



**H001 SERIES
UNIVERSAL AUTOMATIC TENSILE TESTING MACHINES**

600 KN, 1000 KN, 1500 KN, 2000 KN CAPACITY

STANDARDS: UNI EN ISO 6892-1, 7500-1, 15630-1, 15630-2, 15630-3 | UNI EN 10080
ASTM A370, E8 | UNI 7676 (Wire Strands)

The machine is designed to meet requirements of works, laboratories and universities for quality control and research purposes. This system is suitable to test metallic round and flat rebars, to determine tension, compression, bending shear strength and to determine compression and flexure strength on concrete.



Hydraulic jaws for stronger clamping of the specimen

Hydraulic system with single pressure (for rounds and flat) or double pressure (for strands models) to grant stronger gripping

Remote, to control the lower crosshead movement for specimen positioning before testing

Hydraulic control unit for the application of the load during testing

LOAD FRAME FEATURES

- Models: 600 kN, 1000 kN, 1500 kN, 2000 kN Capacity. Other load capacities available on request.
- Hydraulic servo-controlled system regulating the load rate.
- Four thick columns and two lead screws grant high structural stiffness.
- Two different work spaces, the upper one for tension and the lower one for compression, bending and shearing, for a comfortable test execution.
- High precision load cell, class 1 according to ISO 376 standard, grants accurate force measurement.

FIRMWARE SPECIFICATIONS

- Fully automatic test execution with closed-loop digital feedback.
- Electronic control unit Servo-plus Progress with touch-screen colour display for management and analysis of data, test results, graphs.
- The Touch-Screen icon interface allows an easy set-up of parameters and an immediate test execution.
- The machine can also be connected to a PC for a remote test execution through suitable Software.
- LAN port for network connection and 2 USB ports for memory storage.

CYBER-PLUS PROGRESS

The ultimate digital controller for concrete, cement and steel testing. Its technology allows to control, acquire, display and transfer data while offering the possibility to connect Matest software for remote control and printout of results and certificates.

TECHNICAL SPECIFICATIONS | H001 SERIES

MODEL	H001A	H001B	H001BS*	H001CS*	H001DS*
Load capacity (kN) *** Both tension and compression	600	1000	1000	1500	2000
Load accuracy from 10% of the full scale (%)	± 1	± 1	± 1	± 1	± 1
Test speed (mm/min):					
Max	85	35	35	20	17
Min	0.5	0.5	0.5	0.5	0.5
Independent linearity of the piston stroke displacement (%)	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05
Max crosshead moving speed (mm/min)	200	200	200	200	200
Piston stroke (mm)	250	250	250	250	250
Horizontal clearance (mm)	580	570	600	840	840
Net distance between grips (without piston stroke, mm)	750	750	1000	1000	1000
Columns diameter	70	80	80	110	110
Dimensions of the grips for rounds and flats LxW (mm)	90x90	110x110	110x110	160x140	160x140
Length of the grips for strands			150 for 9.5 mm strands 225 for 12.7 and 15.2 mm strands		
Net distance between compression platens (without piston stroke, mm)	620	620	900	850	850
Dimensions of platens** (mm)	Ø 128x30	Ø 145x40	Ø 145x40	Ø 200x60	Ø 200x60
Load frame dimensions Height (including piston stroke, mm)	2550	2780	3050	3500	3500
Width (mm)	770	900	980	1300	1300
Depth (mm)	600	650	650	900	900
Frame weight (kg)	1780	2880	3050	8900	8900
Power supply	380V, 3ph, 50Hz				
Absorbed power (kW)	3.5	3.5	3.5	3.5	4.5

* Suitable also for wire strands. Other models for wire strands testing are available on request.

** Compression platens are already included in the supplied machine.

*** **Models with 1200 kN and 3000 kN capacities available on request.**