

DIGITAL CONTROLLER DIRECT RESIDUAL SHEAR BOX

Standard : ASTM D3080, BS 1377-7, AASHTO T236, NF P094 071-1/2

Shear Testing Machines

This machine is used to perform consolidation & shearing phase of a standard direct shear & residual shear test under automatic speed control. The system consists of a micro stepper motor to apply horizontal shear load to the soil specimen, at user-input shearing rate. The shear force readings are obtained from the proving ring at specified intervals of horizontal displacement shown on the touch screen display. Incorporated with limit sensors to prevent shear box from over-travel at forward or reverse motions.

Control panel come with LCD and keypad for manually setting and control, large liquid crystal display and with 16 keys membrane, reciprocating shear capability and times are setttable built-in 16 bit Data acquisition and control.



Technical Specifications :

Model Number	NL 5052 X / 005
Max. Shear Capacity	5000 N
Resolution	1 N
Adjustable Shear Speed	0.00001 to 9.99999 mm/min
Max. Shear Travel	25 mm
V.Load Beam Ratio	11:1,10:1,9:1
Approx. Dimension (LWH)	1300 mm x 400 mm x 1250 mm
Power Supply	240V, 1 pH, 50/60 Hz, 0.5 Hp
Approx. Weight	165 kg

Unit Consists Of :

Model Number	Parts Description	Qty
NL 5052 X / 005 – P001	60 X 60 mm Complete Shear Box Assemblies Unit	1no
NL 5052 X / 005 – P002	5kn Load Sensor Unit	1no
NL 5052 X / 005 – P003	12.7 x 0.001 mm Vertical Linear Potentiometric Displacement Transducer	1no
NL 5052 X / 005 – P004	25 X 0.001 mm Horizontal Linear Potentiometric Displacement Transducer	1no
NL 5052 X / 005 – P006	Hollow Punch & Tamper for 60x60 mm specimen	1no
NL 5044 X / 001 – A001	50 kg Set Of Weight	1set

*1 Copy of Manual Instruction

Optional Accessories :

Model Number	Parts Description
NL 5052 X / 005 - A001	100 x 100 mm Complete Shear Box Unit
NL 5052 X / 005 - A002	Hollow Punch & Tamper for 100 x 100 mm Specimen
NL 5052 X / WMS	Compatible Version Laptop with Window Modulus Software. Software Featured:- 1) Save datas, recall saved datas 2) View live data (with graph) 3) Calibration & adjustment 4) Control machine operation using laptop 5) Input specimen information in details for easy identification. 6) Shows other info that may not appear on the machine, example stress value, graph, etc.

