

Surface modification at its finest.

Specialized applications like gear grinding, tool grinding and cylindrical grinding demand precision and process stability. Achieving the highest precision requires the highest-quality abrasives. As a total solution supplier, 3M offers conventional and superabrasive wheels, microfinishing films, dressing equipment and tools you need for any precision grinding or microfinishing application. Plus, we have the foremost technical and sales expertise to develop custom solutions for you.

A partner you can trust.

For more than 100 years, 3M has been a world leader in developing advanced abrasives. Our technologies have helped customers in virtually every industrial sector improve productivity, cut costs and achieve the consistent high-quality finishes they need to compete in a global marketplace.

Conventional Abrasives

Durability and precision are crucial in the gear, turbine and powertrain industries. For many in these industries, conventional 3M™ Cubitron™ II bonded abrasives with ceramic 3M Precision-Shaped Grain can serve as a precise and cost-effective solution.



Superabrasives

If you're grinding and finishing exceptionally hard substrates like tungsten carbide, ceramics or superalloys, it's time to spec-in a superabrasive solution. Our CBN and diamond superabrasives are customizable in a range of forms and grades to meet your specific application needs.

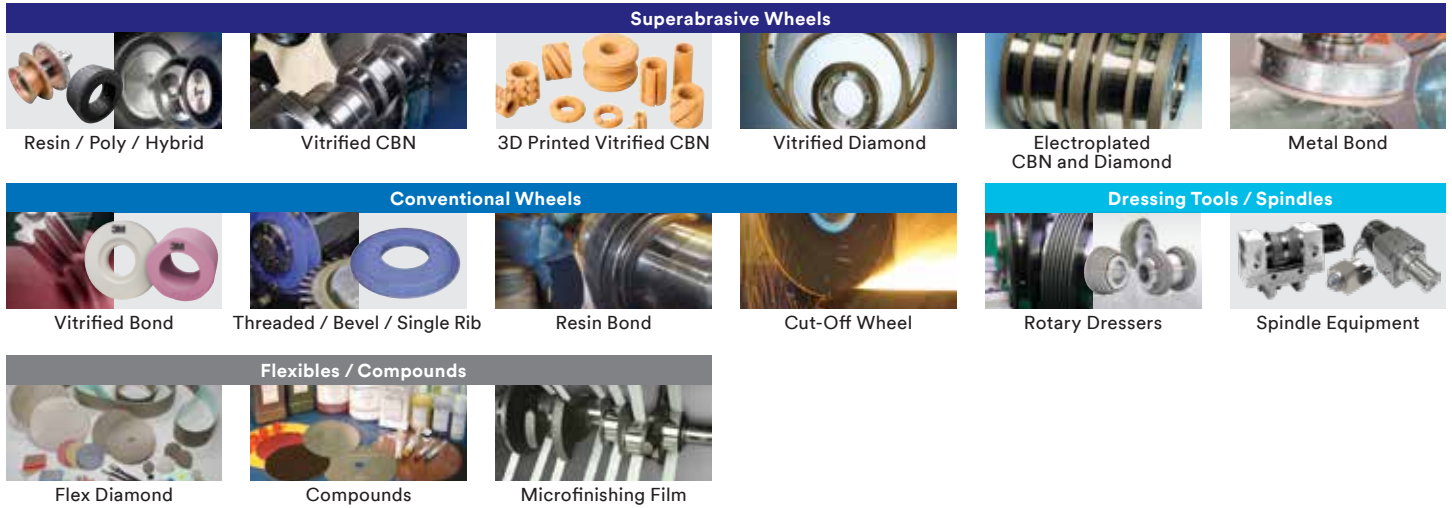


Dressing Tools and Spindles

As a total solution supplier, 3M offers diamond dressing rollers and dressing spindles designed for both conventional and superabrasives — core elements for building a complete high-performance grinding system.



3M Precision Grinding and Finishing Solutions



Key

- Extensive Product Offering
- ◐ Focused Product Offering
- Contact 3M Bonded Specialist

			Technologies																
Sector	Application	Sub-Application	Superabrasive Wheels						Conventional Wheels				Dressing Tools / Spindles			Flexibles / Compounds			
			Resin / Poly / Hybrid	Vitrified CBN	3D Printed Vitrified CBN	Vitrified Diamond	Electroplated CBN and Diamond	Metal Bond	Vitrified Bond	Resin Bond (Hot Press)	Resin Bond (Cold Press)	Large Diameter Cut-Off Wheels (650–2000mm)	Medium Diameter Cut-Off Wheels (200–650mm)	Rotary Dressers	Spindle Equipment	Flex Diamond	Compounds	Microfinishing Film	
Transportation	Gear	Bevel												●	●				
		Threaded												◐	●				
		Profile													●				
	Power Train	Face / Fine Surface	●	●					●						●				
		OD / Cam & Crank		●					●		●				●	◐			●
		ID		●	●				●						●				
	Centerless		●					●		●				●					
General Industries	Bearing	Face / Fine Surface	●	●					●						●				
		OD		●					●						●			●	
		ID		●	●				●						●				
	Turbine	Centerless		●					●		●				●				
		Reciprocating	●	●					●						●	●			
	Tool Grinding	Creep-Feed						◐	●						●	●			
		Indexable Inserts	●				●		●		●								
Saw / Dies*	Round Tool	●	●			●	●	●		●				○					
	Flat / End	◐	◐			◐		◐		◐				◐					
Primary Metals	Roll Grinding / Superfinishing		◐	◐		◐			●		●					●	◐	●	
	Slab and Plate Conditioning									●									
	MCOw 200–650mm**																		
	LCOW 650–2000mm**												●						
Oil / Gas	PCD Cutters / Drilling Bits	Centerless / Chamfering	●			●													
		Face Polishing	●			●													
	Thermal Spray	OD / ID / Surface	●						◐							●	○	●	

*No silicon carbide grain

**Not offered with drive pin holes

Take advantage of performance and productivity that will set your shop up for success.
3M.com/us/precisiongrinding



Abrasive Systems Division
 3M Center, Building 233-6N-02
 St. Paul, MN 55144-1000
 1-866-279-1235
3M.com/abrasives

Warranty and Limited Remedy: 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS, INCLUDING ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. **Limitation of Liability:** Except for the limited remedy above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential, regardless of the legal or equitable theory asserted.

3M and Cubitron are trademarks of 3M Company. Please recycle. Printed in USA. © 3M 2022. All rights reserved. 61-5002-8338-9 Rev 7/22

Click / Scan to view

