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FTY Power Tool and Wrench Dynamic Tester



AWT Automatic Wrench Tester



FMS Multistation Online Rework, Backup, Pilot/Beta Build, Repair Station



MSB Wrench and Tool Static Tester



FTA Automatic Torque/Angle Dynamic Wrench Tester



FTY Power Tool and Wrench Dynamic Tester

- (except impact wrenches) • Statistical Process Control: Measurement of machine capability (Cm, Cmk) and X, R charts • Test according to ISO 6789 and ISO 5393 Features • Fast and easy setup
 - Click point auto detection feature for click wrenches
 - Comparative test capability
 - Mechanical wrench loader for torque wrenches
 - External transducer connectivity for special tests
 - Standalone programming or program with SQnet+ quality management software

• Tool test: wrenches (electronic/digital, click), pneumatic, electric and battery tools, pulse tools

• Joint editor for non-linear joints "multistep simulation"



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"First test bench able to simulate the fastener in all conditions"



FTY Power Tool and Wrench Dynamic Tester

 Enter the test i 	parameters & run 40% faste	r than any other	comparable bench on	the market, today

- FTY reproduces real joint behavior
- Easy to service "plug and play" brakes
- Fully customized in hardware, transducers configuration, statistical reports
- Robust design with minor maintenance compared to competitors

	Torque range	0.2 N·m ÷ 2000 N·m maximum (the range depends from the transducers configuration)	
Technical Data	Torque measurement accuracy	0.5% of the reading	
	Meets the requirements of DKD-R 3-7, class 1		
	Max tool speed	1100 rpm	
	Angle measurement accuracy	1° over 360°	
	Joint simulation range	15° to 360° (angle measured from 50% to 100% of the target torque)	

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Example of parametrization of a fastener to be simulated







SCS FTY 0010 0001 - 10

Compared test:

Bench results are compared with tool results. Automatic communication or manual results entry.



ISO 6789 test (torque wrench) and **ISO 5393** (power tools) for and extended test on the whole range of the tool under test.



Prevailing torque simulation



Statistical process control (Cm-Cmk and control charts) with **SQnet+ software**.



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FTY

Power Tool and Wrench Dynamic Tester

🜔 Tilt



Motorized wheel



• Up/down spindle support



External brake







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MSB Wrench and Tool Static Tester

- Test, pulse tools and direct driven rotary power tools with mechanical joint simulator. Torque wrenches (electronic/digital, click)
- Statistical Process Control: Measurement of machine capability (Cm, Cmk) and X, R charts
- Test according to ISO 6789
- Automatic detection of the click point of click wrenches
- Comparative test capability
- Mechanical wrench loader for torque wrenches
- External transducers connectivity for special tests
- Standalone programming or program with SQnet+ quality management software





Benefits

• Easy test setup

- Easy to service "plug & play" transducers
- Fully customized in hardware, transducers configuration, statistical reports
- Robust design with minor maintenance compared to competitors



Torque range

Torque measurement 0.5% of the reading accuracy

Meets the requirements of DKD-R 3-7, class 1



Features

0.2 N·m ÷ 2500 N·m maximum (the range depends from the transducers configuration)



AWT

Features

Automatic torque wrench test according to ISO 6789

- Dynamically driven transducer for automated wrench testing
- Test according to ISO 6789
- Automatic detection of the click point of click wrenches
- Comparative test capability
- Clockwise and counterclockwise test
- Standalone programming or program with SQnet+ quality management software







- Lower total cost of ownership (TCO)
- Eliminate operator influence
- Productive, high thru put of wrenches
- Robust design with minor maintenance



Torque range	0.3 N·m ÷ 1600 N·m m
Torque measurement accuracy	0.5% of the reading
Meets the requirement	ts of DKD-R 3-7, class 1
Angle measurement	1° over 360°



Test Benches

maximum (the range depends from the transducers configuration)



Automatic recognition of the wrench click.

Compared test:

Bench results are compared with tool results. Automatic communication or manual results entry.





• Compared results



ISO 6789 test for an extended test on the whole range of the torque wrench.



Statistical process control SQnet+ software.











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FTA

Features

Automatic Torque/Angle Wrench test according to VDI/VDE 2645 and 2647

- Automatic test of digital wrenches according to VDI/VDE 2645 part 2 and VDI/VDE 2647
- Comparative test capability
- Test wrenches with extension
- Clockwise or counter clockwise test
- Automatic detection of the click point of click wrenches
- Standalone programming or program with SQnet+ quality management software





 Conforms to VDI/VDE norms and exceeds 		
• Lower total cost of ownership (TCO)		
• Eliminate operator influence		
• Productive, high thru put of wrenches		
 Robust design with minor maintenance 		
Torque range	1.5 N·m ÷ 1200 N·m	
Torque measurement accuracy	0.5% of the reading	
Meets the requirements of DKD-R 3-7, class 1		
Angle measurement accuracy	1° over 360°	





Compared test:

Bench results are compared with tool results. Automatic communication or manual results entry.



• Compared results

Test of torque wrenches with extensions:

The **FTA** transducer can be lowered turning the wheel. This makes possible to test the wrench with its extensions, evaluating how the extension bending affects the angle measurement.

Statistical process control (Cm-Cmk and control charts) with SQnet+ software.

Test of dial wrenches, click wrenches with automatic recognition of the click point.



ISO 6789 test for an extended test on the whole range of the torque wrench.









FMS Multistation

Online Rework, Backup, Pilot/Beta Build, Repair Station

- Flexible and modular production system
- Error-proofed procedures to work parts along the production line
- Temporary replacement of a failed power tool, minimizing downtime
- Operates with SCS Freedom³ wrenches and third party DC power tools controllers
- Custom plugins communication capabilities
- Ability to work with multiple tools in parallel
- Several types of operations supported: tightening (torque and torque/angle), logical, barcode, generic
- VIN scannning
- Reports and statistics
- AC Power Supply with PC backup unit







Features

Back-up tool

FMS can be used as a back up for tools used on the production line. Due to its flexibility, FMS can be easily moved along the production line and substitute the whole defecting unit, with a very short stop of the production.

Beta pilot (pre-series) or small production

FMS is a perfect instrument for small production or for pre-series, where the tightening tools are not yet defined. It can store all the assembly operations of the production station.





Repair

FMS can reproduce and production station. In case of a repair of a production item, FMS guides the operator in each phase of the rework procedure, with same quality and data traceability of the production line.



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Connection to power tools

FMS, with VPG+ software, can communicate directly with SCS Concept wrenches and most of the power tools controllers on the marked, using the industrial protocols.



Barcode scanner for part recognition and traceability