

Universal Testing Machines

TS-1000

Semi-Automatic Universal Testing Machine 1000 kN

Tension, compression & bending

IS 1608

Semi-automatic 1000 kN universal testing machine with software, for tension, compression and transverse (bend) tests such as rebar tensile tests.

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Description

A 1000 kN universal testing machine with software for tension, compression and transverse tests, such as tensile tests on steel reinforcement bars.

It measures load from 0 to 1000 kN with 100 N resolution and is accurate to 1% between 20 and 1000 kN. Piston movement reads to 0.1 mm, the ram stroke is 250 mm and piston speed is adjustable from 0 to 80 mm/min.

Tensile clearance with the piston fully down is 50 to 850 mm, and the clear width between columns is up to 850 mm. The machine needs a 2.9 kW, 400 to 440 V three-phase supply and measures about 815 × 815 × 2415 mm.

Standard accessories are clamping jaws for round specimens (10 to 25 and 25 to 45 mm) and flat specimens (0 to 15 mm thick), a pair of 160 mm compression plates, and a transverse test table with adjustable rollers (160 mm wide, 50 mm diameter), up to 800 mm between supports and punch tops of 16 and 22 mm radius.

Supplied ready for use with operating manual and test certificate. Contact us for configuration options, accessories and calibration services.

Technical specifications

Capacity	1000 kN
Load resolution	100 N
Accuracy	±1% from 20 to 1000 kN
Piston resolution	0.1 mm
Ram stroke	250 mm
Piston speed	0–80 mm/min
Tensile clearance	50–850 mm
Clearance between columns	Up to 850 mm
Round specimen jaws	10–25 and 25–45 mm

Flat specimen jaws	0–15 mm thick
Compression plates	160 mm dia
Transverse rollers	160 mm wide, 50 mm dia, up to 800 mm span
Power	2.9 kW, 400–440 V, 3-phase
Size (L × W × H)	About 815 × 815 × 2415 mm