

Universal flexural frames 150 kN cap., with adjustable vertical clearance

EN 1339 | EN 1340 | EN 12390-5 | ASTM C78 | ASTM C293

MAIN FEATURES

- For testing all standard concrete beams, kerbs, flagstones, pipes etc., using the suitable accessory
- Large testing space, adjustable vertical clearance
- Two versions: with pressure transducer and load cell granting high accuracy for testing low strength specimens
- Connectable to control consoles, Automax and Pilot 4 compression machines
- Piston travel limit switch included

GENERAL DESCRIPTION

This versatile flexural frame has been designed to test either standard concrete beams or other concrete products as the roomy testing place can accommodate large specimens. Furthermore, the possibility of adjusting the vertical clearance up to 400-500 mm, using the appropriate accessory, permits the testing on various products including concrete pipes. It is proposed in two versions: with pressure transducer and with load cell which grant high accuracy for testing low strength specimens. Supplied complete with piston travel limit switch and connection kit to the control console. The frames don't include the loading bearers that have to be ordered separately. See accessories.

TECHNICAL SPECIFICATIONS

Models	50-C1400/FR	50-C1401/FR
Max cap. kN	150	150
Load sensor	Pressure transducer	Load cell
Horizontal clearance [mm]	660	660
Max. vertical clearance [mm]	with C1400/8	483
	with C1400/3 (upper punch)	405
	with C1400/3 (upper bearer)	510
	with C1200/4 and lower bearers included in C1400/3	458
	with C1400/7	600
Distance between upper rollers (adjustable) mm	100, 150, 200, or single roller	100, 150, 200, or single roller
Distance between lower rollers (adjustable) mm	100 - 1200	100-1200
Piston travel mm	110	110
Overall dimensions (lxwxh) mm	860x1400x1500	860x1400x1500

DATA SHEET

Weight approx. kg

224

224

ORDERING INFO

50-C1400/FR

150 kN cap. flexural frame with adjustable vertical clearance, complete with pressure transducer and connection kit for separate control console. Bearers not included.

50-C1401/FR

150 kN cap. flexural frame with adjustable vertical clearance, complete with load cell and connection kit for separate control console. Bearers not included.

ACCESSORIES

50-C1400/3

Accessory for testing flagstones and kerbs to EN 1339 and EN 1340, including two loading supports and central loading roller 620 mm long, 40 mm dia. and top loading swivel jointed pad 40 mm dia. Weight approx.: 23 kg.

50-C1400/8

Upper and lower roller assembly for center and third point test on concrete beams 100x100x400/500 mm and 150x150x600/750 mm. Rollers 40 mm dia., 300 mm long to EN 12390-5 and ASTM C78. C293 Weight approx.: 45 kg.

50-C1400/7

Set of upper platen, spherically seated and lower platen 165 mm dia., for compression tests. Weight approx. 15 kg.

50-C1400/9

Upper loading swivel joint 40 mm dia for flexural tests to EN 1340 on concrete kerb units. Suitable for frame series 50-C120x. Lower rollers not included.

50-C1200/4

Accessory to complete 50-C1400/3 to perform the third point and centre point flexure test to EN 12390-5, including two rollers 30 mm long, 40 mm dia. (one removable for centre point test; support plate with cylindrical seat (roller span 100, 150 and 200 mm). Lower rollers not included. Weight approx.: 23 kg

UPGRADING

Special calibration procedures

The above upgrading is suitable if the frame is connected to automatic testing machines or control consoles.

DATA SHEET



50-C1400/FR with bearers model 50-C1400/8

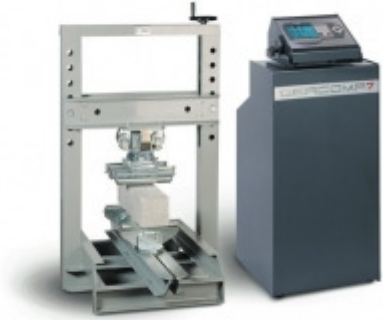


50-C1200/4 mounted on 50-C1400/FR



50-C1400/3 (upper punch)

DATA SHEET



50-C1400/FR with C1400/8 connected to MCC control console



50-C1401/BFR fitted with 50-C1400/8 bearers