3M Science. Applied to Life.™

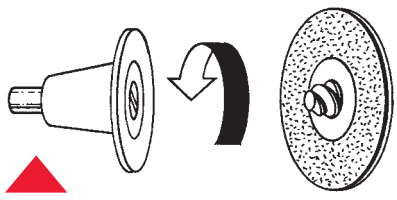
Twist-off, twist-on.

3M™ Roloc™ Quick Release System

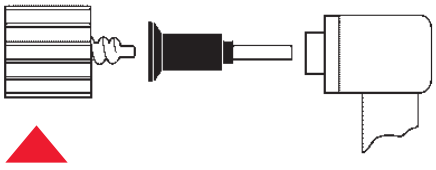
With the easy-to-use 3M™ Roloc™ Quick Release System, operators can select the 3M product most suited to the application. Changing products or grades is as simple as a quick twist-off, twist-on motion.

1. Fit the 3M™ Roloc™ Back-Up Pad or 3M™ Roloc™+ Plastic Holder on your die grinder or disc sander.

2. Twist-on your Roloc™ or Roloc™+ abrasive disc.



3M™ Roloc™ Quick Release System



3M™ Roloc™ + Quick Release System

3. Twist it back off when you need to change discs.

Quick-release versions of your favorite abrasives.

Roloc and Roloc+

3M™ Roloc™ Abrasive Discs are designed to be used on the face of the disc, while 3M™ Roloc™+ Abrasives are designed for use on workpiece edges and have a longer shaft for extra strength. Both series are available for a wide range of applications from finishing and cleaning to grinding and deburring.

Additional back-up pads, power tools, and system accessories are available for order. Contact 3M Abrasives at 1-866-279-1235 to learn more.

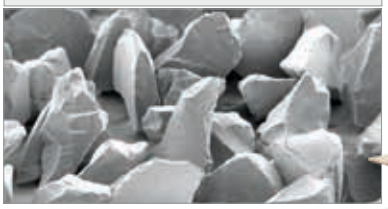
CUBITRON™ II

Conventional ceramic grain tends to "plow" through metal, building up heat in both the workpiece and your abrasive. This slows down your cuts and shortens disc lifespan.

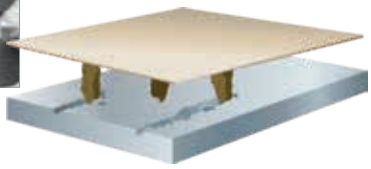
3M™ Precision-Shaped Ceramic Grain uses 3M microreplication technology to form sharp peaks that fracture continuously. This makes for a cooler, self-sharpening abrasive system that slices easily through metal – and works harder so you don't have to.

Cuts faster | **Works harder** | **Increases productivity**

Conventional ceramic grain
is irregular and "plows" through the metal.

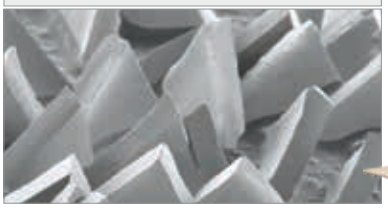


- ✕ Heat build-up
- ✕ Slower cutting
- ✕ Shorter life



VS

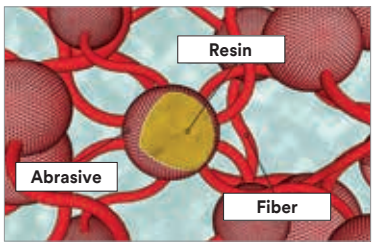
3M™ Precision-Shaped Ceramic Grain
slices cleaner and faster.



- ✓ Cooler operation
- ✓ Clean cut
- ✓ Lasts much longer

Scotch-Brite™

Widely known for their ease of use, these trusted abrasives feature a non-woven web that binds synthetic fibers and abrasive particles. This unique construction resists loading and helps improve surfaces without significantly changing the shape or dimension of the workpiece.



Find the Roloc version of your favorite 3M abrasives.

Grinding and stock removal

Premium Series

for unparalleled power and performance

3M™ Cubitron™ II Roloc™ Disc 984F

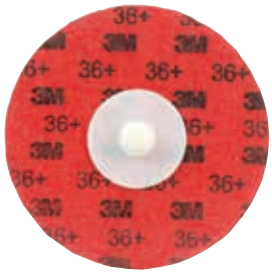
This long-lasting disc features a durable edge design, keeping edge wear to a minimum – so you can get through more parts per disc.

Feature:
3M™ Precision-Shaped Ceramic Grain, durable edge, grinding aid

Backing:
Y weight polyester cloth, 2-ply cloth, durable edge

Application:
Medium/high stock removal, medium/low pressure

Substrate:
Mild steel, stainless steel



Diameter (inches)	Grade	Button type	UPC
2"	36+	TR (plastic)	051141-27701-1
		TSM (metal)	051141-27705-9
	60+	TR (plastic)	051141-27709-7
		TSM (metal)	051141-27713-4
	80+	TR (plastic)	051141-27717-2
		TSM (metal)	051141-27721-9

3M™ Cubitron™ II Roloc™ Disc 947A

The partner disc to 984F, the 947A is designed for exceptional speed. Plus, it resists loading for longer disc life.

Feature:
3M™ Precision-Shaped Ceramic Grain blend, durable edge, grinding aid

Backing:
X weight poly-cotton cloth, 2-ply cloth, durable edge

Application:
Medium stock removal, medium pressure

Substrate:
Mild steel, stainless steel, aluminum

Diameter (inches)	Grade	Button type	UPC
2"	40+	TR (plastic)	051141-54240-9
		TSM (metal)	051141-54244-7
	60+	TR (plastic)	051141-54248-5
		TSM (metal)	051141-54252-2
	80+	TR (plastic)	051141-54256-0
		TSM (metal)	051141-54260-7
	120+	TR (plastic)	051141-54264-5
		TSM (metal)	051141-54268-3
3"	40+	TR (plastic)	051141-54241-6
		TSM (metal)	051141-54245-4
	60+	TR (plastic)	051141-54249-2
		TSM (metal)	051141-54253-9
	80+	TR (plastic)	051141-54257-7
		TSM (metal)	051141-54261-4
	120+	TR (plastic)	051141-54265-2
		TSM (metal)	051141-54269-0

3M™ Cubitron™ II Roloc™ Disc 982C

Powered by 3M™ Precision-Shaped Ceramic Grain, this durable disc provides a fast, aggressive cut – and lasts up to twice as long as conventional fibre discs.

Feature:
3M™ Precision-Shaped Ceramic Grain

Backing:
Rigid fibre backing

Application:
Heavy stock removal, heavy/medium pressure

Substrate:
Mild steel

Diameter (inches)	Grade	Button type	UPC
2"	36+	TR (plastic)	051115-66778-7
		TSM (metal)	051115-66781-7
	60+	TR (plastic)	051115-66783-1
		TSM (metal)	051115-66786-2
	80+	TR (plastic)	051115-66788-6
		TSM (metal)	051115-66791-6
3"	36+	TR (plastic)	051115-66779-4
		TSM (metal)	051115-66782-4
	60+	TR (plastic)	051115-66784-8
		TSM (metal)	051115-66787-9
	80+	TR (plastic)	051115-66789-3
		TSM (metal)	051115-66792-3
4"	36+	TR (plastic)	051115-66780-0
		TS (plastic)	051125-86755-9
	60+	TR (plastic)	051115-66785-5
		TS (plastic)	051125-86760-3
	80+	TR (plastic)	051115-66790-9
		TS (plastic)	051125-86761-0

Button types = **Roloc™ TR** (plastic button) **Roloc™ TSM** (metal button) **Roloc™ TS** (plastic button)

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

This powerful abrasive wheel features a one-two punch of fast-cutting 3M™ Precision-Shaped Ceramic Grain and the load-resistant, responsive open web of Scotch-Brite abrasives. It's conformable and soft to reduce defects, but highly durable for long life and fewer changeouts.

Feature:
3M™ Precision-Shaped Ceramic Grain, low density

Application:
Deburring and finishing

Substrate:
All metals

Diameter × thickness × center hole (inches)	Grade	Button type	UPC
2" × 1/4" × NH	2S FIN	TR (plastic)	076308-77231-4
2" ×1/4" × NH	4C MED+		076308-77115-7
2" × 1/8" × NH	6C MED+		048011-65081-4
2" × 1/4" × NH	6C MED+		048011-65082-1
2" × 1/4" × NH	8C CRS+		076308-77198-0
3" × 1/4" × NH	2S FIN	TR (plastic)	076308-77233-8
3" × 1/4" × NH	4C MED+		076308-77116-4
3" × 1/8" × NH	6C MED+		048011-65084-5
3" × 1/4" × NH	6C MED+		048011-65083-8
3" × 1/8" × NH	8C CRS+		076308-77197-3
3" × 1/4" × NH	8C CRS+		076308-77199-7

Scotch-Brite™ Roloc™ EXL Unitized Wheel (DP-UR)

Manufactured with compressed, non-woven fiber construction and uniform grain distribution, our EXL Unitized Wheel produces consistent, professional results.

Feature:
Varying density for application, used on edge or face without adjustment

Application:
Deburring and weld blending (finishing)

Substrate:
Metals, plastics, composites

Diameter × center hole (inches)	Grade	Button type	UPC
2"	2A MED	TR (plastic)	048011-17185-2
2"	2S FIN		048011-17183-8
2"	6A MED		048011-17190-6
2"	8A MED		048011-17192-0
3"	2A MED	TR (plastic)	048011-17186-9
3"	2S FIN		048011-17184-5
3"	6A MED		048011-17191-3
3"	8A MED		048011-17193-7

Button types = **Roloc™ TR** (plastic button) **Roloc™ TSM** (metal button) **Roloc™ TS** (plastic button)

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

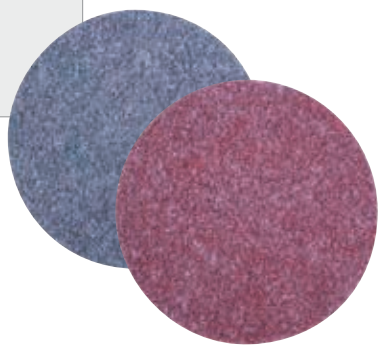
Designed for durability, this disc combines the aggressive cut of ceramic grain with heat-resistant Scotch-Brite material. It grinds and blends even hot welds in just a single step, to produce a paintable finish in less time.

Feature:
Ceramic and aluminum oxide blend, durable edge, heat-resistant product construction

Backing:
Reinforced scrim

Application:
Light grind and blend in a single step

Substrate:
All metals



Super duty

Heavy duty

Diameter × center hole (inches)	Grade	Button type	UPC
2"	A CRS SD	TR (plastic)	048011-60355-1
		TSM (metal)	048011-60375-9
	A CRS HD	TR (plastic)	048011-60354-4
		TSM (metal)	048011-60374-2
3"	A CRS SD	TR (plastic)	048011-60357-5
		TSM (metal)	048011-60377-3
	A CRS HD	TR (plastic)	048011-60356-8
		TSM (metal)	048011-60376-6

Scotch-Brite™ Roloc™ Anti-Loading Surface Conditioning Disc (AL-DR)

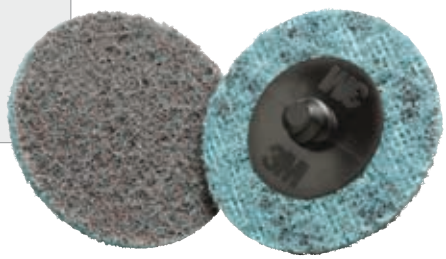
This disc conforms easily to surface irregularities and contours, delivering a sharp cut and fine finish on varied surfaces. Its non-woven nylon fibers continually break down to expose fresh mineral and resist disc loading.

Feature:
Aluminum oxide, loftier construction to resist loading, long life in low pressure

Backing:
Non-woven construction

Application:
Blending and finishing

Substrate:
Aluminum and softer metals



Diameter × center hole (inches)	Grade	Button type	UPC
2" × NH	A CRS	TR (plastic)	051141-54137-2
		TSM (metal)	051141-54143-3
		TS (plastic)	051141-54114-3
	A MED	TR (plastic)	051141-54136-5
		TSM (metal)	051141-54142-6
		TS (plastic)	051141-54115-0
	A VFN	TR (plastic)	051141-54135-8
		TSM (metal)	051141-54146-4
		TS (plastic)	051141-54116-7
3" × NH	A CRS	TR (plastic)	051141-54140-2
		TSM (metal)	051141-54145-7
		TS (plastic)	051141-54117-4
	A MED	TR (plastic)	051141-54139-6
		TSM (metal)	051141-54144-0
		TS (plastic)	051141-54118-1
	A VFN	TR (plastic)	051141-54138-9
		TS (plastic)	051141-54119-8
		TS (plastic)	051141-54150-1

Button types = **Roloc™ TR** (plastic button) **Roloc™ TSM** (metal button) **Roloc™ TS** (plastic button)

Scotch-Brite™ Roloc™ Bristle Disc (RD-ZB)

This fast-running disc combines superior cut, flexibility, efficiency and ease of use for a consistent quality finish, even on contours and complex parts – all without damaging the base material.


50 grade


80 grade


120 grade

Feature:
Ceramic and aluminum oxide blend, flexible bristles

Backing:
Molded, flexible bristles

Application:
Strip, deburr, blend, finish, polish, clean

Substrate:
All metals

Diameter (inches)	Grade	Button type	UPC
2"	50	TR (plastic)	048011-18730-3
	80		048011-18732-7
	120		048011-18733-4
3"	50	TR (plastic)	048011-18734-1
	80		048011-18736-5
	120		048011-18737-2

Scotch-Brite™ Roloc™ Clean & Strip XT Pro Discs

Designed with both a high speed rating and high conformability, these discs resist clogging for consistent cutting action. Made with silicon carbide, grade XT Pro is ideal for surface prep, and maintains the workpiece shape. The aluminum oxide mineral of grade XT Pro Extra Cut cuts to bare metal quickly, ideal for adhesion prep.

Scotch-Brite™ Roloc™ Clean & Strip XT Pro Disc (XO-DR)

Feature:
Durable, conformable, highly resistant to loading, low spark, silicon carbide

Backing:
Non-woven construction

Application:
Heavy contamination removal, rust, coatings, weld discoloration

Substrate:
All metals

Diameter × center hole (inches)	Grade	Button type	UPC
2" × NH	S XCS	TR (plastic)	638060-21538-8
3" × NH	S XCS	TR (plastic)	638060-21540-1
			638060-21541-8

Scotch-Brite™ Roloc™ Clean & Strip XT Pro Extra Cut Disc (XC-DR)

Feature:
Extended life, conformable, high speed rating, highly resistant to loading, quick cut to bare metal

Backing:
Non-woven construction

Application:
Rust removal, thick paint and coating removal, weld refinement, adhesion prep

Substrate:
All metals

Diameter × center hole (inches)	Grade	Button type	UPC
2" × NH	A XCS	TR (plastic)	638060-21543-2
3" × NH	A XCS	TR (plastic)	638060-21544-9
			638060-21545-6

Button types = **Roloc™ TR** (plastic button) **Roloc™ TSM** (metal button) **Roloc™ TS** (plastic button)

Safety information

3M™ Coated Abrasive Roloc™ and Scotch-Brite™ Roloc™ / Roloc™ + / Spindle Mount Products

Read this insert before mounting or using product. Follow tool's instructions, employer's safety rules, ANSI B7.1 re: Use, Care, and Protection of Abrasive Wheels, and any other local standards. Operator must be properly trained.

Planning and Preparation

Prepare a safe work area

Check workpiece materials
Use only on Carbon Steel, Stainless Steel, Cast Iron, or alloys of: Titanium, Copper, Zinc, Chromium/Nickel, or Aluminum to reduce the risk of disc breaking, fire, explosion, or health hazards.
Read the Safety Data Sheets (SDSs) for the workpiece materials.

Respiratory hazard
Exposure to dust generated from workpiece and/or abrasive materials can result in serious, permanent lung damage or other injury. To reduce this risk:
- Use dust capture or local exhaust as appropriate.
- Wear all recommended protective equipment.

Fire and explosion hazard
Grinding produces sparks and heat. Keep away from anything that can ignite or explode. Do not allow dust to accumulate. Do not use on flammable or explosive materials.

Do not alter or modify the disc in any way.

Do not allow bystanders
Keep bystanders out of the work area. Disc fragments can be thrown a long distance, and bystanders may also be exposed to respiratory, fire, and explosion hazards. If other people must be nearby, ensure that they wear proper personal protective equipment (PPE). Always wear proper PPE as identified by your risk assessment to help protect against dust, grinding sparks and debris, noise, and some disc fragments:


- full face shield


- impact resistant protective eyewear marked as ANSI Z87.1 conformant
- hearing protection
- NIOSH approved respirator


- gloves


- body and skin protection

⚠WARNING **Improper operation can cause serious injury or death to operators and bystanders. Sparks, heat, and dust generated while grinding can create fire, explosion, and respiratory hazards.**

Safe Operating Procedures

Tool selection:

1. Use only on tools designed for discs.
2. Compare the maximum operating speed (RPM) rating of the tool with the maximum RPM rating of the backup pad and disc. Make sure the machine speed does not exceed the maximum operating speed marked on the product or package (see example on this page). **Exceeding product's Max. RPM can cause it to break apart and cause serious injury.**

Mounting:

1. Inspect the backup pad and disc. Replace if damaged or worn out (e.g., cracks or chips). **Damaged or worn out backup pads or discs can break apart during use and cause serious injury.**
2. Follow tool manufacturer's mounting instructions. Always use proper backup pad with discs. Select a backup pad that is compatible with and the same size as, disc being used.
3. Never force disc onto tool spindle. Do not alter disc in any way.
4. Use correct attachment system. Ensure the backup pad shaft is fully seated to the tool per manufacturer recommendation.

Example


Roloc™ Backup Pad
Max. RPM = 20,000


Product
Max. RPM = 18,000

In this example, do not exceed 18,000 rpm

Operation:

1. Direct disc away from your body and bring it up to operating speed before grinding.
2. If vibration or wobbling occurs, stop immediately. Determine the cause and correct before continuing. Vibration or wobbling can be caused by:
   - Worn or damaged backup pad or disc
   - Stripped threads on mandrel
3. Follow good grinding practices:
   - Secure workpiece.
   - Keep all body parts and objects clear of grinding path.
   - Grind with product 5-10 degrees from workpiece.
   - Begin grinding by gradually engaging workpiece
   - Never bump or force disc so that tool motor slows or stalls.
   - Direct sparks away from face and body.
   - Product that disengages from the backup pad may cause injury. Abruptly stopping tool off work piece can cause the product to disengage from the backup pad. Do not abruptly stop the product off the workpiece.
   - Do not use discs with abnormally curled or cupped shape.

Storage:

Incorrect storage could affect safety as well as product performance. Protect disc when not in use. Never rest tool on disc. Store discs in dry environment below 150°F (65°C) and limit exposure to water and high humidity.

Abrasive Systems Division

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