NEW 2023

FULLY AUTOMATIC COMPRESSION MACHINE (HIGH STABILITY WELDED FRAME)

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 withauto correction function for load error.
*Software consists of dual programes for compression & flexural tests.

Technical Specifications :

Model Number	NL 4000 X / 034HS	NL 4000 X / 035HS
Maximum Test Force	2000 kN	3000 kN
Measuring Range	40 - 2000	60 - 3000
Measuring Range	The whole process is not divided into gears, equivalent to four gears	
Relative Error of Test Force Indication	≤ ± 1%	
Test Force Resolution	1/300000FS	
Test Force & Control Range	2% - 4% FS/s	
Speed Control Accuracy Error	≤ ± 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	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 μm	
Cylinder Coaxiality	< 0.02 mm	
Cylinder Cylindricity	< 0.02 mm	
Cylinder Roughness	< 0.8 μm	
Clearance between Cylinder and Piston	< 0.02 mm	
Experimental Space (mm)	340 x 400 x 110 - 310	435 x 435 x 110 - 310
Piston Movement Direction	Undirectional	
Piston Rising Maximum Speed	60 mm/min	40 mm/min
Piston Maximum Stroke	80 mm	
Matching Degree of Ball Seat Contact Surface	≥ 90%	
Ball Seat Surface Roughness	< 0.2 μm	
Dimension	920 x 500 x 1240 mm	1010 x 590 x 1330 mm
Weight	850 kg	1200 kg
Power	220~240 V, 2.2 kW,1 Ph, 50/60 Hz	220~240 V, 2.2 kW, 1 Ph, 50/60 Hz

TOUCH SCREEN DISPLAY