

Atlas Copco STanalyser

Quality in the palm of your hand



Sustainable Productivity

Atlas Copco

STanalyser



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 STanalyser comes in. The portable STanalyser 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.

Portable and user-friendly

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

The STanalyser's small size and features make it easy to use in the production line.

Faster set-up time

The STanalyser is designed for easy connection to Atlas Copco IRTT-B in-line transducers, SRTT-B static transducers and MRTT-B or MRTT-C wrenches. It provides automatic recognition and calibration, eliminating set-up errors and reducing set-up time.

Modularity – you buy what you need

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

Commonality cuts costs

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

Clear operator feedback

The STanalyser is equipped with LEDs that show the tightening result (OK, Not OK) plus an audible signal in the form of a buzzer. The display provides comprehensive tool test information, as well as date, time and battery condition.

STanalyser without RBU

The simple solution to test your tools. Just plug in an Atlas Copco transducer, rotary or static, and you are ready to make your test.

Free Mode: Track and Peak test

The track function shows the applied torque in real time. The Peak function shows maximum torque reached – useful if a quick test is needed. In free mode no statistics or data will be stored.

Tool Check

By selecting the type of tool to test (Wrench, Power Tool or Pulse Tool) you can check your tool and view the Min, Max, Med and Sigma values directly on the display during the test. 5,000 results are stored.

Export the results

Test Reports can be exported with Tools Talk BLM via USB cable. Tools Talk BLM will recognize the STanalyser without RBU version and it will not ask for registration.

Data can be exported in Excel. A report can be printed or saved as a PDF, RTF, XLS, TXT or TIFF file.

STanalyser with Tool Crib T or Tool Crib T/A RBU

This more advanced solution allows you to test your installed tool base with a torque transducer or torque/angle transducer (with Tool Crib T/A RBU). Select the tool to be tested from the Tool Database, select the desired PSet and you are ready to perform your test.

Tool 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, supplier, 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.

Real time static results are shown on the display in the statistical page results.

STanalyser with Residual Torque RBU

This solution allows you to test the installed torque in a joint. Our unique algorithm is able to detect the real residual torque in real time using the torque/angle signal from the MRTT-C wrench. The PSets defines the acceptance limits.

STanalyser with Production RBU

This function allows you to tight a bolt with an MRTT-C connected to the STanalyser. All known tightening methods can be programmed in the PSet like Torque, Torque Control with Angle Monitoring, Torque plus Angle, Yield or Yield plus Angle.

Tools Talk BLM

Program the STanalyser with Tool Crib T RBU and export the results. It is possible to select the results you are interested in and create your report to be printed or saved as a PDF, RTF, XLS, TXT or TIFF file.

Connectivity

Connect your STanalyser to Torque Supervisor and gain full control of your test process.

API connectivity

Use the Tool Crib T/A API RBU to connect the STanalyser with an external device via cable. The API makes able the customer to create his interface to the system in a easy way using standard software code.

Fast, easy power supply

The STanalyser is supplied with an AC power adapter for corded operation. A battery can be ordered separately as an option. The lithium-ion battery allows 10 to 16 hours of operation without charging.



Technical specifications

Hardware capability		Tool CribT RBU	Tool Crib T/A RBU	Residual RBU	Production RBU
Number of Channel	1	1	1	1	1
Torque	yes	yes	yes	yes	yes
Angle (Encoder or Gyroscope)	no	no	yes	yes	yes
TAG recognition	no	no	no	yes	yes
Size in mm	110x200x45	110x200x45	110x200x45	110x200x45	110x200x45
Weight [grams]	<= 500	<= 500	<= 500	<= 500	<= 500
Graphical Display	yes	yes	yes	yes	yes
LED : OK, NOK, nxOK, Alarm	yes	yes	yes	yes	yes
Keyboard	yes	yes	yes	yes	yes
Results Storage	5000	5000	5000	5000	5000
RBU - Rapid Backup Unit	no	yes	yes	yes	yes
Direct Power Supply (slow charger 6H)	yes	yes	yes	yes	yes
RJ45 (Ethernet)	Not active	yes	yes	yes	yes
USB	yes	yes	yes	yes	yes
Non Atlas Copco analog transducer connection	no	yes	yes	no	no
Software capability - onBoard					
Languages = IT, Eng, Fr, Germ, Sp, Portuguese	yes	yes	yes	yes	yes
Multi-units (Nm, Kgm, Kgcm, Ozin, Lbin, Lbft, Ncm)	yes	yes	yes	yes	yes
Pset	1	1000	1000	200	200
Batch Count	no	yes	yes	yes	yes
Job	no	no	no	100	100
CW/CCW	yes	yes	yes	yes	yes
Database - Tool	no	1000	1000	no	no
Software Functionalities - onBoard					
Free mode					
Track torque	Torque	Torque	Torque	Torque	Torque
Peak torque	Torque	Torque	Torque/Angle	Torque/Angle	Torque/Angle
Tool check					
Wrench testing	yes	yes	yes	no	no
Power Tool testing	yes	yes	yes	no	no
Pulse Tool testing	yes	yes	yes	no	no
Min, Max, Med, Sigma statistics	yes	Torque	Torque/Angle	no	no
Cm/Cmk	no	Torque	Torque/Angle	no	no
Joint Check					
Peak torque	no	no	no	yes	no
Residual Torque/Time	no	no	no	yes	no
Residual Torque/Angle	no	no	no	yes	no
Loose and Tight	no	no	no	yes	no
Production Strategies					
Torque	no	no	no	no	yes
Torque Cont & Angle Monit	no	no	no	no	yes
Torque Plus Angle	no	no	no	no	yes
Yield	no	no	no	no	yes
Yield plus Angle	no	no	no	no	yes
Loose	no	no	no	no	yes
Software capability - connectivity					
Viewer (PC Export) - Tools Talk BLM	USB	no	no	no	no
Tools Talk BLM to program and export data	no	USB/RJ45	USB/RJ45	USB	USB
TS Torque Supervisor Full	no	USB/RJ45	USB/RJ45	no	no
API	no	no	USB with API RBU	no	no

Type	Ordering No.
STanalyser	8059 0955 60
STa battery	8059 0955 61
STa battery charger adapter	8059 0955 75
STa RBU Tool Crib T	8059 0955 63
STa RBU Tool Crib TA	8059 0955 64
STa RBU Residual	8059 0955 66
STa RBU Production	8059 0955 67
STa RBU Tool Crib TA API	8059 0955 71
STa RBU Residual API	8059 0955 72
STa RBU Production API	8059 0955 74