

H003N

Universal hydraulic servo-controlled machine 600 kN capacity with Touch-Screen Servo-Plus Evolution digital system, to perform static tensile tests
on metallic materials. STANDARDS: EN 10002 / ASTM A370 / EN ISO 6892, 7500-1

It basically consists of:

- Strong loading frame with a reading cell built into the piston
- Hydraulic Servo-Plus Evolution Touch-Screen system (technical details: see pag. 130; firmware details: see pag. 24), for the data acquisition, control and processing. The whole is built in a console.

The frame is designed to carry out tensile tests using the grips placed in the clamping heads. In the upper part, between the head and traverse, it is possible to carry out flexion, compression, bending, hardness, dishing tests, according to the International Standards by using the suitable (see accessories) devices.

The hydraulic servocontrolled unit regulates the load rate by the Computer. An emergency device stops the machine in any moment as per the International Safety Standards.

A control pedal situated on the frame governs the movement of the lower tensile head (excursion 0÷580mm with electric end of stroke switches) for an easier positioning of the specimen according to its length. The machine is supplied complete with loading frame, control console and bed frame, while the software (mod. H009), the extensometers (mod. H014 to H014-10) the grips and the printer **"are options and must be ordered separately"** according to the needs of the user.

TECHNICAL FEATURES:

Capacity	600kN
Max. crosshead stroke	200 mm
Max. distance between the jaws	465 mm
Width flexion joke	190 mm
Max. flexion knives distance	1000 mm
Compression plates light	235 mm
Load reading	Sensing by loading cell. Resolution 0,01% U.V.
Accuracy	Class I EN 10002-2 Only reading scale 1:1-1:20 U.V.
Stroke reading	Sensing by linear transducer Resolution 0,01 mm
Deformation reading	Sensing by electronic extensometer (accessory) Resolution 0,001 mm
Accuracy	Class B 2 (B 1 for base up to 50 mm) ASTM E83
Needed height	4050 mm
Frame weight	2600 kg approx.
Rack dimensions	610x630xh. 1600 mm
Power supply	230 V 1ph 50Hz 2kW

section H



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H003N with accessories

H003-99
KIT FOR MACHINE DELIVERY

The kit is composed by different mechanical devices to flatwise the machine allowing its transport. The amount of this kit is fully reimbursed to the customer if the kit is returned to Matest after the delivery.

MATEST

ACCESSORIES FOR MOD. H003N

ROUND AND FLAT GRIPS. One set consists of two double pairs that must be placed into the upper and lower tensile heads.

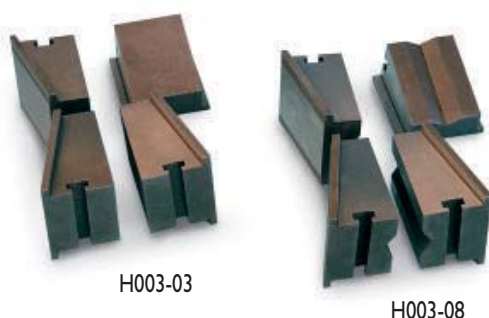
H003-03 Set of Grips for Flat specimens $2 \div 18$ mm and Round specimens $5 \div 12$ mm

H003-04 Set of Grips for Flat specimens $18 \div 36$ mm

H003-07 Set of Grips for Round specimens dia. $12 \div 24$ mm

H003-08 Set of Grips for Round specimens dia. $25 \div 40$ mm

C128 Graphic Printer A4 format, for the printing of the test Diagram or Certificate.



NOTE: for the software (H009N) and the extensometers (H014 \div H014-10) see pag. 335, 336.

ACCESSORIES FOR TESTS ON METALS:**H003-11 Flexure test**

STANDARD: UNI 559

The equipment is composed by a couple of lower bearers with adjustable supports and an upper blade.

Maximum load: 200 kN

Maximum distance between the lower bearers: 1000 mm

Width of the bearers: 120 mm

Diameter of the bearers: 50 mm

Weight: 70 kg

**H003-12 Bending test**

STANDARDS: UNI 564 / ASTM E290

The equipment is composed by a couple of lower bearers with adjustable supports and an upper blade.

Maximum load: 200 kN

Maximum distance between the lower bearers: 1000 mm

Width of the bearers: 120 mm

Diameter of the bearers: 50 mm

Weight: 70 kg

Note: bearers with different diameters are available on request.

H003-13 Compression test

STANDARD: UNI 558

The equipment is composed by an upper plate with seat ball assembly and by a lower plate.

Maximum load: 600 kN

Diameter of the compression plates: 90 mm

Weight: 25 kg

**H003-14 Test on electro welded wire nets**

Device for the seizing of electro welded wire nets; this equipment must be used with the grips for flat specimens.

Weight: 5 kg

ACCESSORIES FOR TESTS ON CONCRETE:**H003-21**

Compression test on concrete cube specimens, max 150 mm side.

The appliance is composed by:

An upper compression plate 287 mm. diameter complete with seat ball assembly. A lower compression plate 287 mm. diameter

Maximum distance between the compression plates: 185 mm.

Weight: 60 kg

H003-22

Flexure test on concrete beams with dimensions 100x100x400/500 mm. and 150x150x600/750 mm.

STANDARDS: EN 12390-5 / BS 1881:118 / ASTM C78, C293

AASHTO T97 / NF P18-407 / UNI 6133

Composed by two lower and one upper bearers

Maximum load: 200 kN

Maximum distance between the lower bearers: 1000 mm.

Width of the bearers: 160 mm.

Weight: 40 kg

