

COMPRESSION AND FLEXURAL TESTING MACHINE HIGH PERFORMANCE WITH DUAL TESTING CHAMBER AND TWO INDEPENDENT MEASURING RANGES 300 kN AND 15 kN WITH LOAD CELLS

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

INVERTER

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



This testing machine of high performance, advanced solutions and top quality components is equipped with two load chambers with two independent measuring ranges. It is suitable to perform:

- Flexural tests on cement prisms 40.1x40x160 mm (with the range 0 - 15 kN)
- 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 (with the range 0 - 300 kN) by using the suitable compression devices described in next pages (accessories E170 - E172-02)

The applied load is measured by two strain gage load cells (15kN and 300 kN) at high accuracy.

This solution eliminates the weights of the piston and lower compression platen, packing set frictions etc., granting very high accuracy (max. error within $\pm 0,5\%$). The load chamber 0 - 15 kN permits very accurate tests on specimens having low strength (both in compression and in flexure).

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

- Max. vertical daylight between platens: 189 mm
- Horizontal daylight between columns: 210 mm
- Platens diameter: 165 mm
- Ram travel: 35 mm approx.
- Accuracy: Class 1 starting from 10% of the scale for both the ranges.
- Safety guards to CE Directive, polycarbonate made, with hinges.
- Supplied complete with lower compression platens and coupling pieces to easily fix the compression devices (see accessories).
- Dimensions of the frame: 1300x400xh1500 mm approx.
- Power supply: 230V 1ph 50Hz 750W
- Weight: 400 kg

Note: range 0-15 kN can be increased on request up to 25 kN.



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



E183N + C127N with compression devices

COMPRESSION / FLEXURAL

LOAD MEASURIG SYSTEM

MODEL	Dual range kN	Cyber-Plus Evolution mod. C109N (p. 224)	Servo-Plus Evolution mod. C104N (p. 224)
E181N	300/15	▼	
E183N	300/15		▼

ACCESSORIES FOR DUAL CHAMBER 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 40.1x 40x160 mm broken in flexure. EN 196, EN/ISO 679, ASTM C349. See p. 428


**E170**

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

**E171**

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.

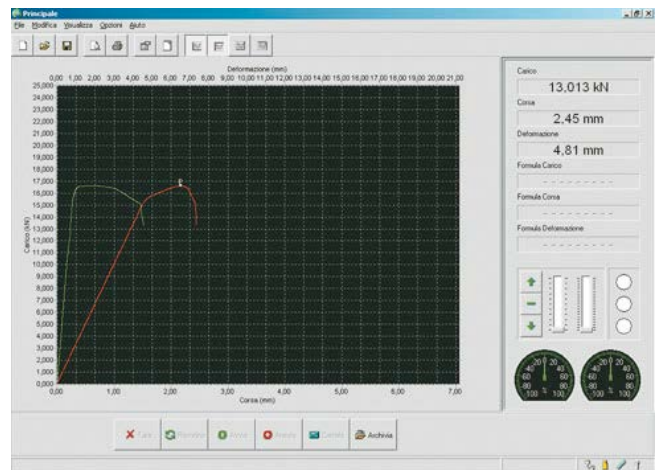
C127N GRAPHIC PRINTER on thermo-paper on board.

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


E183-10 SAFETY GUARDS complete with stop switch.

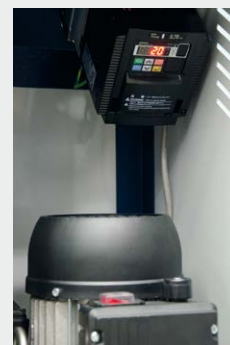
C097-05 CLASS 1, starting from 1% of the full range. With a special calibration procedure it is possible to grant Class 1 practically on the full range of the machine.

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

**C123N**

C099N INVERTER DEVICE granting a lot of improvements.

 **NEW** Applicable only on Cyber-Plus and Servo-Plus Evolution machines. Technical details: see p. 223, 312

**C099N**

SOFTWARE

C123N SOFTWARE **Servonet** for remote control through PC only for Servo-Plus

E163N SOFTWARE for compression tests

E164N SOFTWARE for flexural tests

Technical detail: see p. 18