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## High Stability 4 Pillar Compression Testing Machine ZI 2061

Standards: IS 14858:2000, EN 12390-3, EN 12390-4, BS 1881 and ASTM C39

Specification:

**Capacity:** 4000 & 5000 kN

The Labtest Automatic range of 4000 kN and 5000 kN capacity four column compression testing machines (**Cube Testing Machine**) have been designed for reliable and consistent testing of a wide range of specimens. These compression testers are the results of continuous research to upgrade the testing machines with the latest technologies and conform to the latest standards. These also meet the requirements of CE norms for health and safety of the operator.

Compression Testing Machines are supplied with EN compression platens as standard. Machines also comply with the ASTM C39 standard when used together with suitable platens.

Tests can be performed by either on Control Unit or on a computer with using free Labtest Software. The advantages of performing tests on computer with using Labtest Software, such as reporting, graphical output, etc.

The Labtest Automatic range of 4000 kN and 5000 kN capacity four column compression testing machines allow inexperienced operators to perform the tests. Once the machine has been switched on



and the specimen is positioned and centered by the help of centering apparatus.

The only required operations are:

- Setting test parameters, including pace rate (only required when the specimen type is changed).
- Pressing the START button on the control unit
- The machine automatically starts the rapid approach, when the specimen touches the upper platen the rapid approach is ended and starts loading at the pace rate that selected by user and stops once the specimen fails.
- Automatically saves the test parameters and test results

All models are supplied in Class 1 starting from 50 kN as standard IS 14858:2000, EN 12390-3, 12390-4, BS 1881 and ASTM C39. Labtest range of Semi-Automatic and Automatic Machines can be upgraded with option special calibration Class 1 starting from 1% of the full range.

This exceptional performance enables the machines to be used for a considerable number of applications including:

- Early age compression strength tests
- Flexural tests by using proper accessories
- Mortar (Cement) compression tests by using proper accessories
- Core with low diameter compression tests

The compression machines consist of a heavy duty four column frame, automatic hydraulic power pack with data acquisition and control system.

## **Safety Features**

- Maximum pressure valves to avoid machine overloading

- Front and rear transparent durable plexiglass guards
- Emergency stop button
- Software controlled maximum load value
- Piston travel limit switch

## Specifications:

Model		ZI 2061-1	ZI 2061-2
Capacity	kN	4000	5000
Standard	EN	12390-4	12390-4
The roughness value for texture of machine and auxiliary platens	µm	< 3.2	< 3.2
Lower platens dimensions	mm	Ø300	Ø300
Upper platens dimensions	mm	Ø300	Ø300
Maximum vertical clearance between platens	mm	520	520
Piston diameter	mm	400	420
Maximum piston movement	mm	100	120
Horizontal clearance	mm	495	515
Power	W	750	750
Oil capacity	Ltrs.	20	20
Maximum working pressure	Bar	315	350
Frame Dimensions	mm	805x710x1370	865x640x1555
Power Pack Dimensions	mm	605x455x1015	605x455x1015
Frame Weight	Kg.	2350	3150
Power Pack Weight	Kg.	150	150