Hegewald & Peschke
Meß- und Prüftechnik GmbH

Product information

Torsion testing device T-5000H

for uniaxial torsion tests

zertifiziert nach DIN EN ISO 9001
TÜV CERT
Zert. Nr. 08/100/9044/3

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The torsion testing device T-5000H is designed for uniaxial torsion tests. It can realize a maximum torque of 5000 Nm at a rotational speed of 2 rpm. The torsion axis is arranged horizontally. The system is based on a base frame made of welded steel profiles. Thus, a high torsional stiffness is achieved.
The working area is enclosed by a protective cover. The locking is ensured by magnetized holding while the test is in progress.

Technical data:

Max. Torque	5000 Nm
Measuring range	1 - 100% the nominal load
Torque resolution	±180,000 digits at 20ms integration time
Angular resolution	0.1°
Test speeds	0.05 – 2 rpm
Specimen dimensions	• Clamping range approx. Ø350 mm • Max. test space length between the mounting flanges: 1000 mm
Data processing	• Data transmission to PC: Ethernet (LAN) or USB • 50 Hz (standard), optionally higher data acquisition frequency • 3 free slots available for expansion cards for additional measurement and control channels
Connection conditions	3P/PE/400V/ 50Hz / (TN- mains) 4.0kW, 4m cable with plug 16CEE at the control container, (FI all-current sensitive), 5- 40°C, 2 0- 80 % humidity
Dimensions and weights:	• Unit 1350mm x 2350mm x 850mm (HxWxD), 750kg (with base frame, without protective cover) • Control container 750mm x 600mm x 900mm (HxWxD), 90kg
Supplied accessories	• Safety door with electrical monitoring • Manual operation with force-displacement display for manual positioning and stand-alone operation without PC
Necessary accessories	• Torque sensor *(42-030-521)* • Clamping fixtures or flanges for specimen mounting • PC+TFT • LabMaster testing software