

DATA SHEET

MULTIPURPOSE 500-600 and 500-600/15 kN Compression-Flexure Cement Testing Frames



Double chamber 600/15 kN cement compression/flexure frame 50-C92220 with base 50-A19/B

Descripción General

These Multipurpose compression / flexural testers have been designed for various applications in which a limited maximum load is requested, together with a large testing space such as, for instance, compressive strength on lightweight concrete and soil-cement specimens using, if necessary, the suitable accessories. It is also ideal for testing high strength cement and refractory specimens. The large testing space is ideal for performing, with the suitable accessory, splitting tests and flexural tests on concrete specimens.

Two versions are available:

single compression station, 500 kN or 600 kN cap.:

â€for compression tests on low strength specimens.

double station model, 600/15 kN or 500/15 kN cap.:

extends the possible applications to flexural tests on cement and compression tests on low strength specimens.

Frames and compression platens

High rigidity: solid one piece steel frame. Spherical seat allows free alignment at the initial contact with the specimen. For compression platens see Technical Specifications. Pedestal not included. See accessories.

Machine/Frames precision Class. EN 12390-4, ASTM E74

All frames, when connected to a suitable control console, are supplied calibrated to Class 1 starting from 10% of load scale as specified in the Technical Specifications table. By special calibration procedures, it is possible to extend Class 1 load measurement accuracy (see Upgrading Option and Technical Specifications).

Safety features

All models includes: max. pressure valve to avoid machine overloading; piston travel limit switch; front door and rear transparent fragment guard on the compression station. Fragment guard for flexure station is available as optional (see Accessories).

Connection to control consoles

The 15 kN load piston of the double station models, when connected to PILOT and AUTOMAX automatic Control Systems, requires a pressure regulator which, however, is not necessary for connection to Automax E Modulus, MCC and Advantest 9 consoles. See Upgrading options.

Características Principales

- **High rigidity: solid one piece steel frame**
- **Universal compression testers**, in practice, suitable to house various accessories for testing cement, mortar, resins and other materials
- **Special calibration starting from few kilonewtons available on request** (see upgrading options) when connected to suitable control unit
- **large testing space**
- **Best quality/price ratio**

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Normativas

- ASTM C109
- EN 196-1
- ASTM C348
- ASTM C349

Specifications

Model 50-	C92Z00	C93Z00	C92Z10	C92Z20 ¹	C93Z20 ¹	C93Z20 ¹
Capacity, kN	600	600	500	15/600	15/600	15/600
Load measurement	Pressure transducer	Pressure transducer	Load cell	Load cell/ P. transducer	Load cell/ P.transducer	Load cell/ P.transducer
Max vertical daylight, mm	355	325	255	205/355	205/325	205/325
Horizontal daylight, mm	265	265	265	-/265	-/265	-/265
Platen dimension, mm	Dia. 165	Dia. 216	Dia. 165	Dia. 165	Dia. 216	Dia. 216
Surface hardness	55 HRC	55 HRC	55 HRC	55 HRC	55 HRC	55 HRC
Flatness tolerance, mm	0.03	0.03	0.03	0.03	0.03	0.03
Ram travel, mm	50	50	50	30/50	30/50	30/50
Class 1 range	60-600 kN	60-600 kN	50-500 kN	1.5-15 kN 60-600 kN	1.5-15 kN 60-600 kN	1.5-15 kN 60-600 kN
With 50- C0050/CAL	6-600 kN	15-600 kN	5-500 kN	6-600 kN	15-600 kN	5-500 kN
With 50- C0050/CAL5	-	-	-	0.5-15 kN	0.5-15 kN	0.5-15 kN
With 50- C0050/1CAL*	-	-	0.5-500 kN	-	-	-
Dimensions l x d x h, mm	445 x 400 x 1100 (base excl.)			700 X 400 X 1100 (base excl.)		
Weight approx., Kg	225	255	235	290	320	300

*Only when connected to Pilot Pro and Automax Pro PCS

¹When connected to AUTOMAX PRO or PILOT PRO PCS, the pressure regulator model 65-L1400/X5 has to be used.



600 kN cement compression frame 50-C92Z00 with base 50-A19/B

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500 kN cement compression frame 50-C92Z10 with base 50-A19/B



Double chamber 600/15 kN cement compression/flexure frame 50-C92Z40 with base 50-A19/B. Model fitted with load cell



Fragment guard for flexure station (50-C99/P) fitted with door switch (50-C50/P1)

Products

50-C92Z20

600/15 kN cap. double chamber hydraulic frame for testing cement, mortar, resin, hydraulically bound mixtures and other materials. 230 V, 50-60 Hz, 1 Ph

50-C92Z40

500/15 kN cap. double chamber hydraulic frame for testing cement, mortar, resin, hydraulically bound mixtures and other materials. 110 V, 60 Hz, 1 Ph

50-C93Z20

600/15 kN cap. double chamber hydraulic frame for testing cement, mortar, resin, hydraulically bound mixtures and other materials. 110 V, 60 Hz, 1 Ph

50-C92Z00

600 kN cap. hydraulic frame for testing cement, mortar, resin, hydraulically bound mixtures and other materials. 230 V, 50-60 Hz, 1 Ph.

50-C92Z10

500 kN cap. hydraulic frame for testing cement, mortar, resin, hydraulically bound mixtures and other materials. 110 V, 60 Hz, 1 Ph.

50-C93Z00

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600 kN cap. hydraulic frame for testing cement, mortar, resin, hydraulically bound mixtures and other materials. 230 V, 50-60 Hz, 1 Ph.

Accesorios y Consumibles

50-C0050/HRD2

Supply of the compression machine with dia.165mm platens complete with traceable certificate of hardness of testing platens surfaces (upper and bottom platen certification included). Available only for ordering with compression machine.

50-C0050/HRD3

Supply of the compression machine with dia.220 mm platens complete with traceable certificate of hardness of testing platens surfaces (upper and bottom platen certification included). Available only for ordering with compression machine.

65-L0050/HRD

Supply of the machine cement machines/frames L28xxx complete with traceable certificate of hardness of testing platens surfaces (one upper and one bottom platen certification included). Available only for ordering with machine.

50-A19/B

Base for frames and testing machines model 50-A12xxx

65-L1400/X5

Hydraulic pressure regulator for 15kN frames (both single and double chamber models) connected to PILOT and AUTOMAX control unit.

50-C9084

Distance piece dia 96 x 158 mm

65-L1000/20

Distance piece 165 mm dia. x 20 mm height.

65-L1000/30

Distance piece 165 mm dia. x 30 mm height.

65-L1000/40

Distance piece 165 mm dia. x 40 mm height.

65-L1000/68

Distance piece 165 mm dia. x 68 mm height.

50-C99/P

Rigid safety guard for the 15kN chamber of the multipurpose machines