

3M Science.
Applied to Life.™

3M Metalworking Solutions

3M Industrial Abrasives Product Catalogue

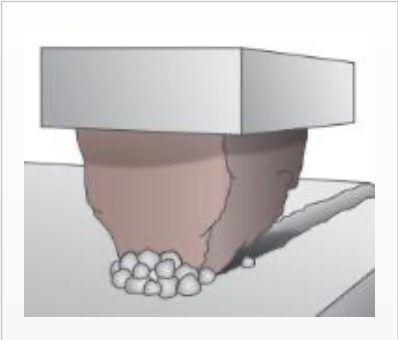


3M Mineral Introduction

Transforming work for 40 years with pioneering abrasive grain technology



Worlds first crushed ceramic grain delivered exceptional performance upside vs. conventional AZ grain



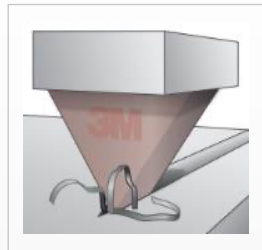
Cubitron™
Performance Abrasives

F
A
B

Precision-Shaped Triangular Grain
Faster cut, longer life, cooler cut
Maximizing productivity, worker safety and sustainability

Cubitron™ 2

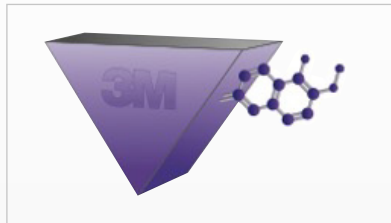
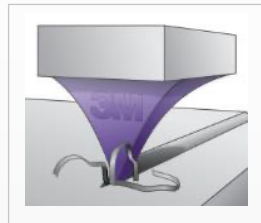
The world's first precision-shaped triangular grain ceramic abrasives.



Re-branded and ready to continue transforming customer processes with outstanding performance and value.

Cubitron™ 3

Significantly raising the benchmark for cut rate and product life in heavy grinding and cutting applications.



We've re-engineered precision-shaped ceramic triangular grain using proprietary breakthroughs in grain shape and molecular bonding technology.

Why 3M

Business Benefits of 3M Abrasive Solutions



Work better.

Utilise abrasives that deliver the highest material removal, a finer finish, and excellence in every cut



Work faster.

Use versatile tools that ensure lesser changeout and dust while cutting up to 2x faster for faster production



Work longer.

Get tools that wear evenly and last up to 4x longer than conventional abrasives, which translate to lower production costs



Work smarter.

Leverage tools that are built upon 100 years of technology and are constantly evolving to meet tomorrow's metalworking needs

Safer Abrasive Solutions



Choosing the right abrasive

Selecting the most appropriate abrasive product can have a positive impact on safety in the workplace, mitigating risk against hand-arm vibration, airborne particles and noise hazards.



Hand-arm vibration



Airborne particles

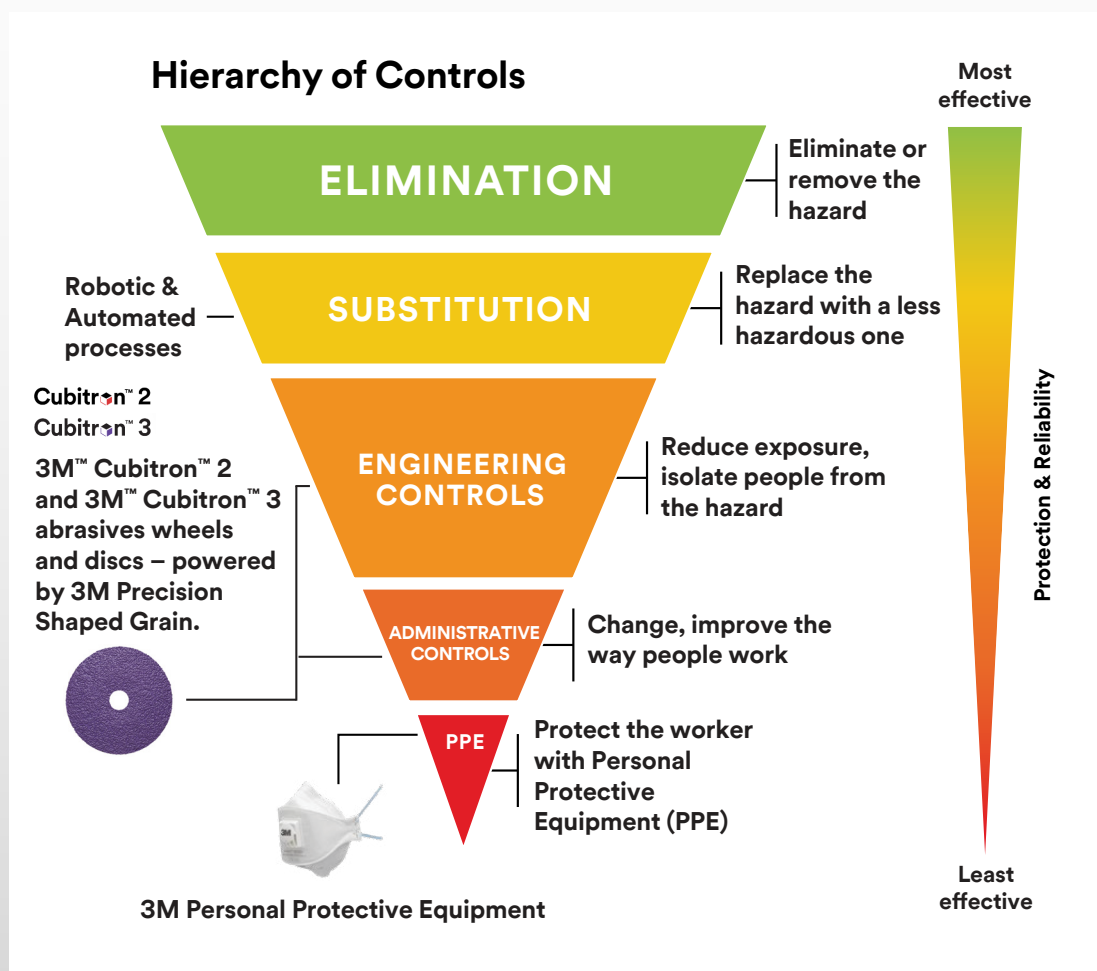


Noise



Injury

Take control of abrasive hazards



Best practice in health and safety management begins with a thorough risk assessment to identify equipment and activities that can potentially cause harm. It's important to understand the level of risk people may be exposed to.

Apply each level of the hierarchy of controls to help remove, reduce and manage workplace hazards.

Start with the elimination phase as this is the most effective control, and finish with the PPE stage, which is considered the last line of defence.



Scan the QR code or click here to download the Abrasive Safety Assessment Guide

3M Abrasives for Metalworking

3M industrial abrasives are built to cleanly cut any metalworking job, withstand grinding on the toughest metal substrates, deliver fine finishes--and get you through all the stages in between.

Abrasive Solutions for all stages of Metalworking



Cutting

Cutting

Abrasives for cleaner, faster cuts

[View Solutions >](#)



Grinding

Grinding

Abrasives for precise metalworking

[View Solutions >](#)



Cleaning

Finishing

Abrasives for consistent, refined finishes

[View Solutions >](#)



Finishing

Cutting Work

Cutting

Grinding




Finishing



When it comes to cutting metal, speed is efficiency.

3M designs innovative abrasive solutions for pipe notching or cutting on a wide range of metal parts and materials. Each product helps make cutting fast and precise, to ensure that your project is a cut above the rest.

Featured Products

Product		Diameter x Thickness x Hole (mm)	Features
3M™ Silver Cut-Off Wheel		4 x .045 x 5/8" 5 x .045 x 7/8" 7 x .045 x 7/8"	New innovative, cut off wheel designed to be affordable for everyday use. Cut cool, deliver fast, smooth cutting action on all types of ferrous metals, stainless steels and alloy steels. Helps to improve shop productivity and control costs.
3M™ Green Corps™ Cut-Off Wheel		107 x 1.2 x 16	Designed for high durability, delivering 2x performance, no burnt marks, and a smooth, straight cut, optimum for Stainless Steel.
3M™ Cubitron™ 3 Cut-Off Wheel		105 x 1.0 x 15.88 75 x 1.0 x 6.35	Designed to provide high cut rates and long life to help reduce cost.

Transform your metalworking processes with 3M™ Cubitron™ 3 Cut-Off Wheels



More total material removed



Less operator fatigue



Cool Cutting




Faster cut rate



Less vibration exposure



Sustainability at core



Performance tip
Use 3M™ Cubitron™ 3 Cut-Off Wheel for cutting metal, including sheet metal, stainless metal, and more in metal fabrication, machinery manufacturing, and shipyard industries. Attach the cut-off wheel to grinders (sold separately) and always use a wheel guard for safety.

Request a sample ►

Grinding & Blending

Cutting

Grinding

Finishing



For large metal parts or removing welds.

3M has advanced grinding products for all stages of the process for enhanced productivity and reduced downtime. This includes weld grinding, beveling, gate removal, and cylindrical grinding.

Ideal for: · Heavy-duty grinding · Light grinding · Blending

Featured Products

Product		Size (IN)	Grit	Features
3M™ Cubitron™ 3 Fibre Disc 1182C, 36+		4 x 5/8" 5 x 7/8" 7 x 7/8"	36+	Delivers up to 60% faster sustained cut rate and more total material removal than 3M™ Cubitron 2 Fibre Disc 982C, and offers up to 88% less vibration exposure compared to high-quality grinding wheels.
3M™ Cubitron™ 2 Flexible Grinding Wheels — T27		4 x 1/8 x 5/8" 5 x 1/8 x 7/8" 7 x 1/8 x 7/8"	36+, 60+	Ideal for grinding, blending, beveling and deburring. More parts per hour — with fewer wheel changes and less pressure on the workpiece.
3M™ Cubitron™ 3 Fibre Disc 1187C, 36+		4" 5" 7"	36+	For stainless steel grinding
3M™ Cubitron™ 2 Fibre Disc 981CP PSG		4 x 5/8" 5 x 7/8" 7 x 7/8"	36+	Helps for cool cutting with no burning marks to components with a longer life. Reduces change-outs and downtime in robotic and pressure-assisted applications.
3M™ Silver Depressed Center Grinding Wheel — T27		4 x 1/4 x 5/8" 5 x 1/4 x 7/8" 7 x 1/4 x 7/8"	—	New class of grinding wheels; unbeatable combination of performance and value. Ideal choice for applications like weld removal, beveling, edge chamfering and more.
3M™ Flap Discs 769F		4 x 5/8" 4-1/2 x 7/8" 5 x 7/8"	40+, 60+, 80+, 120+	Your “go-to” disc for just about anything, from weld grinding and scale removal to beveling and heavy deburring.



Performance tip

In many cases, 3M™ Flap Disc 769F will allow you to grind and finish in one step, without changing abrasives. This is because, under normal conditions, 769F will generate a finish that is one grade finer than a fiber disc of the same grade.





Request a sample ►

Finishing & Cleaning

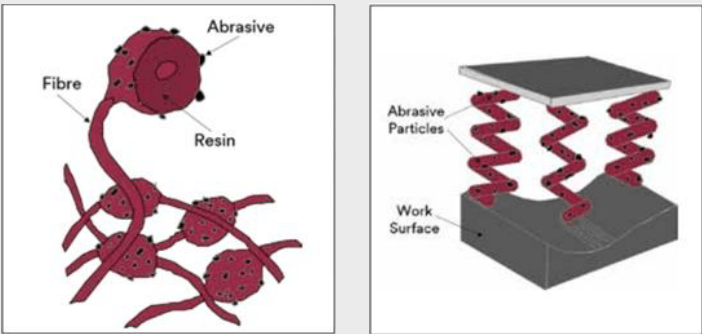


Finish metal parts accurately without changing its shape.

3M offers a wide range of polishing solutions that ensures consistent and refined performance, whether you're looking to achieve a mirror-like finish or a precise one.


Featured Products				
Product		Size (IN)	Grade	Features
3M™ Scotch-Brite™ Hand Pads 7447 PRO		6" x 9"	A VFN	Ideal for cleaning parts, deburring, hand blending and scuffing prior to painting.
3M™ Scotch-Brite™ Deburr & Finish PRO Unitized Wheel		4-1/2"	FIN	Uniquely engineered to excel in all three areas: deburring, finishing and blending.
3M™ Scotch-Brite™ Clean and Strip XT Pro		4 x 5/8"	XT Pro, Extra Cut	Paint removal, Scale removal, Corrosion removal, Weld burn removal, Cleaning, Weld polishing, Surface prep
3M™ Scotch-Brite™ Precision Surface Conditioning Discs		2", 3" 4" x NH 4" x 5/8" 4-1/2" x 7/8" 5" x 7/8" 7" x 7/8"	XCRS, CRS, MED, FIN, VFN	Suitable for low-pressure applications on aluminium and soft metals, carbon steel, stainless steel and more.

Scotch-Brite™ non-woven nylon fibre technology



Scotch-Brite™ non-woven web binds synthetic nylon fibres and abrasive particles, creating a 3D material with a spring-like action that conforms to contours and edges. It's free of metal residues and resists chemicals for a longer life while providing ventilation to avoid burning, warping, discolouring and clogging.

The result? A smooth finish to various surface types without altering the metal's geometry.



Performance tip

The Scotch-Brite™ Clean and Strip XT Pro Disc conforms to weld bead ripples to polish welds without removing them, and works in hard-to-reach areas without damaging the substrate.

Request a sample ►

Abrasives Automation and Robotics

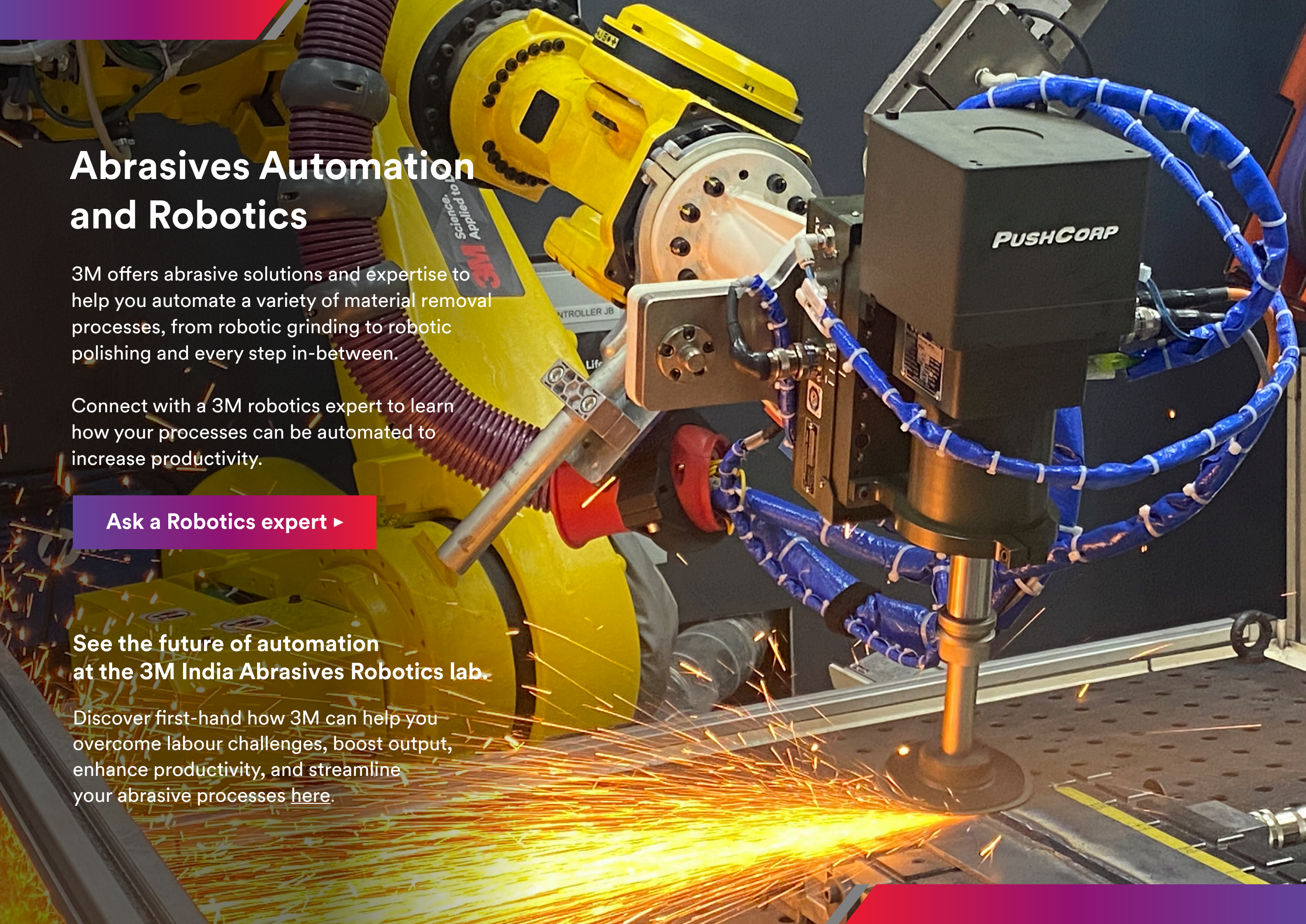
3M offers abrasive solutions and expertise to help you automate a variety of material removal processes, from robotic grinding to robotic polishing and every step in-between.

Connect with a 3M robotics expert to learn how your processes can be automated to increase productivity.

[Ask a Robotics expert ►](#)

See the future of automation at the 3M India Abrasives Robotics lab.

Discover first-hand how 3M can help you overcome labour challenges, boost output, enhance productivity, and streamline your abrasive processes [here](#).



Request a sample

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

Sign up for a free sample to experience the cutting-edge advantage of 3M industrial abrasives, built to withstand grinding on the toughest metal substrates, deliver fine finishes, and get you through all the stages in between.

Request a sample ►



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Metalworking Homepage
www.3mindia.in/3M/en_IN/metalworking-in

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