

Pro-Ikon Concrete Compression Testing Machine Series

The fully Automatic Compression Testing Machine is designed to provide uniform testing of specified tests, thus ensuring repeatable test results while controlling the load rate speed by our specialized PID function Pre-programmed on the Controller and Hydraulic power system.

The Hydraulic power system is designed with high and low piston pumps to enable a rapid speed approach and to apply uniform flow to the cylinder at high pressure.

The unique design of a four column frame ensures that the frame stays ridged and stiff during high loads, and the upper platen align itself with the surface of the specimen when contact is made.

The Pre-programmed Tests conforming to the Standards, and can be selected on the control panel and also allow the operator to customize load rates between SANS and TMH1.

The machine is provided with a highly accurate pressure sensor to ensure accurate test results digitally.

The machine also featuring upper limit switches to ensure maximum piston travel.



KEY FEATURES

- Automatic control by an Advance Controller
- Unique programming PID. (Proportional–Integral–Derivative) for accurate load rates speed.
- Pre-programmed Compressive strength tests for Concrete, Cement and Bricks conforming to SANS and TMH1 (Cubes & Cylinders).
- ACV and 10% FACT tests for aggregates conforming to SANS and TMH1.
- Customizable load rate function to allow for different applications.
- 50 mm Spacer plates for adjusting height between upper and lower platens.
- Automatic Detection on failure load.
- Easy use and maintenance.
- Durable membrane touch button console.
- USB Connectivity for communication to PC Software, downloading of test log data and for uploading firmware updates.
- Loading capacity of 2000 kN (3000 kN & 4000 kN foote Test Models available on request.)
- Upper platen designed with a ball-seating to ensure self-alignment to the specimen.
- Machine Conforming to the EN 12390 Specification (Foote Test Models).

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**Pro-Ikon Concrete Compression Testing Machine (2000kN)
Model PGC-2002.F (Foote Tested)**

**Pro-Ikon Concrete Compression Testing Machine (2000 kN)
Model PGC -2002**

Specifications

MODEL	PGC - 2002.F (Foote Tested Model)	PGC - 2002
PISTON TRAVELLING DISTANCE	60 mm	60 mm
SPACER SIZES	Ø 300 X 50mm (4 off with 110mm day light)	Ø 250 X 50mm (4 off with 110mm day light)
Pre- programmed tests (Selectable conforming to Standards)	Compressive strength, ACV, 10% FACT	Compressive strength, ACV, 10% FACT
CAPACITY (LOAD)	2000 KN (Other capacities available on request)	2000 KN (Other capacities available on request)
SAMPLE SIZES (Standard)	100 - 200 mm Cubes and up to Ø 200mm Customized spacers available for different test applications	100 - 200 mm Cubes and up to Ø 200mm Customized spacers available for different test applications
LOAD RATE	10 - 1000 kN/min	10 - 1000 kN/min
POWER RATING	230V ± 10% 750 W approx.	230V ± 10% 750 W approx.
OVERALL DIMENSIONS (W X D X H)	850 x 550 x1300 mm	850 x 550 x1250 mm
WEIGHT APPROX	900 kg	750 kg

*** All accessories must be ordered separately**

OPTIONAL ACCESSORIES	Duosoft Controller Software, Cube Press Bag (Cover), SVC Voltage Stabiliser Output 220 V
Accessories for ACV Testing	ACV Mould and Plunger