COMPRESSION/FLEXURAL TESTING MACHINES WITH DUAL MEASURING RANGE

TO TEST CEMENT AND MORTAR SPECIMENS, BRICKS, ROCKS, REFRACTORIES ETC.

STANDARDS: EN 196-1, EN 13286-41, EN 933-5, EN 1015-11 | ISO 679 | ASTM C109, C348, C349, C1194 | DIN 1164 | BS 4550 | GOST 26798-1

These testing machines foresee **a dual measuring range in the same testing chamber**. The two ranges can be used alternatively and are suitable to perform:

- Flexural tests on cement prisms 40.1x40x160 mm (selecting the low capacity range)
- Compression tests on portions of prism 40.1x40x160 mm broken in flexure, cubes side 40, 50, 70, 100 mm 2", cores with max. height of 180 mm (selecting the nominal range).

The measuring range 0 - 15kN can be also used for compression tests on specimens with expected low strength values.

Equipped with an electric microswitch to stop the piston after the specimen breakage, in order to avoid damages to the compression or flexure device.

MAIN FEATURES FOR ALL MODELS

- Two columns high stiffness frame.
- Max. vertical daylight between platens: 185 mm
- Horizontal daylight between columns: 175 mm
- Platens diameter: 153 mm
- Ram travel: 45 mm approx.
- Two pressure transducers granting the Class 1 starting from 10% of the scale for both the ranges.
- Supplied complete with lower compression platen and coupling piece to easily fix the compression devices.
- Power supply (motorized models): 230V 1ph 50Hz 750W
- Weight: 310 - 340 kg

E160D + E170

E161-01A + E172-01

COMPRESSION | FLEXURAL

MODEL	Dual range kN	Manual	Motorized	LOAD MEASURIG SYSTEM Gauge	Digitec mod. C108N (p. 219)	Autotec mod. C098N (p. 219)
E152	300/50	▼		▼		
E156	300/50		▼	▼		
E160D	500/15		▼		▼	
E160-01D	250/15		▼		▼	
E161-01A ★	250/15		▼			▼
E161-03A ★	500/15		▼			▼

COMPRESSION/FLEXURAL TESTING MACHINES WITH DUAL MEASURING RANGE

TO TEST CEMENT AND MORTAR SPECIMENS, BRICKS, ROCKS, REFRACTORIES ETC.

STANDARDS: EN 196-1, EN 13286-41, EN 933-5, EN 1015-11 | ISO 679 | ASTM C109, C348, C349, C1194 | DIN 1164 | BS 4550 | GOST 26798-1

CYBER-PLUS OR **SERVO-PLUS EVOLUTION** DIGITAL DISPLAY

INVERTER For a further improvement of energy efficiency and silent operation, (optional device code C099N). Technical details, p. 223, 312 NEW

BARCODE Scanner for specimen file/identification, (optional device code C099-01N). Details, p. 223 NEW

E160N + E170 **E161-01N + C104-04 + C127N + E172-01**

COMPRESSION | FLEXURAL			LOAD MEASURIG SYSTEM	
MODEL	Dual range kN	Motorized	Cyber-Plus Evolution mod. C109N (p. 224)	Servo-Plus Evolution mod. C104N (p. 224)
E160N	500/15	▼	▼	
E160-01N	250/15	▼	▼	
E161-01N *	250/15	▼		▼
E161-03N *	500/15	▼		▼

* Servo-Plus/Autotec models feature fully automatic power pack - electrovalve operated test start (no manual lever).

ACCESSORIES FOR FLEXURE | COMPRESSION MACHINES

E172-01 FLEXURE DEVICE for 40.1x40x160 mm mortar specimens. EN 1015-11, EN 196-1, EN/ISO 679 See p. 428

E172-01

E172-02 FLEXURE DEVICE for 40x40x160 mm mortar specimens. ASTM C348. See p. 428

E170 COMPRESSION DEVICE for portions of prism 40.1x40x160 mm broken in flexure. EN 196, EN/ISO 679, ASTM C349. See p. 428

E170

E171

E171 COMPRESSION DEVICE for cubes 50 mm and 2" side. ASTM C109, C1194. See p. 428

E171-01 COMPRESSION DEVICE for cubes 70.7 mm side. BS 4550. See p. 428

E171-01

Note: other models of flexure and compression devices with accessories are listed at p. 428

E161-05 DISTANCE PIECE, 50 mm high

E161-06 DISTANCE PIECE, 25 mm high

Note: the compression devices do not require any distance piece.

C127N GRAPHIC PRINTER on thermo-paper on board

C127-11 THERMO-PAPER roll for printer (pack of 10 rolls)

E161-12 SAFETY GUARDS, polycarbonate made, to CE Safety Directive, complete with hinges and lock

C121-51 STOP SWITCH on safety guards. See p. 317

C097-05 CLASS 1, starting from 1% of the full range. With a special calibration procedure it is possible to grant Class 1 practically on the full range of the compression machine.

E161-11 BENCH, to hold the compression frame.

E161-11

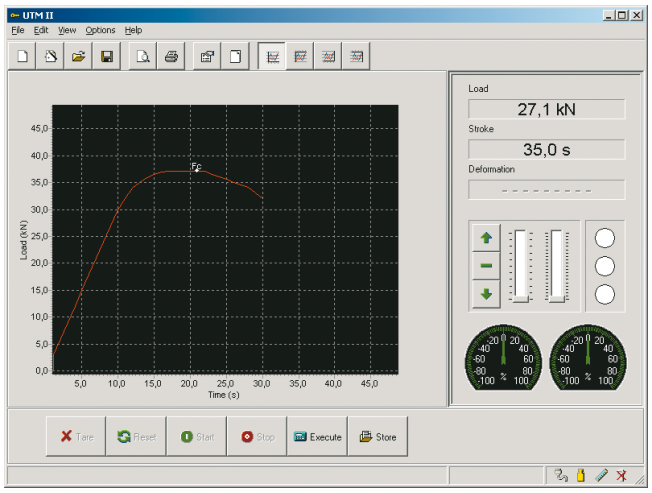
C115-01 TWO WAY HYDRAULIC VALVE, to activate a second frame. Technical details: see p. 318

C115-01

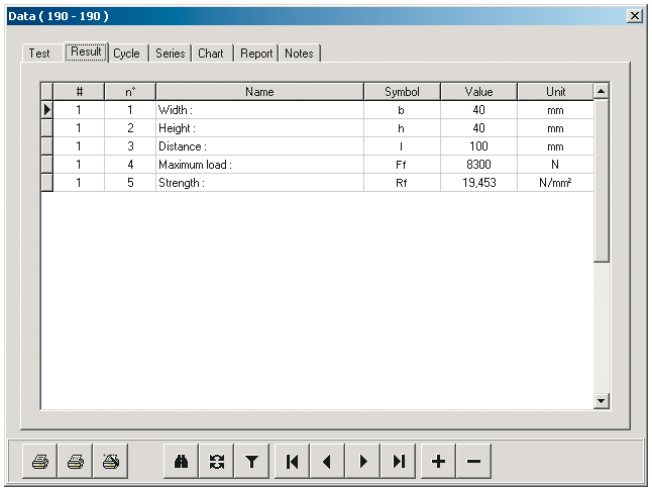
C106-10 FLEXURAL DEVICE FOR CONCRETE BEAMS 100x100x400 mm and 150x150x600 mm

C106-10

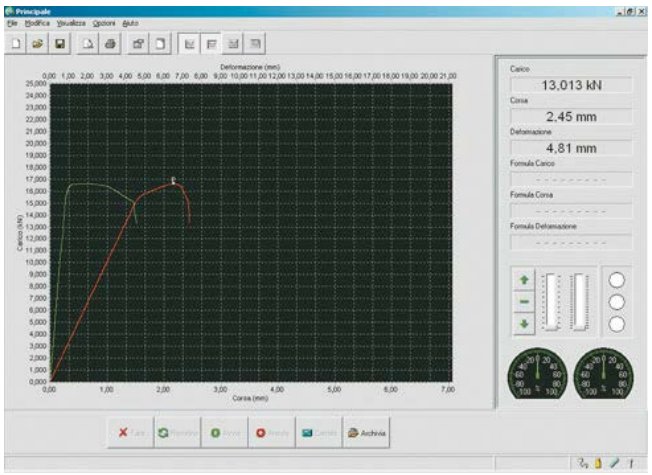
H009-01 PERSONAL COMPUTER, LCD 22" monitor, keyboard, mouse, cables. The supply of the PC includes the installation of the software



E163



E164



C123N

C104-04 CONSOLE HOUSING THE SERVO-PLUS EVOLUTION
The pump assembly "lined" with sound proofing material for noise reduction and the digital system are encased to enhance the design and look of the machine. Technical details: see p. 312

C104-04

C099N NEW
INVERTER DEVICE granting a lot of improvements. Applicable only on Cyber-Plus and Servo-Plus Evolution machines.
Technical details: see p. 223, 312

C099N

SOFTWARE for DIGITEC / AUTOTEC or CYBER / SERVO PLUS models	
C123 (N)*	SOFTWARE **Servonet** for remote control through PC
E163 (N)*	SOFTWARE for compression tests
E164 (N)*	SOFTWARE for flexural tests

Technical detail: see p. 18
(N)* for Cyber - Servo Plus models.