

# Calibration System for Hand Torque Tools **SCHATZ®-CALITEST**

**SCHATZ®**  
ADVANCED QUALITY



- Calibration range 0,5 N • m ... 1500 N • m
- Produces calibration certificates, tool histories and reminder lists
- Automatic calibration to ISO 6789
- Internationally recognized calibration standard for torque wrenches
- Multi-range sensor for rapid calibration

## Applications

The test stand is equipped with the necessary technical measuring capabilities and drive methods for the conduct of tests to ISO 6789 or others. The user can also program own test procedures as desired and conduct tests and calibration automatically.

The ISO 6789 test procedure distinguishes between torque wrenches with pre-set release and those with torque indicator and calculates a tolerance of 4 % or 6 % according to class, type and range. Calibration must be undertaken after every 5000 measurements and the measurement uncertainty of the calibration unit may only be max. 1 % of the reading. The ambient temperature is specified at 18°C to 28°C and the test comprises five measurements on 80% of the target data which must be obtained within 1 to 4 seconds. Calibration is carried on approx. 20 %, approx. 60 % and 100 % of the measurement range with increasing force and the adjustable wrench may only be adjusted upward from the lower setting.

## Description

The core of the test stand is the multi-range sensor. Specially developed for the calibration of torque wrenches with an uncertainty of less than 0.5% it provides for testing in the range of 15 N • m to 1500 N • m using one sensor. The system can be expanded with the 50 N • m unit or smaller ranges from 0.5 N • m to 50 N • m. The deviations are less than 0.5% of the reading shown. The calibration unit thus fulfils the requirements to ISO 6789 without the tester having to change the sensor for the relevant measuring range.

The system is built as an aluminium base frame with all round PETG protection. Each drive unit is designed for the described nominal size and consists of one high dynamic servo motor with multi-stage gear. Driving speeds are defined by the user. The mechanical support can be length- and height-adjusted for adaptation of torque wrenches.

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Dimensions	5413-5767/300	5413-5767/1000	5413-5767/1500
A	1215	2628	3328
B Working height	834	834	834
C	860	860	860
D Max. wrench length	1060	1857	2555
E	1600	1600	1600
F	980	980	980

50 N • m unit

G	734
H	370
I Max. wrench length	550

