad Hubs	N/A
	051144-05621-7	1/2" Depth; 5/8-11" Thread	N/A	3M™ Disc Pad Face Plates and Disc Pad Hubs	N/A
	051144-05620-0	5/8" Depth; 5/8-11" Thread	N/A	3M™ Disc Pad Face Plates and Disc Pad Hubs	N/A
3M™ TN Quick Change Disc Backup Pad	051111-56573-5	4 1/2" dia., 5/8-11" INT	13,300	4 1/2" TN Discs	5
3M™ Hook-and-Loop Disc Pad Holders	051141-20245-7	7" dia., 3/8" Center Post; 5/8-11" INT	8,500	Scotch-Brite™ Light Grinding and Blending Disc Accessories	1
	048011-14111-4	4 1/2" dia., 3/8" Center Hole; 1/8" Thick., 5/8-11" INT, Firm	13,000	Scotch-Brite™ Surface Conditioning Discs	1
	048011-05680-7	5" dia., 3/8" Center Hole; 1/8" Thick., 5/8-11" INT, Firm	10,000	Scotch-Brite™ Surface Conditioning Discs	1
	048011-09450-2	7" dia., 3/8" Center Hole, 5/16" Thick., 5/8-11" INT, Med.	6,000	Scotch-Brite™ Surface Conditioning Discs	1

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Abrasive Systems Division
3M Center, Building 223-6S-03
St. Paul, MN 55144-1000

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Issued: 12/14 9976HB
61-5002-8389-2

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