QA Platform 4.0

Smart Connected Quality

1 Automatic Station
Spindle, Multispindle and Robot station can be easily tested with IRC-Connect and STpad for testing on automated stations.

2 Joint Check
STpad and STpalm add visual guidance, flexibility and traceability to residual checks with STwrench.

3 Joint Simulation Tool Check
Mobile STbench for fast and reliable quality testing of tool performance.

4 Dimensional Check
Automatic dimensional check traceability can be performed with STpad or STpalm.

5 Non-Torque Check
Full operator guidance for any non-torque related checks managing full traceability, assignable causes and corrective action.

Turn data into valuable insight

With QA Platform 4.0 you can make sure that every step of quality assurance is under control. Document your results and turn them into valuable data, to give you quality assurance over time.

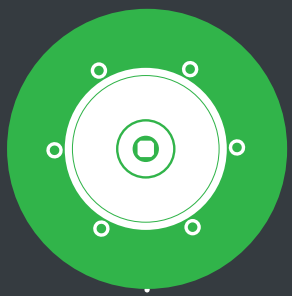
The more insight you have on quality process performance the more accurate actions you can take – this is imperative for the complete quality of the assembly line.


6
Quality Process Control
Schedule operator tasks and monitor the process with QA Supervisor – easily accessible from your PC.
7
In-line tool Check
Simple and effective test in the line with STa 6000.
8
Visual Check
Standardization and Full Traceability of visual test like go-no go test and defects correction.
8
7
5
6
Connect from any device
You can connect to QA Supervisor from any device with a web browser connection.

Smart connected solutions for quality assurance

With the QA Platform 4.0 you can cover all the aspects of quality assurance in your applications – with one single solution.

The three stages of quality assurance
The QA Platform 4.0 product portfolio, is a flexible modular solution for quality assurance with exact configuration for your applications. It is designed to meet your needs in three stages of quality assurance.



Measuring with accuracy
As a reliable base, you have products that measure every application result.

The Atlas Copco STbench and our transducers. Theese products makes sure you can test tool capability – either in the crib or along the line.

Collecting and executing
To take care of the data reported from the tools, you have products that collect the data.

With the STpad and STpalm at hand, you can program tests, guide your operators in execution and collect results. And with the STa6000 you can collects data on tool performance, repeatability and accuracy for all types of power tools and torque wrenches.

Managing and verifying
Overlooking this, you have the QA Supervisor managing the process. QA Supervisor is installed on a server and can easily be accessed via a web browser. The software Quality Supervisor is the core of the solution – gathering data, delivering insight, and handing out tasks.

Each component of the platform has a modularity by itself, customize the solution to suit your needs.

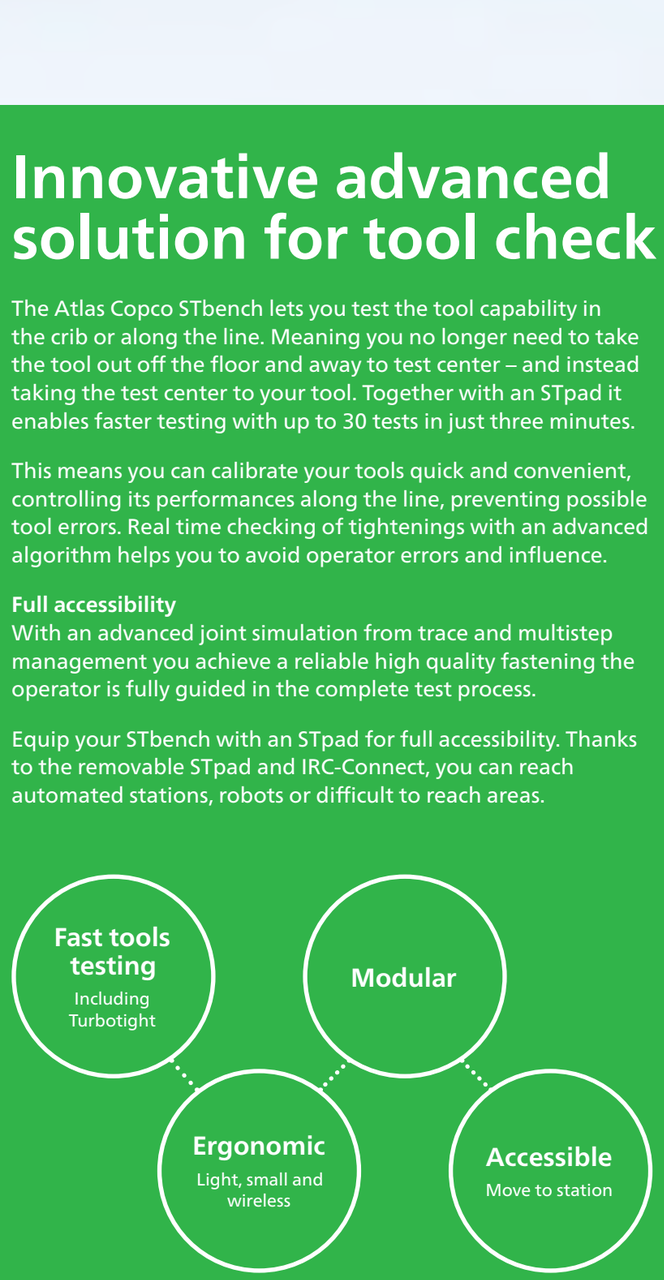
Innovative advanced solution for tool check

The Atlas Copco STbench lets you test the tool capability in the crib or along the line. Meaning you no longer need to take the tool out off the floor and away to test center – and instead taking the test center to your tool. Together with an STpad it enables faster testing with up to 30 tests in just three minutes.

This means you can calibrate your tools quick and convenient, controlling its performances along the line, preventing possible tool errors. Real time checking of tightenings with an advanced algorithm helps you to avoid operator errors and influence.

Full accessibility
With an advanced joint simulation from trace and multistep management you achieve a reliable high quality fastening the operator is fully guided in the complete test process.

Equip your STbench with an STpad for full accessibility. Thanks to the removable STpad and IRC-Connect, you can reach automated stations, robots or difficult to reach areas.



Improved testing speed
The new hydraulic system design allows for faster test start and an increased speed of tool under test. A new encoder increases the angle resolution, and the improved robust brushes increase transducer lifetime. Real traces from the actual joint are automatically uploaded.

Testing of automated stations

Thanks to IRC-Connect Smart Transducer you can deliver highest test reliability and operator independence in latest assembly technology such as robot and automated spindles. With an STpad or STpalm, you can have real time control over tightening results to assure the high quality you need for a satisfactory result.

Through IRC-Connect your automated stations can be tested while the user performs other operations. And thanks to the STpad you have complete access to anything you need for the task, while gaining advantages of the portability of the STpad – and the non-dependency of connectivity that the IRC-Connect brings.

IRC-Connect transforms your transducer to a smart wireless transducer. Data is safely stored, and the test is reliable in all working conditions.

Fast tools testing
Including Turbotight

Modular

Ergonomic
Light, small and wireless

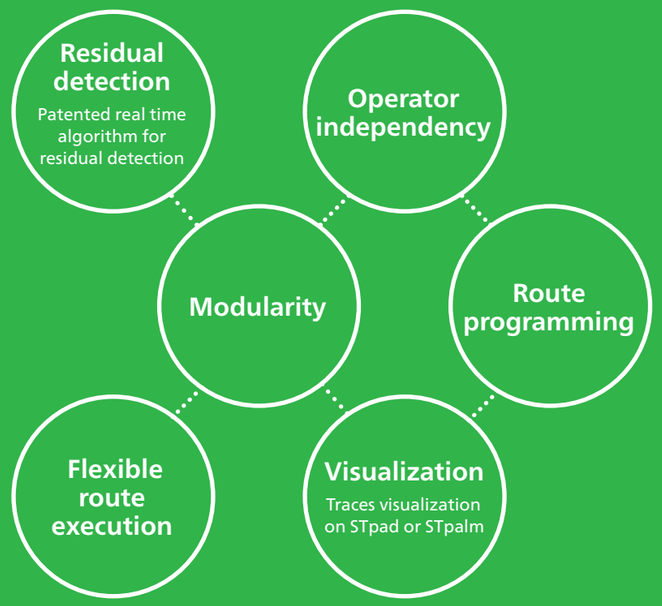
Accessible
Move to station

Highest flexibility and operator guidance for residual torque checks

With the STwrench, STpalm or STpad you can benefit from the portability and access everything you need, wherever you are.

The factory layout, including building, lines, stations and joints can be defined in QA Supervisor.

Pictures can be added to guide the operator through STpad or STpalm, that also features trace analysis.



Operator guidance for visual checks

With smart connected tools, you can measure you results with accuracy and efficiency. And when this is done, you need to collect and take care of the data reported. This is where the handheld devices STpad and STpalm make a difference.

STpad and STpalm guide the operator also for those checks that don't require numerical measurement, such as defects collection and go-no go test.

QA Supervisor support you in the standardization of the visual checks optimizing the route according the layout of you factory.

Using STpad and STpad, the effort of manual inputs and human error are eliminated, digitalizing the complete process. The advance guidance reduces the need of operator trainings.

The full traceability is kept including barcode, assignable causes and corrective action.

Reporting measurements outside torque

There will always be productions where non-torque related checks need to be conducted – and reported – manually.

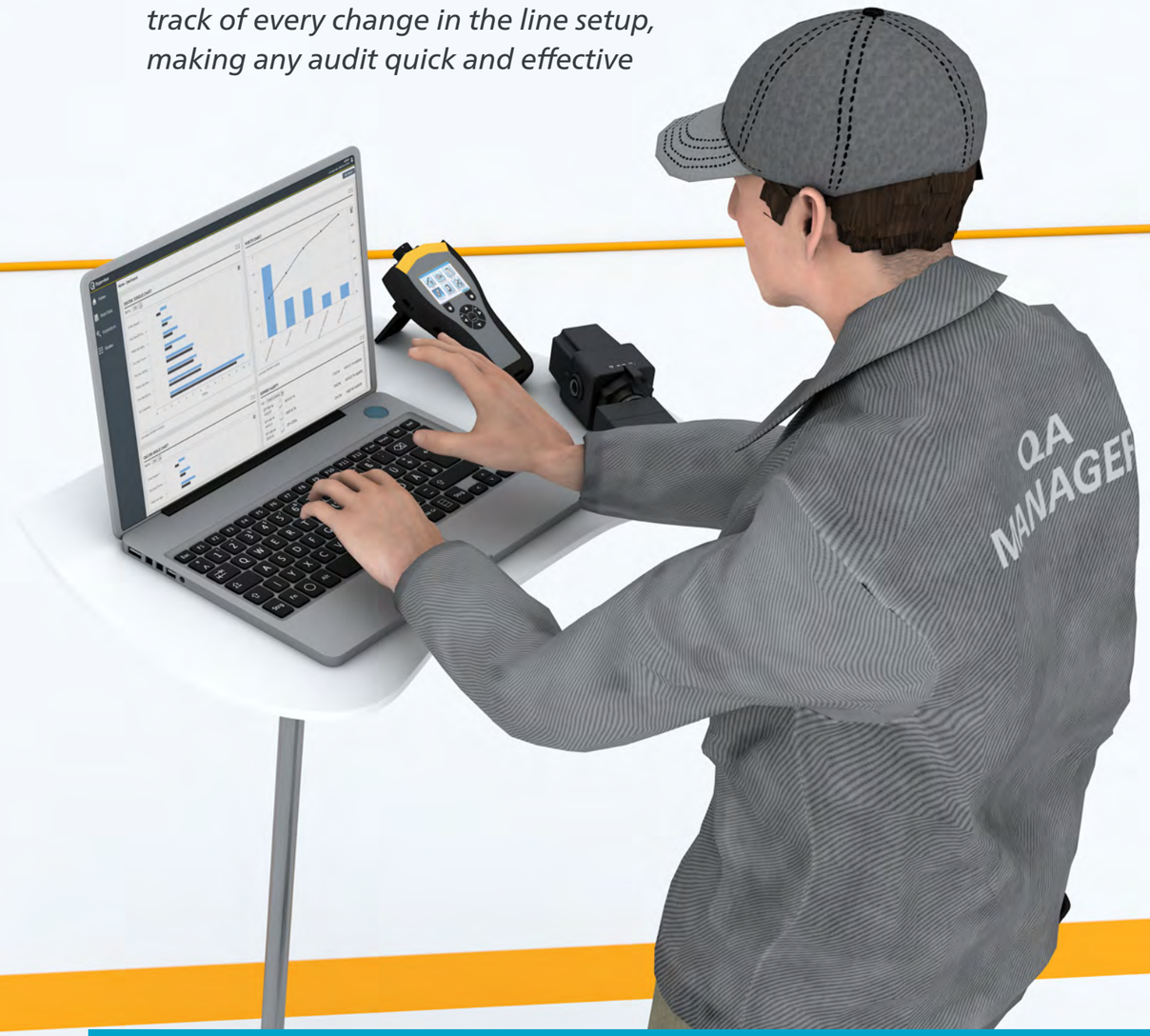
Non-Torque Checks
These measurements can be crucial information when working with quality assurance over the whole production. So whereas torque is reported automatically into the system, measurements from for example length or pressure, gauge needs to be reported manually to complete the big picture.

QA Platform 4.0 is a smooth way to record this important data. With an easy to use interface and operator guidance, and the portability for perfect usability, the operator can report and store data through the device, straight into the system.

With QA Platform 4.0 you can set up any measurement criteria needed, independently of what you are checking.

Every quality step of the way is digitalized. Even the important non-torque checks are reported digitally to provide you with a complete offer.

Every single detail of the plant structure can be defined in QA Supervisor. It then keeps track of every change in the line setup, making any audit quick and effective



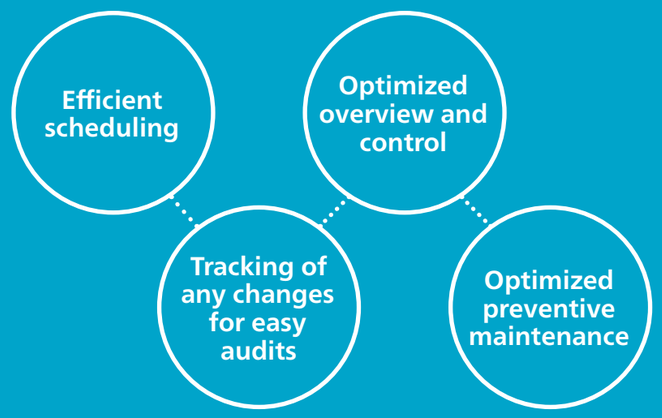
Manage your quality assurance

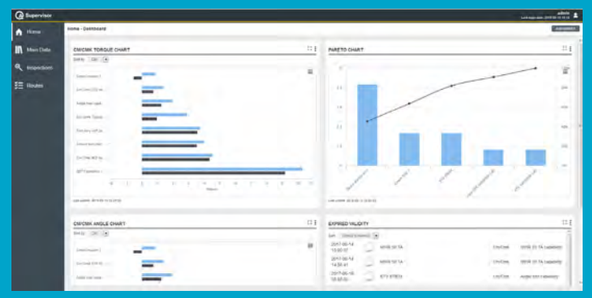
Monitor the process and take care of reporting. You can collect and manage data to eliminate related problems and reduce production defects.

Defective parts cause warranty costs and there are consequences for end-users as well as your brand image are a serious matter.

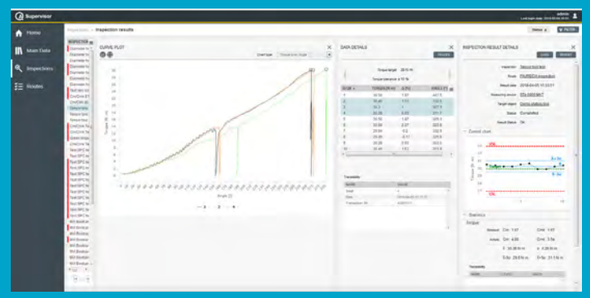
From scheduling to reporting
QA Supervisor is a web based software, accessible from any device – always connected. It manages scheduling of the tests requested and shows status overview. The collection of data from all devices covers all the QA applications – and each user can work smoothly with a quality dashboard with personalized widgets. Even the reports are customizable to better meet user needs.

QA Supervisor requires one single installation to a server to be managed, this provides different advantages:
- Reduce maintenance and IT costs
- Each user can log in from any device connected to the network with user/password access





Real Time Quality Dashboard
Personal quality KPI through customizable widgets always updated in QA Supervisor home page for each user.



Innovative user experience
Navigation by cards assures data access from anywhere with just a click. The software interface is optimized to show multiple data at the same time, includind direct web links to Atlas Copco ServAid.

Parts and order numbers

Description	Electronic delivery	Physical delivery
Device		
STpad	N/A	8059 0957 00
STpalm*	N/A	8059 0957 15
Accessories		
STpad docking station	N/A	8059 0957 03
STpad external battery charger	N/A	8059 0957 04
STpalm gauges USB adapter	N/A	8059 0957 17
STpalm cradle Ethernet	N/A	8059 0957 18
STpalm cradle USB	N/A	8059 0957 19
STpalm cover with strap	N/A	8059 0957 20
Licenses		
Tool Check	8059 0981 60	8059 0981 65
Joint Check	8059 0981 61	8059 0981 66
Visual Check	8059 0981 62	8059 0981 67
Dimensional Check	8059 0981 63	8059 0981 68

Description	Electronic delivery	Physical delivery
IRC-Connect		
IRC-Connect Bluetooth	N/A	8059 0956 81

Description	Electronic delivery	Physical delivery
QA Supervisor		
Tool Check	8059 0982 00	8059 0982 30
Joint Check	8059 0982 01	8059 0982 31
Dimensional Check	8059 0982 02	8059 0982 32
Visual Check	8059 0982 03	8059 0982 33
STa 6000 only Tool Check	8059 0982 04	8059 0982 34
Joint report	8059 0982 05	8059 0982 35
1 more device	8059 0982 08	8059 0982 38
5 more devices	8059 0982 09	8059 0982 39
10 more devices	8059 0982 10	8059 0982 40
More than 30 devices	8059 0982 11	8059 0982 41
QA Supervisor JSB client	8059 0982 20	8059 0982 50
VDI Norms	8059 0982 14	8059 0982 44
Dashboard	8059 0982 15	8059 0982 45

*check availability with your local Atlas Copco representative

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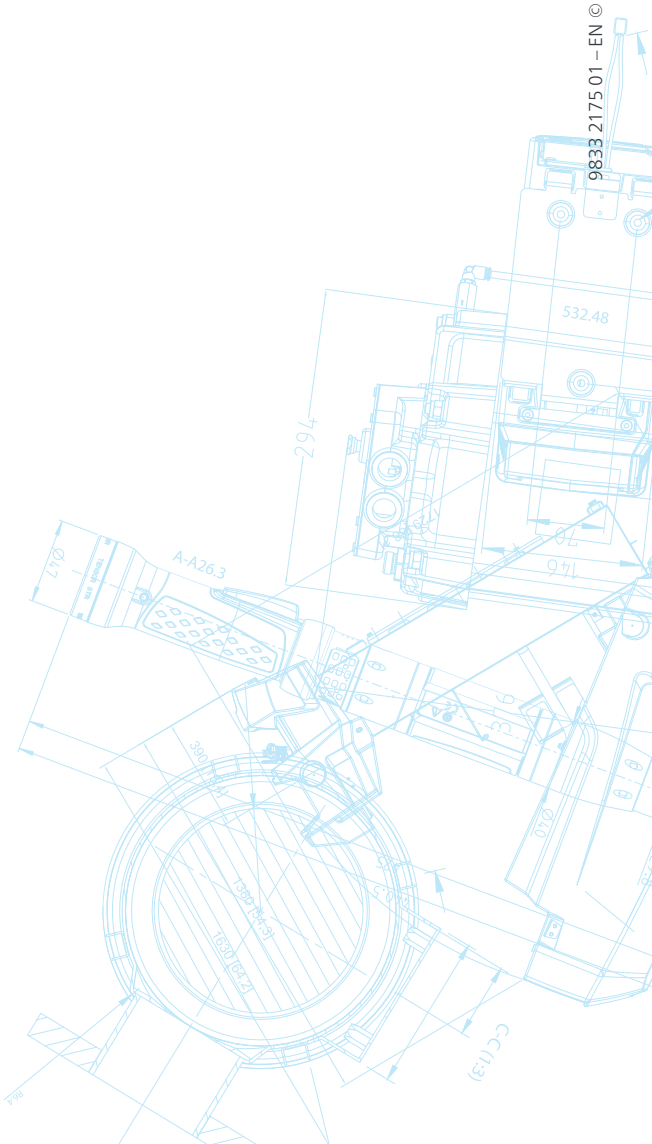

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