NEW 2026



DIGIMATIC COMPRESSION MACHINE (WELDED FRAME) 2000 kN & 3000 kN

Standard : EN 12390-3/772-1/12390-4/12390-5/12390-6, ASTM C39/ C293, AASHTO T 22

Compression & Flexural

NL Digimatic Compression Machine are special designed extremely strong and oversized to grant high rigidity and stability during testing. With a fixed upper head carring a ball-seated platen and base platen with 150 mm cube centering guide pin. Equipped with analogue loading speed indication knob.

Key Features:

Enhanced Safety - Features a rigid front door and fully enclosed frame sides for added protection.
Time-Saving Efficiency - Incorporates a rapid approach system for taster operation.
Certified Stability - Successfully tested for stability in compliance with BS EN 12390-4 prior to delivery.
Over-Travel Protection - Includes a piston over-travel limit switch for added safety and durability.

Digimatic Multi Function Controller:

1) Instant MPa Strength Display - Automatically calculates strength based on specimen dimensions.
2) Real-Time Monitoring - Shows peak force (max value), live force readings, and graphical force-time plots.
3) Flexible Sample Selection - Built-in controller program supports various specimen types (beams, cubes, cylinder, irregular shapes, etc.).
4) High-Capacity Data Storage - Automatically saves up to 999,999 test results.
5) PC Connectivity - RS-232 port enables data transfer to a computer via dedicated software.
6) Printing Capability - Compatible with mini printers (sold separately) via LPT port.
7) Compact Display - 115 x 65 mm screen for clear, user-friendly operation.

Copyright 2026 NL Scientific Instruments Sdn. Bhd. All Rights Reserved. Revision 0(All information in this catalogue only for customer's reference and not for quotation. Design and dimension maybe change without prior notice.)

Technical Specifications :

Model Number	NL 4000D / WF2K	NL 4000D / WF3K
Max. Vertical Clearance	390 mm	375 mm
Max. Horizontal Clearance	395 mm	370 mm
Capacity	2000 kN	3000 kN
Piston Ram Diameter	250 mm	295 mm
Piston Ram Travel	50 mm	
Compression Platen Diameter	216 mm	295 mm
Compression Frame Wall Thickness	30 mm	30 mm
Low Range Sensitivity	0 - 999 x 0.01 kN	
High Range Sensitivity	1000 - 2000 x 0.1 kN	1000 - 3000 x 0.1 kN
Product Dimension (mm)	1110 (W) x 600 (D) x 1530 (H)	1275 (W) x 510 (D) x 1545 (H)
Packing Dimension (mm)	1245 (W) x 770 (D) x 1580 (H)	1410 (W) x 700 (D) x 1750 (H)
Approx. Product Weight	881 kg	1360 kg
Power	220~240 V, 750 W, 1 Ph, 50/60 Hz, 5 A	220~240 V, 750 W, 1 Ph, 50/60 Hz, 4.9 A

Set Consists Of :

Model Number	NL 4000D / WF2K
NL WF2K / D50	Distance Piece Ø158 x 50 mm
NL WF2K / D60	Distance Piece Ø158 x 85 mm
NL WF2K / D80	Distance Piece Ø158 x 100 mm

*1 Copy of Manual Instruction

Set Consists Of :

Model Number	NL 4000D / WF3K
NL 4000 HS / D50	Distance Piece Ø208 x 50 mm
NL 4000 HS / D60	Distance Piece Ø208 x 60 mm
NL 4000 HS / D80	Distance Piece Ø208 x 100 mm

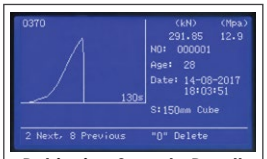
*1 Copy of Manual Instruction

Optional Accessories :

Model Number	Accessories Description
NL 4000 X / 002 – A 005	100 mm Cube Lower Platen Piece
SP-TL1610PC	Portable Micro Printer (Parallel)
NL HWPR – 44	High White Paper Roll 44mm x 33mm Dia. (5rolls/pack)
NL ERC – 05	Seamless Ribbon (Black)
NL DTSS	Data Tranfer Software c/w Cable Set
Can perform test result transfer to computer in excel format	



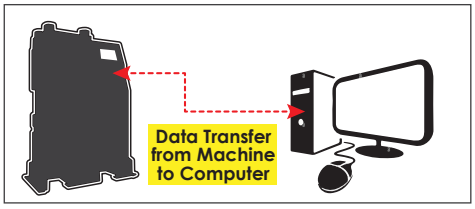
Main Screen Display



Retrieving Sample Result with Graph Display


NL 4000 X / 002 - A005


SP-TL 1610PC



Copyright 2026 NL Scientific Instruments Sdn. Bhd. All Rights Reserved. Revision 0(All information in this catalogue only for customer's reference and not for quotation. Design and dimension maybe change without prior notice.)