Introduction Data Analyser

STa 6000

In assembly operations worldwide there is an increasing focus on quality. Using sophisticated tools to tighten bolts is simply not enough. It's also important to monitor tool performance, and to test joints after they have been tightened. This is where the Atlas Copco STa 6000 come in. The portable STa 6000 can be used to check tool performance, repeatability and accuracy for all types of power tools and torque wrenches. Test your tools in the tool crib following service and continuously on the line to monitor performance or test your joint by checking the residual torque using our unique residual torque check function.

STa 6000

Improve everyday tasks for Quality supervisors and operators. Reduced weight and compact design makes the STa 6000 easy to carry along the line. Checking tools in the Tool Crib and on the line and checking tigthened joints means quality guaranteed.

PORTABLE AND ERGONOMIC

The compact STa 6000 with long-life battery weighs less than 500 g. No special device is required to carry the system it can be conveniently hung on a strap from the operator's belt.

The STa 6000 small size and features make it easy to use in the production line.

QUICK PROGRAMMING

The STa 6000 is designed for easy connection to Atlas Copco IRTT-B in-line transducers, SRTT-B static transducers and MRTT-C wrenches. It is also easy to connect the STa 6000 to SRTT-L by specific cradle in order to have a compact complete solution.

It provides automatic recognition and calibration and allows the operator to start a test with a few clicks: just selecting the tool type to be checked. The test setup is automatically created by STa 6000.

MODULARITY – YOU BUY WHAT YOU NEED

The STa 6000 is easy to upgrade. You don't need to buy a complete new model. Simply add modules and accessories that expand the functionalities and create your customized torque analyzer system.

COMMONALITY CUTS COSTS

The STa 6000 utilizes the same modules and software as the STanalyser and STwrench, thus saving you money.

CLEAR OPERATOR FEEDBACK

STa 6000 color screen features intuitive icon menus.

Feedback is clearly displayed thanks to the green or red screen, with the possibility to add a gauge indicator and fully customize information.

STa 6000 BASIC

The ideal solution for simple and quick tests.

Quick programming

- The quick tool or joint check test can be launched with STa 6000 basic version. Up to 50000 results are stored in the device memory, traces can be seen with TT BLM if the software is purchased.

- No PC is required
- Test conditions can be set up right on the device for each test
- Color screen
- The green/red color screen guides the operator for the tests

STa 6000 QC

The ideal solution for operators requiring a complete testing solution.

This version includes all the features listed for the Basic one, and additional others:

- **Tools and Psets database**
  This is a list of tools you want to test (max. 1,000). It contains all information related to the tool, such as type, model, min. and max. torque, etc. The PSet defines how the test has to be performed with acceptance limits. A maximum of 1,000 PSets can be stored and 5 max. per tool can be assigned.

- **Traces on display**
  Traces can be seen directly on the STa 6000 screen.

- **Customized screen**
  The measure screen can be customized with all the important information to have them displayed during the test. It is possible to have on the measure screen information as Cm/Cmk values, sigma, last results also a graphical gauge indicator can be added.

- **Full text notes**
  Text notes can be added to the results to keep the full traceability of the tests.
- **PF and PM Calibration**
  STa 6000 allows to complete calibrations simply connect the STa 6000 to an Atlas Copco controller with either a Ethernet cable or with the small USB to serial adapter. All other operations are done by the STa 6000 as the Pset is automatically read from the controller. The readings are also acquired and the new calibration value is stored in the controller. Calibration made easy, fast and completely error-proofed.
- Reports can be printed on a network printer.

STa 6000 AA

The recommended solution for Advanced Analysys.

- **The STa 6000 ultimate solution**
  All the features are included in this version, statistics CM/Cmk graphs and X/R charts can be visualized right on the STa 6000 screen.

TT BLM

With TT BLM software, it's possible to manage programs, settings, results and traces of the STa 6000 remotely via the network from the office PC.

A smart Excel database for the STa 6000 results is featured by TT BLM software.

NOTE: software license is necessary for the above features

TORQUE SUPERVISOR

STa 6000 is fully integrated with Torque Supervisor software.
It's possible to take advantage of all the advanced features of Atlas Copco Quality data management software with STa 6000, programming the tool check and joint check routes to be executed.

ACCESSORIES

With the Barcode Module it is possible to automatically start a tool or a joint test, and it is possible store further scanned information on their results. In addition a work order can be defined to set the scanning order of different identifiers.

With IRC-W Radio Module you can wirelessly communicate to software.

With the USB/Serial converter, it is possible to synchronize to Power Focus, Power MACS and PST for their calibration.

STa 6000

Model	Ordering No.
STa 6000 analyser (device)	8059 0956 60
STa 6000 battery	8059 0955 61
STa 6000 power supply [a]	4612 0300 21
Battery charger	8059 0930 88
STa 6000 battery charger adapter	8059 0955 75
STa 6000 stand	8059 0956 73
STa 6000 USB/Serial adapter	8059 0956 74
STa 6000 rubber protection	8059 0956 76
RBU QC for STa 6000	8059 0956 62
RBU AA for STa 6000	8059 0956 63
IRC-B Module	8059 0920 10
IRC-W Module	8059 0920 15
Bar Code Module	8059 0920 12
ACTA RS232 cable 3 m	4222 0546 03
ACTA RS232 cable 5 m	4222 0546 05

[a] STa 6000 is provided with the power supply in the box.
Battery has to be ordered separately.

STa 6000

Functionality Overview STa 6000

STa 6000 BASIC

BASIC is the perfect solution for simple and quick tests.

STa 6000 QC

QC version for operators requiring a complete testing solution.

STa 6000 AA

AA version is the recommended solution for Advanced Analysis.

	BASIC	QC	AA RBU
HARDWARE CAPABILITY			
Number of Channel	1	1	1
Torque	yes	yes	yes
Angle (Encoder or Gyrsocope)	yes	yes	yes
MRTT-C connection for joint checks	yes	yes	yes
Size in mm	110x200x45	110x200x45	110x200x45
Weight [grams]	<= 500	<= 500	<= 500
Color Display	yes	yes	yes
Keyboard	yes	yes	yes
Results Storage	50000	50000	50000
Traces storage	50000	50000	50000
RBU - Rapid Backup Unit	no	yes	yes
Direct Power Supply (slow charger 6H)	yes	yes	yes
RJ45 (Ethernet)	yes	yes	yes
USB	yes	yes	yes
Non Atlas Copco analog transducer connection	yes	yes	yes
SOFTWARE CAPABILITY - ONBOARD			
Languages	yes	yes	yes
Multi-units	yes	yes	yes
Pset	1 (not saved)	1000	1000
Batch Count	yes	yes	yes
CW/CCW	yes	yes	yes
Database - Tool	no	1000	1000
Quick Programming	yes	yes	yes
Power Focus and Power Macs calibration	no	yes	yes
Traces on display	no	yes	yes
Advanced analysis graphs on display	no	no	yes
Custom mesurement screen	no	yes	yes
Wi-Fi print	yes (with IRC-W module)	yes (with IRC-W module)	yes (with IRC-W module)
Ethernet print	yes	yes	yes
SOFTWARE FUNCTIONALTIES - ONBOARD			
Tool Check			
Wrench testing	yes	yes	yes
Power tool testing	yes	yes	yes
Pulse Tool testing	yes	yes	yes
Min, Max, Med, Sigma statistics	yes	yes	yes
Cm/Cmk	no	yes	yes
SPC	no	yes	yes
Joint Check			
Yield point	yes	yes	yes
Residual Torque/Time	yes	yes	yes
Residual Torque/Angle	yes	yes	yes
Residual Torque/Peak	yes	yes	yes
Loose and Tight	yes	yes	yes
SOFTWARE CAPABILITY - CONNECTIVITY			
ToolsTalk BLM to view/export results and traces via Wi-Fi (with IRC-W), USB/RJ45	yes	yes	yes
ToolsTalk BLM to program test strategies via Wi-Fi (with IRC-W), USB/RJ45	no	yes	yes
Torque Supervisor via Wi-Fi (with IRC-W), USB/RJ45	no	yes	yes
API via Wi-Fi (with IRC-W), USB/RJ45	no	yes (with API RBU)	yes (with API RBU)