

Introduction – Quality Assurance and Manual Fastening

Quality assurance that gives peace of mind

Problems related to tightening account for a growing percentage of total warranty costs. A loose or improperly tightened joint in any assembly operation can cause serious problems and have serious consequences for end-users and result in damaged brand image for the manufacturer. Atlas Copco has developed a comprehensive quality assurance system designed to eliminate these problems.

Atlas Copco's tightening quality assurance system meets torque, angle and pulse measurement requirements for all types of fastening tools and joint verification through the residual torque check process.

In this range there are products that enable you to:

- Test the tool capability in the crib or along the line.
- Calibrate the tool in the fastest, most convenient way.
- Perform statistical process control of the performance of the tool along the line to prevent possible tool errors.
- Check the residual torque in an already tightened joint with an advanced algorithm to avoid operator errors and influence.

DATA ANALYSER PLUS ROTARY AND STATIC TRANSDUCER

The STa 6000 provides a complete range of systems for checking the tool in the tool crib or along the line. When connected with the MRTT-C wrench the STa 6000 is able to detect the residual torque on an already tightened joint using our patented algorithm used also in the STwrench.

STWRENCH

State-of-the-art, four-patent wrench that employs the modularity concept to check the residual torque on an already tightened joint. It can also be used to tighten a bolt with the most advanced torque or torque/angle strategies with complete traceability and error-proofing functionalities.



BENCHES

A full range of Joint Simulator Benches with a patented system for testing tools in real production conditions, or Static transducer benches as an all-in-one mobile system.

SOFTWARE

Torque Supervisor is Quality Management software to manage your Tool/Joint test and your maintenance activity. It can be used with benches, wrenches and data analyser.

NOTE: The accuracy of SRTT-B, IRTT-B, QRTT-B and smartHEAD transducers is 0.5 % of the readout ± 1 digit for the torque range indicated in the tables.