



3M™ Dressing Spindles and Services

Improve your dresser life and performance.

1 Optimize Performance

3M Dressing Spindle Repair Services

Our expertise in dressing systems also extends to the repairs and rebuild of all makes and models of dressing equipment. For over 30 years, our repair services have provided high precision, increased diamond roll life and improved part quality to our customers. Spindle rebuilds are an economic alternative to replacing existing, aging, or unused dressing equipment.

Common Repair Services

- ▶ Complete mechanical rebuilds
- ▶ Component refurbishing
- ▶ Chrome and regrind services for arbors and shafts
- ▶ Motor replacement and rewind services
- ▶ Balancing and vibration analysis
- ▶ Refurbished size and run-out tolerances that meet or exceed OEM guidelines

2 Upgrade & Improve

3M High-Performance Dressing Spindle Systems

We know what it takes to keep your grinding system working with maximum consistency and efficiency. Your system relies on the dressing spindle to maintain the precision you need to perform at a high level. The 3M Dressing Spindle Systems portfolio gives you the opportunity to upgrade your system with a customized spindle to meet your specific performance needs. Upgrade to higher torque, convert to quick change collets, or retrofit existing machines.

3M™ Dressing Spindles and Service — Repair, Rebuild and Upgrade

Give your shop a competitive edge.

To help ensure the highest efficiency and economy during the grinding process, 3M Dressing Spindles System components are engineered for outstanding strength and stability, giving you an even and accurate grind every time. Because precision is crucial to the final product, 3M engineered components will help create the highest quality finish possible. Consult with our application engineer specialists to determine what the best solution is for your needs.



High Precision



Increased Life



Improved Quality

Compact & Versatile	Ultimate Stiffness	Quick Change	Solid Retainer
Inline Cantilever Spindles	Outboard Support Spindles	Quick Change Spindle Arbors	Infeed Dresser Systems
<p>Designed to meet the challenging needs of centerless, external cylindrical, internal cylindrical and gear grinding applications. Engineered to maximize both dynamic and static stiffness for unbeatable level of accuracy and quality of the finished product.</p> <ul style="list-style-type: none"> ▶ Perfect solution for dressing of metal, resin, or vitrified diamond ▶ Compact design 	<p>Robust dresser models designed to meet the demands of large centerless, cylindrical, surface and creep-feed grinding applications. Equipped to handle the high forces and inertial masses associated with wide or deep form plunge dressing.</p> <ul style="list-style-type: none"> ▶ General profile dressing with multiple diamond discs ▶ Configurable to meet your needs 	<p>Designed to address larger grinding applications with frequent change over or high part mix. These dressers feature a retractable spindle assembly allowing efficient arbor removal.</p> <ul style="list-style-type: none"> ▶ Accuracy and repeatability across multiple arbors ▶ Rapid arbor removal 	<p>Designed for larger, heavy duty grinding applications that require attention to stiffness for accuracy. Strength and stability help ensure that grinding surfaces are accurate and effective in producing a flawless finished product.</p> <ul style="list-style-type: none"> ▶ Hardened tool steel rectangular ram for exceptional wear and stiffness ▶ Centrally mounted ball screw to prevent skew and yaw effects
Dressing Equipment Portfolio			
Cantilever Dresser Spindles	Outboard Support Dresser Spindles	QCS Outboard Support Dresser Spindles	Infeed Dresser Systems
MK2 – Compact Dressing Spindles	Removeable Tail Spindles	Quick Change Spindles	Single Axis Plunge Dressers
MK3 – Versatile Dressing Spindles	Removeable Cartridge Spindles	Quick Change Removeable Arbors	2-Axis Profile Form Dressers
MK4 – Power, Purpose & Precision	Direct Drive Cartridge Spindles		Multi-Axis Dresser Systems
MK5 – Power, Purpose & Precision			

These base models can be customized to meet your needs.

For more information, contact your 3M Customer Service Representative.



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