FTY

Power Tool and Wrench Dynamic Tester

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Features

- Tool test: wrenches (electronic/digital, click), pneumatic, electric and battery tools, pulse tools (except impact wrenches)
- Statistical Process Control: Measurement of machine capability (Cm, Cmk) and X, R charts
- Test according to ISO 6789 and ISO 5393
- 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
- Joint editor for non-linear joints "multistep simulation"

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

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Benefits

- Enter the test parameters & run 40% faster 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
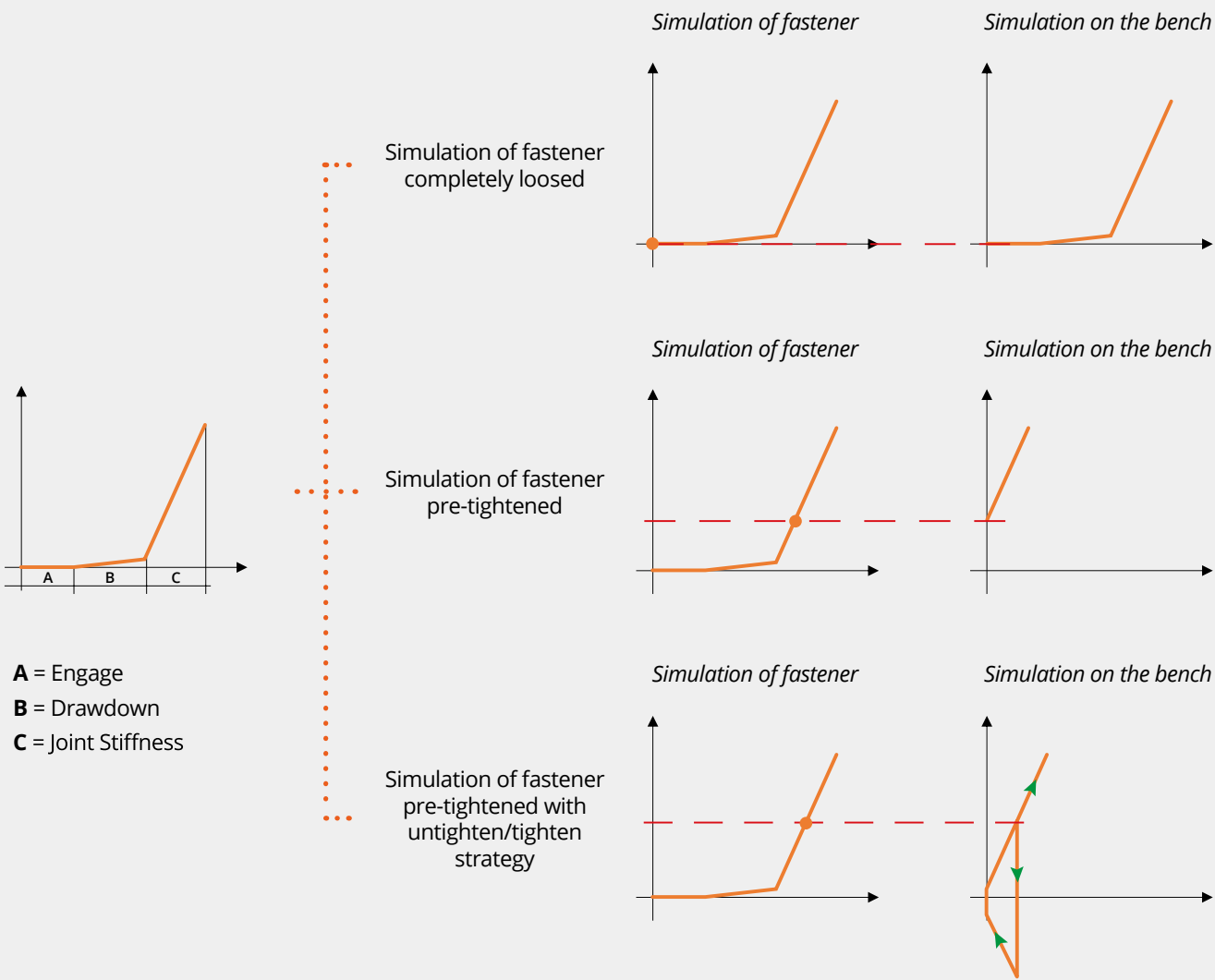
Technical Data

|	
Torque range	0.2 N·m ÷ 2000 N·m maximum (the range depends from the transducers configuration)
Torque measurement accuracy	0.5% of the reading
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)

Mechanical Wrench Loader

## Example of parametrization of a fastener to be simulated

A = Engage
B = Drawdown
C = Joint Stiffness

Simulation of fastener completely loosed

Simulation of fastener   *Simulation on the bench*

Simulation of fastener pre-tightened

Simulation of fastener   *Simulation on the bench*

Simulation of fastener pre-tightened with untighten/tighten strategy

Simulation of fastener   *Simulation on the bench*

Compared test:

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

:arrow_forward: Tool result

:arrow_forward: SCS app
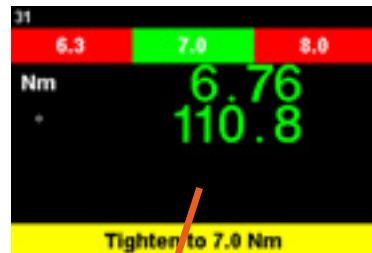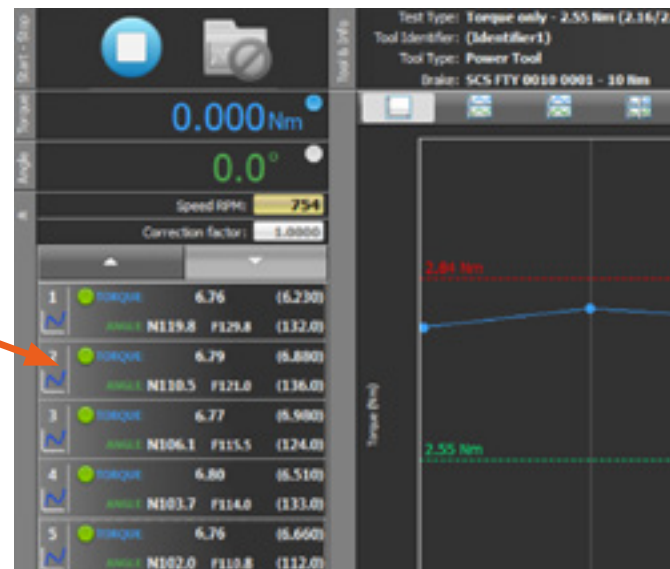
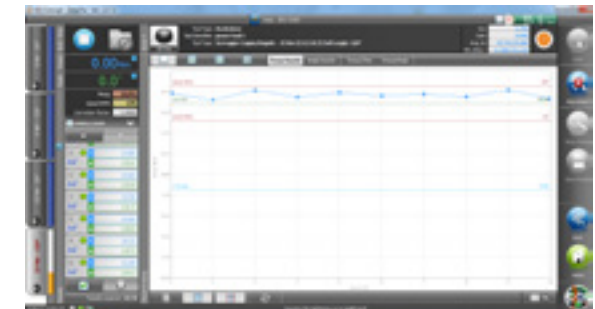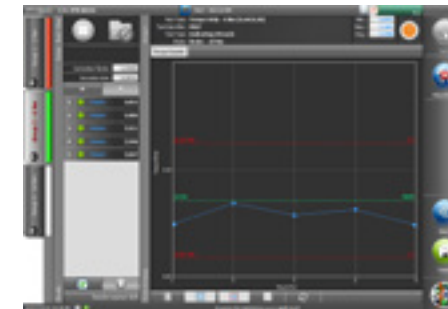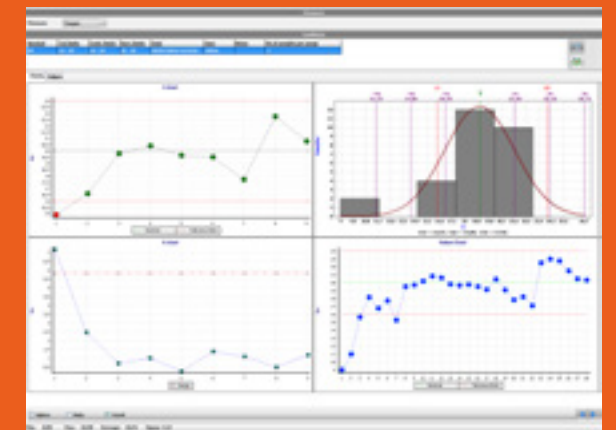:arrow_forward: Compared results

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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❯ Tilt

❯ Up/down spindle support

❯ Motorized wheel

❯ External brake