

**CHATTER?
VIBRATION?
INACCURACY?
CRASH?**

**Turn to PDS for
Expert Spindle Repair.**

BE THE #SHOPFLOORHERO



DEPENDABLE SPINDLE REPAIR

Repair • Rebuild • Retrofit • Replace

EXTEND YOUR PRODUCTION TEAM WITH VALUABLE RESOURCES

Managing a facility is tough - Deadlines loom, equipment must perform, production must flow freely, and all accomplished within a fixed budget. You don't need hassles, but sometimes constant problem-solving can take its toll.

We at PDS are here to help you meet and exceed your goals with hassle-free answers to production challenges. With factory-trained technicians and engineers on staff, a responsive customer support team, and 40,000 spindles repaired since 1996, we can help drive uptime.

Be the Shop Floor Hero by ensuring optimal production and throughput with our dependable team.

Overview of single-source solutions.

Spindle Repair Services and Troubleshooting

Replacing the faulty elements causing a problem

Spindle Rebuild Services

Remanufacturing your spindle to run and perform like new

Spindle Retrofit Services

Upgrading components and technologies to maximize reliability, power, torque, and speed

Spindle Replacements

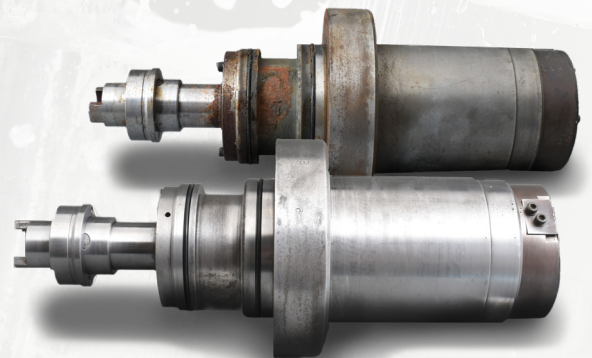
Providing new spindle of matching specifications or one with more capabilities

The PDS difference.

- ★ Expert vibration analysis – on-site or in-house
- ★ Agility to respond quickly with quicker turn-around time than competitors
- ★ Trustworthy with industry-leading 12 and 24 month global warranties
- ★ Efficient with \$2M of inventory for immediate delivery
- ★ Integrated In-house precision manufacturing provides the highest quality products and lower costs points—saving money and time

Signs that a spindle is failing.

- ★ Vibration felt within the machine
- ★ Chatter marks showing up on their parts/poor finish
- ★ Inability to properly dress the grinding wheel
- ★ Producing out of tolerance profile size, taper, roundness of the part



INSPECTION, EVALUATION, TESTING, AND REPAIR

Precision Drive Systems (PDS) delivers comprehensive repair and rebuild service solutions for any manufacturer's spindles, at typically half the cost of a new spindle replacement.

- ★ Complete spindle repair services, including Root Cause Failure Analysis, vibration analysis, spindle and bearing repair, spindle taper grinding, balancing, industry-leading engineering recommendations
- ★ In-house precision machine shop with the capabilities to hold tolerances to 1 micron. PDS can reverse-engineer critical components such as spindle shafts to OEM specs or better to minimize repair time
- ★ Vast inventory of remanufactured components
- ★ Proven, cost-effective upgrade and retrofit solutions to keep your operations moving

PDS provides US-based repair, service, engineering, and support where and when you need it.

Repair Capabilities for All Spindle Types and Brands

- ★ Motorized
- ★ Gear-driven
- ★ Belt-driven
- ★ Direct drive/in-line
- ★ Automatic tool change
- ★ Manual tool change
- ★ Custom tool connections
- ★ Multi-spindle boring and drilling units

Multiple brands for repair may be included on a single purchase order simplifying payment and warranty terms.

Over 40,000 spindles precision repaired.

We provide expert diagnostic evaluation and spindle rebuilds for the following applications:

- | | |
|------------|------------|
| ★ Milling | ★ Boring |
| ★ Turning | ★ Reaming |
| ★ Grinding | ★ Drilling |
| ★ Routing | ★ Tapping |
| ★ Sawing | ★ Honing |

Expertise serving these industries:

- | | |
|-----------------------|---------------------------|
| ★ Metalworking | ★ Plastics and Composites |
| ★ Robotics | ★ Stone and Marble |
| ★ Woodworking/OSB/MDF | ★ Glass |

As a vertically-integrated provider, costs and turnaround time are minimized. In addition, repair orders and fulfillment are streamlined.

SUPPORTING UPTIME WITH QUICK AND EFFECTIVE PRODUCTION SOLUTIONS

New replacement spindles.

In the event a spindle cannot be repaired, we can provide expert evaluation of production goals to recommend best fit spindle solutions:

- ★ Automatic
- ★ Manual
- ★ High-speed
- ★ 5-axis
- ★ Double-ended spindles



From these leading brands:



PDS support services.

- ★ Emergency repair services available
- ★ Spindle storage with monthly testing to ensure 100% operability and spindles delivered on demand
- ★ PDS offers a full-range of new spindles, engineering support, variable frequency drives, and tooling accessories
- ★ Ask about our industry Spindle Health Information Monitoring System and industry leading two-year **PrecisionCare™** warranty



Add our team of spindle experts to help meet your production and maintenance goals while lowering costs. Let us know how we can best benefit your production flow.



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