

### Weight

330 kg (with 300 N·m motorized transducer and 3 brakes up to 300 N·m)

### Reference

133 60 0001	Freedom FTS 300	BRK 10-50-300	BIMOTORIZED GROUP 3-300
133 60 0003	Freedom FTS 500	BRK 10-50-500	BIMOTORIZED GROUP 5-500

### Every FTS bench is delivered with:

- Reaction bar
- Kit adaptors
- Calibration certificates
- USB key with manual, product safety, etc

### FTS

- ✓ Touch screen monitor 18,5"
- ✓ Two USB ports
- ✓ Network port 10/100 Base-T RJ-45
- ✓ Connector for external transducers with automatic recognition
- ✓ Multilanguage software Data.Pro and SQnet+



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FTS Hybrid - Ed. 1 - EN

# FTS Hybrid

Power tools and automatic wrench certification

0.3 to 500 N·m up to 2 000 N·m with external transducer



- Compatible with all types of assembly tools
- Fulfil norms ISO 5393:2017, ISO 6789-1:2017, VDI/VDE 2645-2:2014
- Flexible, high performance and ergonomic
- Automatic and manual tools test
- Stand alone test with battery

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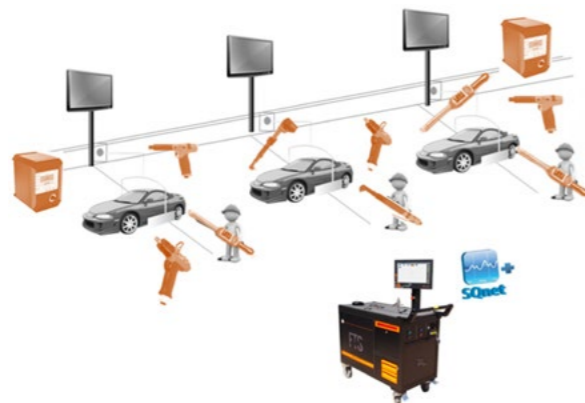
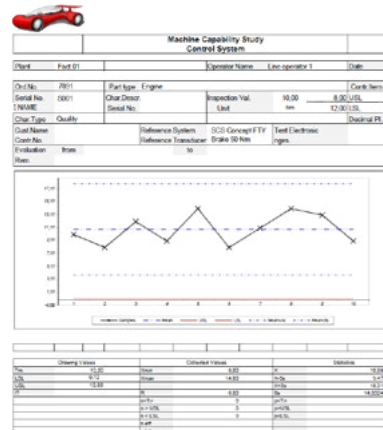
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# FTS - Global Overview

## ➤ A 360° quality solution

- ✓ Audit and manage all your assembly tools with ONLY one bench
- ✓ Test report referring to ISO and VDI Norms
- ✓ Tool checking alarm
- ✓ Route checking
- ✓ Print your test report
- ✓ Control and monitor the performance of your assembly tools
- ✓ Global overview of your assembly tools
- ✓ FTS bench allows you to connect an external transducer to check multi-spindle machines or pulse tools



## ➤ Customized report

## ➤ Route management



## ➤ Safety solution

The bench automatically detects if the torque set-up to check the wrench is compatible with the length of the reaction bar  
Our brakes automatically release if the torque applied is too high



Minimum length check by FTS



### Features

- Test of wrenches (electronic/digital, click), pneumatic, electric and battery tools, pulse tools (except impact wrenches)
- Torque accuracy : 0.5% of the read value
- Angle accuracy : +/-1° per 360°
- Joint simulation range for brake : 15° to 360°
- Max speed acceptable for brake : up to 2 000 rpm
- Local database with more than 256 Gb of capacity
- Print/export/curves
- Barcode reader to select assembly tools
- Statistic analysis
- Autonomy for up to 8 hours
- Motorized wheel (optional)
- Easy to maintain
- Comparative test capability
- Check your assembly tools before integration and during production with the same bench
- FTS bench can perform all types of control using the internal battery



# Hybrid bench FTS

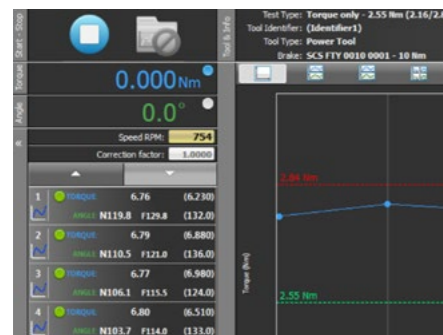
## AWT functionalities



Motorized transducer

## Wrench control and certification

- ✓ Automatic wrench test/report ISO 6789-1:2017 & VDI/VDE 2645-2:2014
- ✓ Automatic Cm/Cmk statistic analysis
- ✓ Compatible with electronic, slip and click wrench tools
- ✓ Automatic value comparison between testing device and bench
- ✓ Productivity
  - Improve your productivity with our automatic wrench test
  - Manage X/R chart and validate wrenches in production line



Automatic value comparison

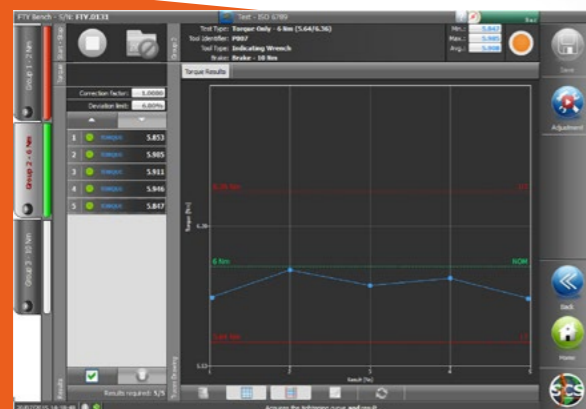
Example of ISO 6789:2017 test



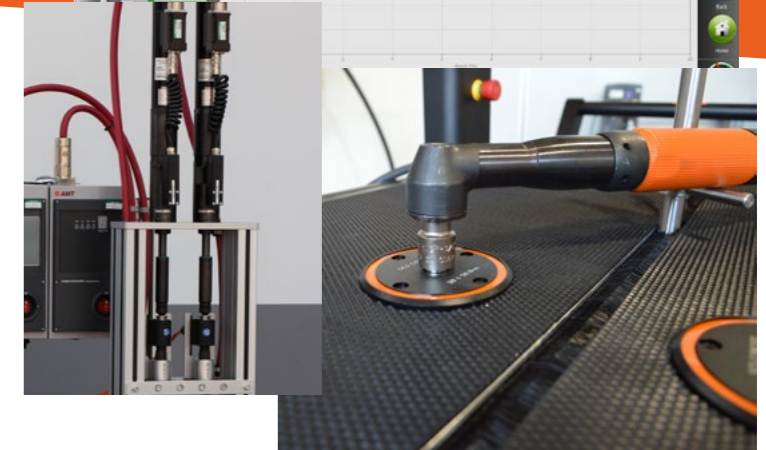
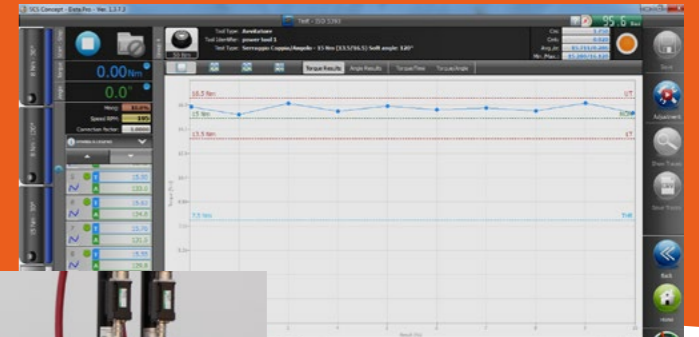
Group 1 →

Group 2 →

Group 3 →

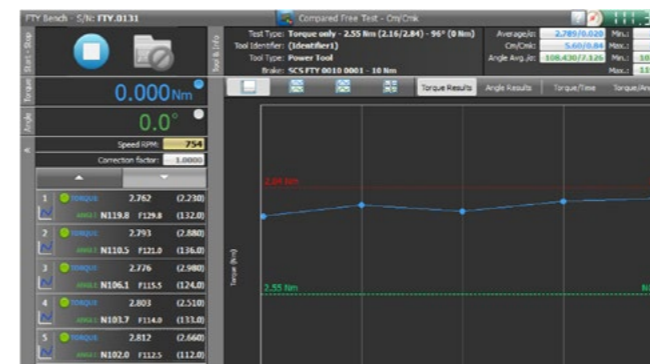
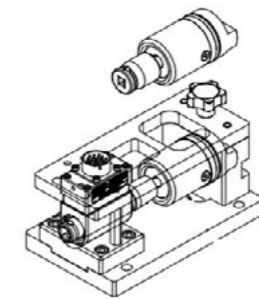


## FTY functionalities



## Power tools control and certification

- ✓ Dynamic Joint simulation to reproduce assembly joints
- ✓ Amazing Joint simulator allows you to conduct 50 tightenings in less than 2 minutes (Fastest breaking device of the market)
- ✓ Reproduce real joint behavior for testing power tools in real conditions and validate the multi-step program (according VDI/VDE 2645-2:2014)
- ✓ Compatible with all type of tools
  - Spindle with external rotary transducer
  - Impulse tools with our Freedom TH solution



## Cm / Cmk following ISO 5393

### Example of parametrization of a fastener to be simulated

