



ROCK SHEAR BOX APPARATUS

Standard: ASTM D5607, ISRM

This shear box has been designed to receive irregularly shaped samples with surfaces measuring up to 115 x 125 mm or cores with a maximum diameter of 102 mm. The lower half of the box is connected to two hydraulic rams which generate the shearing force (in both directions) and the upper half supports the ram that applies the load at a right angle to the failure surface. The horizontal and vertical actuators are connected to two manually-operated hydraulic pumps. During the test the normal stress and the shearing stress are read on two independent dial gauges calibrated in engineering units; if the measurement of the shear deformation is required an appropriate dial gauge can be mounted on the support.

Technical Specifications :

Model Number	NL 1030 X / 002
Loading Capacity	50 x 0.01 kN
Dimension (Shear Box Unit) (mm)	790 (L) x 300 (W) x 600 (H), 68 kg
Dimension (Control Kit) (mm)	440 (L) x 450 (W) x 350 (H), 25 kg
Packing Dimension (mm)	800 (L) x 800 (W) x 750 (H)
Approx. Weight (Complete Set)	133 kg



Unit Consists Of :

Model Number	Parts Description	Qty
NL 1030 X / 001 – P 001	Mould Former (7kg)	1no.
NL 1030 X / 002 – P 001	Control Kit Unit (Unit Consist of 2 units Digimatic Hydraulic Hand Pump, Pressure Maintenance Unit)	1unit
NL 1030 X / 002 – P 002	Pressure Maintainer Pump	1no.
NL 1030 X / 001 – P 003	Sample Casting Plaster (25 kg / pack)	1pack
NL 1030 X / 002 – P 004	Specimen Cradle	1no.
NL 7020 X / 011	Analogue Dial Indicator 12 x 0.002 mm (Vertical Displacement Measuring)	4nos.
NL 7020 X / 001	Analogue Dial Indicator 25 x 0.01 mm (Horizontal Movement Measuring)	1no.

*1 Copy of Manual Instruction