



## C125 "COMPACT" SERIES COMPRESSION MACHINE 2000 kN (cubes-cylinders)

The machine is suitable to effectuate compression tests on:

- Cylindrical test pieces with diameter of 150 mm and height of 300 mm
- Cylindrical test pieces with diameter of 160 mm and height of 320 mm
- Cubic test pieces with side of 150 and 200 mm

The frame is assembled without welding through a feather edge and a fixing system, purposely studied and designed to guarantee exceptional life and stability in time. The housing of the load piston has been obtained in the lower element of the press. The extremely reduced dimensions of the machine allow an optimal use of the available space in carriage and storing conditions, by significantly improving the global economisation. The compression plates of all these machines are hardened and ground. The hydraulic cylinder and the piston are made of special steel and are ground; a stroke end device avoids the issue of the piston from the cylinder. Considered the high pressures that come into play during the compression test, a particular sealing ring that allows to minimize the frictions has been adopted and placed in a slot of the cylinder.

The oil-hydraulic unit is moved by an electrical motor with an incorporated switch and a pump that allows to apply the load evenly and constantly is placed in it. A device allows a quick approach of the plates to the specimen, with the automatic passage to the testing pressure in the moment of contact between the plates and the specimen. A special valve, with an external control, allows to effectuate a pre-regulation of the load gradient, in accordance with what is requested by the standard. It is supplied with a security valve of maximum pressure, to avoid the breaking of the load measurement system beyond the maximum capacity of the machine.

The visualization of the applied load is performed through  
**LBG UDI24PRO MICROPROCESSOR DIGITAL INDICATOR**

**The machine is supplied complete of:**

- **UDI24PRO** digital indicator
- N°1 upper plate, loosened and hardened
- N°1 lower plate, hardened
- ACCREDIA **calibration certificate**
- User manual

### TECHNICAL CHARACTERISTICS

2000 kN 0,1kN	Maximum capacity Resolution	449618 lbf 22lbf
1	Accuracy class in accordance with EN 12390-4 Appendix B	1
340 mm 275 mm	Max vertical clearance Horizzontal clearance	13.4 in. 10.8 in.
50 mm	Max Stroke piston	2.3 in.
504 kg	Weight	1111 lbf
650 x 460 x 1050 mm + 10 °C / + 35 °C	Dimensions width x depth x height Operating Temperature	25.6 x 18.1 x 41.3 in. + 50 °F / + 90°F
10 % / 80 %	Relative Umidity	
240V 1ph 50Hz + T	Power Supply*	
750 VA	Max Power Absorbed	

\* On request POWER SUPPLY : 115V 1ph 60Hz +T

C100-A105

REDUCTION PLATEN

With centering system and handgrips for removal. Made of steel

Thickness : 50 mm

C125-A101

SAFETY PROTECTION

Frontal Polycarbonate transparent

protection without limit switch.

LBG srl

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