



FULLY AUTOMATIC COMPRESSION MACHINE (HIGH STABILITY WELDED FRAME) 2000kN

Standard: EN 12390-3, EN 12390-4, ASTM C39, AASHTO T22

Compression And Flexural

Advanced upgraded model, high rigidity, compact & modern design. High end long lasting servo motor for super efficient speed control, low noise, low temperature & efficient energy consumption. Full protective cover with limit switch to prevent piston from over - travel.

FEATURES:-

- *High stability frame comply with BS EN 12390-4 provides perfect distribution of load over entire sample surface to produce consistent, maximum & relevant test results.
- *Powered by advanced servo motor for high efficiency control & energy saving.
- *Heavy duty industry TOUCH SCREEN operated monitor.
- *Extremely low sound & vibration during operation.
- *User friendly computerised system.
- *Original genuine parts low maintenance.
- *Free from foundation mounting.
- *Fully covered safety enclosed.

SOFTWARE SUPER TEST

- *User friendly one click RUN to operate & clear menu display indication.
- *Options to select number of decimal points to display for Load, Strength & Speed.
- *Real time display of Load against Time curve & options to display curve in test report.
- *Number of samples per report can be added up to 10 samples.
- *Unlimited savings of test result in huge computer storage memory.
- *User input of Test Number, Strength, Age, Sample Size (cube, block & cylinder) & Loading Speed.
- *Test report can be printed immediately after test with a printer connected.
- *Test report header can be input manually for various information such as customer information, weight, mixing ratio, project, etc.
- *Simple automatic or manual loading for calibration with auto correction function for load error.
- *Software consists of dual programmes for compression & flexural tests.

Technical Specifications :

Model Number	NL 4000 X / 034HS
Maximum Test Force	2000 kN
Test Force Measurement Range	40 - 2000
Range	The whole process is not divided into gears, equivalent to four gears
Relative Error of Test Force Indication	$\leq \pm 1\%$
Test Force Resolution	1/300000FS
Test Force & Control Range	2% - 4% FS/s
Speed Control Accuracy Error	$\leq \pm$ of the set value 2%
Parallelism of the Upper & Lower Beams of the Frame	< 0.02 mm
Frame Coaxiality	< 0.03 mm
Maximum Force Deformation of Frame	< 0.05 mm
Maximum Distance between Upper & Lower Platens	320 mm
Upper & Lower Platen Dimensions	Ø 295 mm
Parallelism of Upper & Lower Platens	≤ 0.01 mm
Flatness of Platen	< 0.016 mm

Pressure Plate Hardness	> 55 HRC
Pressure Plate Surface Roughness	< 0.8 μ m
Cylinder Coaxiality	< 0.02 mm
Cylinder Cylindricity	< 0.02 mm
Cylinder Roughness	< 0.8 μ m
Clearance between Cylinder and Piston	< 0.02 mm
Experimental Space	340 x 400 x 110 - 310 (mm)
Piston Movement Direction	Unidirectional
Piston Rising Maximum Speed	60 mm/min
Piston Maximum Stroke	80 mm
Matching Degree of Ball Seat	$\geq 90\%$
Contact Surface	
Ball Seat Surface Roughness	< 0.2 μ m
Dimension	920 x 500 x 1240 mm
Weight	850 kg
Power	220~240 V, 2.2 kW, 1 Ph, 50/60 Hz

Unit Consists Of :

Model Number	Accessories Description	Qty
NL 4000 X / HSP- 50	Standard Distance Piece Ø198 x 50 mm	3pcs

*1 Copy of Manual Instruction

Optional Accessories :

Model Number	Accessories Description
NL 4000 X / 002 - A 005	100 mm Cube Lower Platen Piece
NL 4000 X / 002 - A 006	Block Test Compression Platen Set
NL 4000 X / 016 - A 010	Portable Flexural Test Device
NL 4008 X / 001 - P 002	100/250 kN Hydraulic Flexural Frame
NL 4012 X / 003	Split Tensile Test Device
NL 4000 X / 005 - A 002	Computer Printer



TOUCH SCREEN DISPLAY