



## C104

### "COMPACT" SERIES COMPRESSION MACHINE 1100 kN (cylinders)

AASHTO T22 ASTM C39 E4, EN 12390-4 Appendix B, NBR 12767,  
12142, 8522, 7680, 7186, 5739, DNER-MER091 NM101

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

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 supply included:

- UDI 16/4 PLUS (Z070) digital indicator
- N°1 upper plate, loosened and hardened
- N°1 lower plate, hardened
- SIT calibration certificate
- User manual

**The accessories to effect all the tests have to be ordered separately.**

## TECHNICAL CHARACTERISTICS

1100 kN	Maximum capacity	247290 lbf
1	Accuracy class ISO 7500-1 (from 2% to 100% f.s.)	1
340 mm 204 mm	Maximum vertical light Horizontal light	13.4 in. 8.0 in.
181.45 cm <sup>2</sup> 41 mm	Piston area Piston motion	2812.48 in. <sup>2</sup> 1.6 in.
260 kg	weight	573 lbf

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550 x 460 x 915 mm 240V 50Hz + T	Dimensions width x depth x height Power supply	21.7 x 18.1 x 36.0 in.
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## ACCESSORIES

	<p><b>C100-A103 STAND</b> Used for keeping Compact testing machines of 1100, 1500 and 2000 kN for testing cubes and cylinders, in working position. Dimensions: 510x400x600mm Weight: 40 kg.</p>
	<p><b>C100-A104 SAFETY GUARD</b> For use with 1100 kN Compact testing machine range.</p>
	<p><b>C100-A105 REDUCTION PLATEN</b> With centering system and handgrips for removal. Made of steel. Thickness: 50mm</p>
	<p><b>C100-A106 PIASTRA DI RIDUZIONE</b> Con sistema di centraggio e maniglie per la rimozione; costruita in acciaio. Spessore: 75 mm.</p>

## SPARE PARTS

	<p><b>C100-R100 MANUAL PUMP</b> Doublestage type, with automatic variation of delivery. Supplied complete with tank and oil. Dimensions: 150x200x360mm Weight: 20 kg.</p>
	<p><b>C100-R101 LOWER COMPRESSION PLATEN</b> Ground and hardened. For use with 1100 kN machines. Dimensions: 170x47mm(diam. x thickness).</p>
	<p><b>C100-R102 GASKETS</b> Complete set for hydraulic cylinders of 1100 Kn machines.</p>
	<p><b>C146 HYDRAULIC POWER PACK</b> Motorised, with 4 pumping elements, with manual adjustment of the load gradient, with rapid approach device and relief valve. Supplied complete with watertight tank and oil. Power supply: 1x220-240 V 50 Hz Dimensions: 200x380x440 mm. Weight: 47 kg.</p>
	<p><b>MICROPROCESSOR DIGITAL INDICATOR OF FORCES model UDI 16/4 PLUS</b> Watch data sheet under the heading "others equipment"</p>
	<p><b>Z066 PRESSURE TRANSDUCER</b> For compression testing machines with electronical load measurement. Measurement range: 0-700 Bar</p>