

Explore More Service

**Validation and repair for
tightening systems**



CERT #5994.01

Machine Capability Test
for tightening systems

Rexroth Service – certified quality with you every step of the way

1 WE GET YOU STARTED

Rexroth field service can help you get your tightening systems up and running quickly and correctly from the very beginning. Initial training helps your team to operate and optimize your tightening systems.



- **Technical Training**
 - Find the ideal tool for your application
 - Quality features to support for Industry 4.0
 - Tightening programming; support & optimization
- **Commissioning**
 - On-site set up – our experts on site!
 - Programming and tuning/optimization
 - On-site machine capability test – ISO 17025
- **Consulting & Optimization**
 - Reduce failure rate & speed up cycle time
 - Remote analysis of tightening programs or in-field optimization

2 WE KEEP YOU MOVING

Our new **Bosch Rexroth U.S. Repair Center of Competence** for tightening systems was established to support your needs locally with minimum turnaround time.

- **Local repairs of Rexroth tightening products**
 - Tightening spindles
 - Ergospin – Hand-held tools
 - Nexo – Hand-held wireless tools
- **Our repairs include full service of**
 - EC motor repair
 - Transducer repair and calibration
 - Repair of gear boxes and output drives
 - Machine capability test
- **Or choose our remanufacturing option**
 - Troubleshooting and replacement of failed parts
 - Replacement of all wear parts, cleaning and greasing
 - Recalibration and Machine Capability Test
 - Two year warranty for remanufactured tool/spindle





3 WE ENSURE YOUR PRODUCTION QUALITY

Rexroth technicians are here to optimize your production quality. Periodical validation of your tools and preventative product maintenance keep you up, running and safe.

Validation (Machine Capability Test)

- Available for Bosch Rexroth, Bosch and third party tightening tools
- Validation of different targets, like torque and angle
- According to your preferences, validation on site or in Bosch Rexroth laboratory possible
- If your tool is found out of tolerance during validation, adjustment and repair (in Rexroth lab) available
- Accredited validation, according to ISO 17025 and VDI/VDE 2645 Standards
- Original manufacturer's data and tolerances are applied

Preventative maintenance

After running your tool 1,000,000 cycles, we recommend a check-up! The check-up includes:

- Replacement of worn parts
- Cleaning and greasing
- Recalibration of transducer
- Machine capability test

We make your life easier – with our service contracts!

Your service contract can include:

- Annual or biannual validation of tightening tools
- Validation according to ISO 17025 standard
- Preventative maintenance based on applied load cycles
- Recalibration
- Tightening program optimization
- Training



WHY APPLY ISO 17025 STANDARDS TO YOUR MACHINE CAPABILITY TESTS

ISO/IEC 17025 is an International Standard designed for the accreditation of Testing and Calibration Laboratories. Whereas certification according to **ISO 9001** or **ISO 14001** is recognition that an effective management system is in place, **ISO/IEC 17025** includes recognition of the **technical competence** of laboratories. The **Selection, Verification, and Validation of Methods** is one of the most important parts. This includes:

- Technical **competence of staff**
- **Validity and appropriateness of test methods**
- **Traceability** of measurements and calibrations to national standards
- Suitability, calibration, and maintenance of test equipment
- Testing environment, handling and transportation of test items
- **Calculation of uncertainties** (both systematic measurement bias and random components)
- **Performance proficiency** extended through round-robin testing

Non-ISO-17025-certified calibration procedures are not supervised by any independent institute and thereof are questionable in regards to appropriateness of test methods and traceability. In many cases, regulatory authorities will not accept test or calibration results from a lab that is not accredited to ISO/IEC17025. This can be extraordinarily important to product liability proceedings.

When you use Rexroth an ISO/IEC 17025-certified company for validation, you can feel comfortable knowing:

- The **applied test methods are valid for your purpose**, and this is **certified by an independent external accreditation company**.
- Testing is performed to the test methods and standards that are claimed. We can show and explain the standard/testing procedure and an independent quality check is applied.
- **Test equipment is calibrated** in the correct interval and the calibration is **traceable**.
- **Individual test certificates** are provided for each tool, stating a unique identification of the tool, the test procedure, defined error limits, cm and cmk values, ambient conditions, and name and signature of person who performed the test.

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