



Atlas Copco

# STbench

[atascopco.com](http://atascopco.com)

# STbench

The STbench family provides maximum tool evaluation flexibility. Click wrenches, power tools, peak tools and pulse tools can be evaluated and calibrated with bespoke solutions, according to the most used protocols and norms:

- Cm/Cmk ISO
- SPC

- ISO 5393
- ISO 6789:2003

- ISO 6789-2:2017
- CAM/Cpk CNOMO

- VDI/VDE 2645-2
- JJF 1610:2017



## SLIM frame

Developed to fit in those lines with very tight spaces without compromising the torque range. Handy stabilizing wings can be deployed to support high torque reaction.

## Articulated Arm

An articulated arm can be added on benches. Is possible to reach tools or spindles in cramped spaces and test them without unmounting.



## Tilting

Tilting top equipped benches rotate 90 deg. the top plane, keeping tool orientation to be operated in a safe way



## HWT

High torque hydraulic wrenches need a specialized transducer to be tested, with the Hydraulic Wrench Tester we can test tools up to 75.000Nm.

## Motorized

Reduce the QA test time and resources by automatically testing click, slip, break and peak wrenches with full ISO norms compliance - it can also accommodate brakes



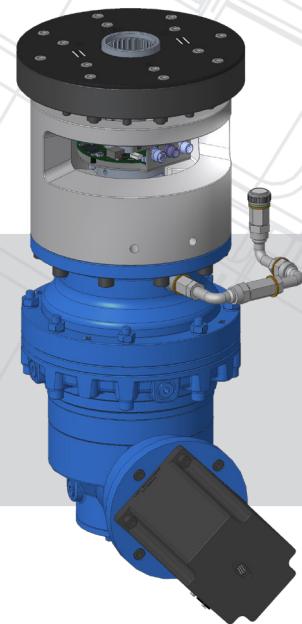


## SRTT-B

Ideal for testing Pulse tool capability with the help of joint simulators. Fully capable to test all the types of wrenches and direct driven tools.

## Motorized cell

Motorized cell is capable to test wrenches up to 1600 Nm. Its fully automated mechanism saves time and resources while being in accordance with ISO 6789:2017.



## Brake

The state-of-the-art transducer. Thanks to the patented hydraulic braking system, it is able to replicate the exact joint present in production and improve the overall testing time without the need to untighten a bolt. Direct driven tools as well as all kinds of wrenches can be tested on hydraulic brakes.

## Color Led ring

Led ring is now giving feedback with green or red light to inform the operator about real time tightening status.



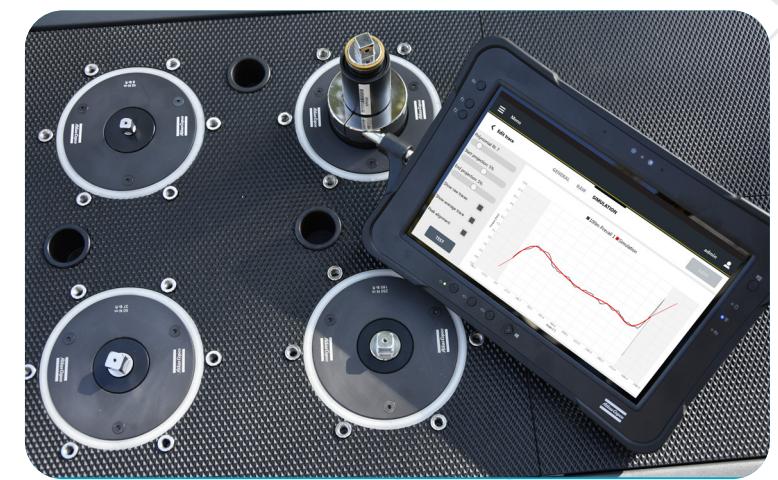
## STbench STANDARD

STbench is now capable of reproducing NON-Linear joints.

Traces to simulate are acquired on the real application or from TN8 and then elaborated on our data collectors.

This allow the customer to test and calibrate tools working on non-linear joints on our brakes, without the need to stop the line.

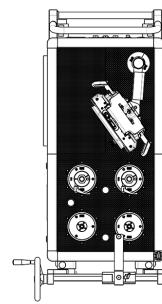
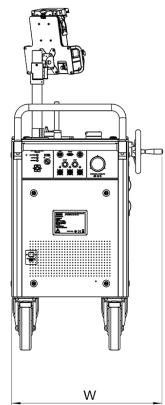
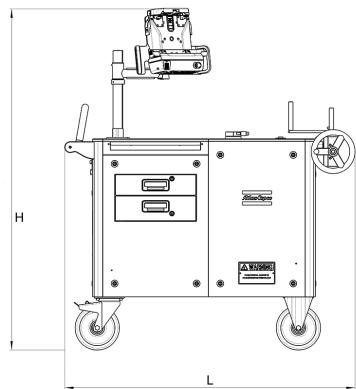
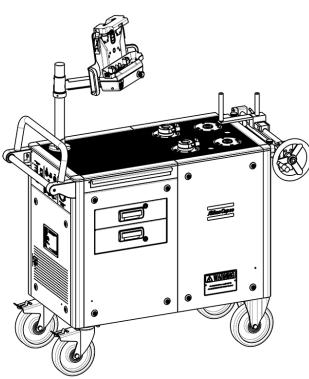
Trace simulation requires dedicated license, contact your local product manager for availability



Thanks to the removable STpad option you get full accessibility. You can use the same hardware to perform joint checks together with visual and dimensional checks.

Our best seller product with small and large frame options highly configurable to up to six transducers, thanks to its compact dimensions, it easily fits in production environment.

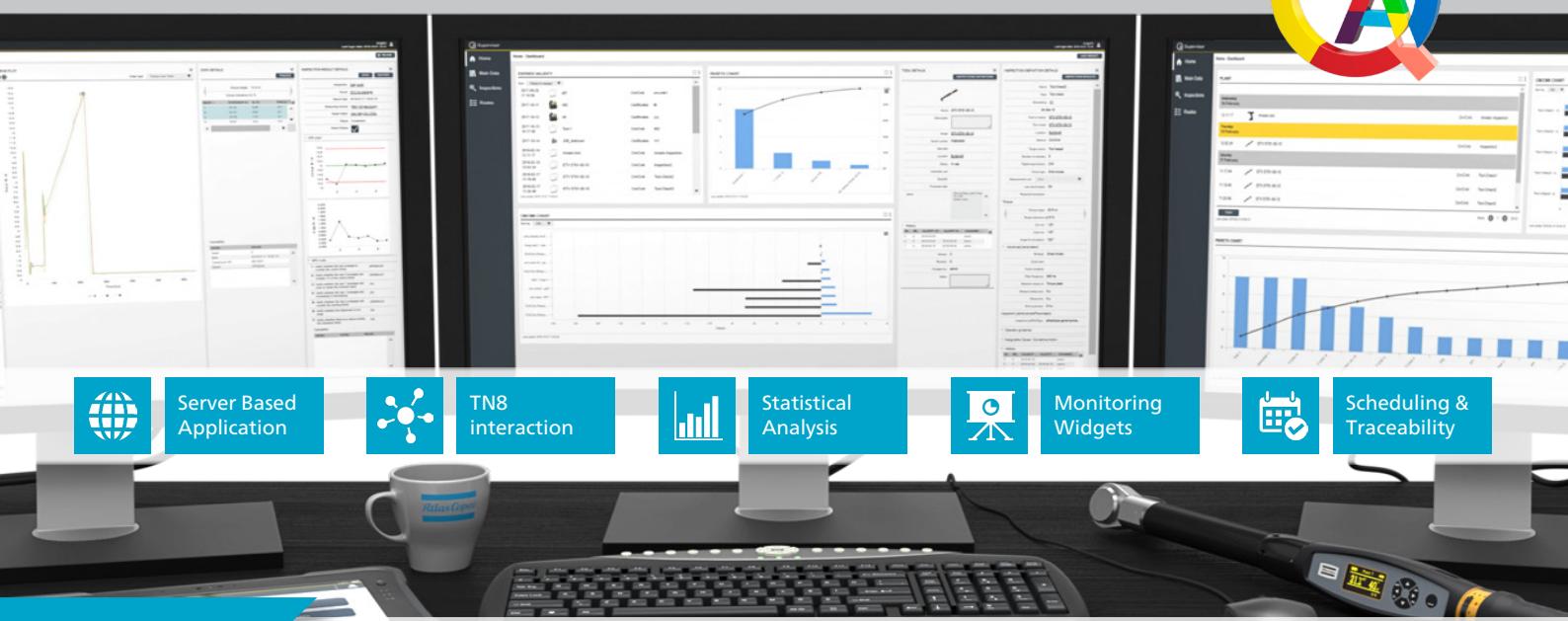
## STbench STANDARD



STbench type	L** (mm)	W (mm)	H (mm)	Static Range	Brakes Range	Motorized Cell	max. transducer number
Slim frame	1155	425	1500	0,5-250 Nm	2-500 Nm	NO	3
Small frame	1280	530	1550	0,5-250 Nm	2-500 Nm	NO	4
Large Frame	1590	528	1550	0,5-250 Nm	2-500 Nm	400 Nm	6
Motorized cell	2030	780	1840	0,5-250 Nm	2-500 Nm	400-1600 Nm	5
XL Stationary	2765	880	1700	0,5-500 Nm	2-3000 Nm	NO	8
HWT	1188	650	1085	16.000 – 25.000 – 75.000 Nm	\\	NO	3
<b>Options</b>							
Tilting top	\\	\\	\\	0,5-250 Nm	2-3000 Nm	NO	6
Articulated arm	\\	\\	\\	\\	2-250 Nm	NO	1

\* Dimensions with ISO RIG

## QA Supervisor



### Reports Available:

#### STbench:

CM\_CMK\_ISO  
CAM\_CPK\_CNOMO  
ISO\_5393

ISO\_6789:2003  
CALIBRATION

#### QA Supervisor:

Joint report  
Tool audit  
Capability

CM-CMK & trend  
Gage R&R  
SPC

Calibration  
ISO5393  
ISO6789:2003

ISO6789:2017  
JJF1610:2017  
VDI2645/2

See the different STbenches in virtual reality now!  
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