

Repair of Mitsubishi AC Spindle Motors SJ Series

Repair of Mitsubishi Spindle Motors

SJ-V

SJ-2

SJ-4

SJ-P

SJ-N

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Mitsubishi Spindle Motors

We test and repair Mitsubishi spindle motors.
Additionally, we also offer services for Mitsubishi drives.



We specialize in the following motor series:

- SJ-V
- SJ-2
- SJ-4
- SJ-P
- SJ-N

Our repair process is preventive in nature and includes a series of steps that contribute to ensuring high repair quality.

Error Analysis and Localization

What can you do?

Handling Parameters

When parameterizing, it is crucial to save the settings early and document jumper and key settings.



What to consider during parameterization?

- In most cases, motor parameters are stored in the drive or controller.
- Obtain the appropriate documentation or software for setting the parameters.



VIDEO: Repair and test process of Mitsubishi AC Servo/Spindle Drives MDS-A/B/C/D/DH

The typical process of repairing Mitsubishi spindle motors

The repair process for spindle motors includes the following steps:

- Preventive overhaul - replacement of all necessary defective and worn parts. Renewal of ball bearings and seals.
- Intensive cleaning, paint stripping, and degreasing.



- New painting.
- Comprehensive final and long-term tests on our test benches with subsequent final adjustment.
- Completion of documentation and checklists.



VIDEO: Mitsubishi AC Spindle Motor SJ-N5.5XZM Test and Repair

High-quality Spare Parts for High-quality Repairs



For Mitsubishi spindle motors, we replace:

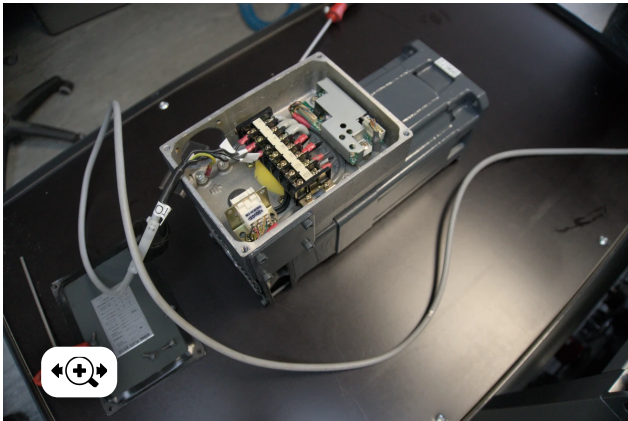
- Encoders
- Encoder cables
- Encoder plugs
- Resolvers
- Brakes
- Ball bearings
- Shaft seals
- O-rings
- Power cables
- Power plugs

Additionally, we proactively replace certain components that have proven to be vulnerable due to recurring defects.

To prevent bottlenecks and product discontinuations, we monitor our inventory levels using process-oriented software solutions. We pre-order some parts and even secure sufficient spare parts for a year for series repairs.

Quality and Level of Repair

Professional repairs require the use of a test bench. A tailor-made and complex test equipment is developed for each new series. The devices are thoroughly checked for functionality by undergoing long-term testing.



The test is conducted on a state-of-the-art test bench that closely simulates the workflows of a real machining machine with Mitsubishi control.

Testing includes:

- Encoder connection
- Alarm states
- Speed
- Current and voltage consumption
- Temperature
- Vibration
- Noise level



VIDEO: Mitsubishi AC Spindle Motor SJ-N5.5XZM Test and Repair

We continuously expand our repair portfolio with new series

Since drive and power electronics are often discontinued early, supply bottlenecks arise, and you may come under pressure to procure replacement parts for your customers in a timely manner. We support you in analyzing bottlenecks and work together on optimal solutions.

Typical procedures include:

- Development of test stations and procedures.
- Organization of spare parts.
- Preventive repairs at the component level.

- If necessary, development or re-engineering of modules or complete devices.

Alarm lists

Manuals



MDS-A-B-Servo-Spindle-Powersupply-Alerts.pdf (7.48 MB)



MDS-C1-Powersupply-Alerts.pdf (0.08 MB)



MDS-C1-Servo-Spindle-Alerts.pdf (0.41 MB)



MDS-CH-Servo-Spindle-Alerts.pdf (0.25 MB)



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We are solution-oriented