



SAND EQUIVALENT TEST APPARATUS

Standard: ASTM D2419, AASHTO T176

Assesment of Fines

This apparatus used to determine the relevant proportions in granular soils and fine aggregates.

Technical Specifications :

Model Number	NL 1000 X / 002
Dimension (mm)	550 (L) x 430 (W) x 140 (H)
Approx. Weight	8 kg.



Unit Consists Of :

Model Number	Parts Description	Qty
NL 1000 X / 002 - P 001	Acrylic Cylinder	4nos.
NL 1000 X / 002 - P 002	Rubber Stopper for Cylinder	1no.
NL 1000 X / 002 - P 003	Irrigator Tube with Stopcock & Siphon Assembly	1no.
NL 1000 X / 002 - P 004	Weighted Foot Assembly	1no.
NL 1000 X / 002 - P 005	Measuring Can Capacity 85 ± 5ml	1no.
NL 1000 X / 002 - P 006	Carrying Case	1no.
NL 1000 X / 002 - P 007	Concentrated Liquid Solution (60 ml / btl) - 10 btl / pck	1pck.
NL 7028 P / 006	Plastic Funnel with Wide Mouth	1no.
NL 7033 X / 001	Rubber Hose Clip	2nos.
NL 1000 X / 002 - P 008	Plastic Bottle 5 Litres	1no.
NL 7055 X / 003	Steel Ruler 500 mm Length	1no.

Optional Accessories :

Model Number	Parts Description
NL 1000 X / 002 - A 001	Clamp Stand Set
NL 7031 X / 001	Digital Stop Watch
NL 1010 S200 W - B061	Sieve Ø 200 mm, 4.75 mm Mesh
NL 7034 X / 006	Glass Thermometer (Mercury) 0 - 100°C x 1°C Div.
NL 1001 X / 001	Digimatic Sand Equivalent Shaker

**NEW
2019**



DIGIMATIC SAND EQUIVALENT SHAKER (TWIN CYLINDER)

Standard: EN 933-8, ASTM D2419, AASHTO T176, NF XP18-598, UNE 83131, UNI 8520-15, CNR N.27

Assessment of Fine

The digimatic sand equivalent shaker features consist of digimatic timer (can be set at required time) to increase accuracy and ease of operation compared to a spring-type timer. The unit provides adjustable oscillation speed to confirm with both ASTM & EN test procedure, also eliminating variations from one operator to the next. The unit provides a consistent and repeatable oscillation, eliminating variations from one operator to the next.

Technical Specifications :

Model Number	NL 1001 X / 003
Dimension (mm)	750 (L) x 445 (W) x 300 (H)
Speed Of Strokes	175 - 180 strokes / min (Adjustable)
Approx. Weight	29 kg
Power	220 VAC, 50 / 60 Hz, 0.8 A, 1 ph, 128 W

Optional Accessories :

Model Number	Parts Description
NL 1000 X / 002	Sand Equivalent Apparatus



NL 1000 X / 002



AGGREGATE IMPACT VALUE APPARATUS

Standard: BS 812, NF P18-574

Impact Value Determination of the Voids

The apparatus is used to determine the aggregate impact value which provides a relative measure of the resistance of an aggregate to sudden shock or impact. The apparatus construct by strong rigid steel frame and mechanical blow counter.

Technical Specifications :

Model Number	NL 1002 X / 001
Dimension (mm)	510 (L) x 300 (W) x 940 (H)
Approx. Weight	45kg

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1002 X / 001 - P 001	Cylindrical Mould Ø 102 x 50 mm	1no.
NL 1002 X / 001 - P 002	Cylindrical Measure Ø 75 x 50 mm	1unit
NL 1002 X / 001 - P 003	Tamping Rod	1no.

*1 Copy of Manual Instruction

Optional Accessories :

Model Number	Accessories Description
NL 1002 X / 001 - P 004	Cylindrical Mould Ø102 x 52 mm (NF Std)

AGGREGATE IMPACT VALUE APPARATUS

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Impact Value Determination of the Voids

The apparatus is used to determine the aggregate impact value which provides a relative measure of the resistance of an aggregate to sudden shock or impact. The apparatus construct by strong rigid steel frame and mechanical blow counter.

Technical Specifications :

Model Number	NL 1002 X / 002
Dimension (mm)	470 (L) x 330 (W) x 850 (H)
Approx. Weight	48 kg

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1002 X / 001 - P 001	Cylindrical Mould Ø 102 x 50 mm	1no.
NL 1002 X / 001 - P 002	Cylindrical Measure Ø 75 x 50 mm	1unit
NL 1002 X / 001 - P 003	Tamping Rod	1no.

*1 Copy of Manual Instruction

Optional Accessories :

Model Number	Accessories Description
NL 1002 X / 001 - P 004	Cylindrical Mould Ø102 x 52 mm (NF Std)



Equipped with bearing for smoother compaction drop





BULK DENSITY MEASURE

Standard: ASTM C29-09,
AASHTO T 19-04

Determination Of Loose

Steel constructed come with handles for capacity 1 litre and above. Used to determine the loose bulk density and void of aggregate.

Technical Specifications :

Model Number	Description
NL 1003 X / 001	Measure 1 Litre Capacity
NL 1003 X / 002	Measure 5 Litres Capacity
NL 1003 X / 003	Measure 10 Litres Capacity
NL 1003 X / 004	Measure 20 Litres Capacity
NL 1003 X / 005	Measure 14 Litres Capacity
NL 1003 X / 006	Measure 8 Litres Capacity
NL 1003 X / 007	Measure 28 Litres Capacity
NL 1003 X / 008	Measure 7 Litres Capacity
NL 1003 X / 009	Measure 30 Litres Capacity

Optional Accessories :

Model Number	Accessories Description
NL 5001 X / 001 – A 023	Straight Edge 300 x 30 x 3 mm
NL 7030 G / 002	Glass Plate 300 x 300 x 8 mm



GRID SIEVES SET

Standard: EN 933-3, UNI 8520-18,
NF P18-561, NLT 354

Sampler Grading

Grid Sieves Set used for determination of particle shape flakiness index of aggregate & suitable only for hand sieving. These are made using aluminium frames & stainless steel rods.

Technical Specifications :

Model Number	NL 1004 A / 001
Approx. Weight	56 kg

Optional Accessories :

Model Number	Accessories Description
NL 1004 A / 001 – A 001	Grid Sieve Receiver / Lid

Set Consists Of :

Model Number	Slot Width
NL 1004 A / 001 – P 001	2.50 mm
NL 1004 A / 001 – P 002	3.15 mm
NL 1004 A / 001 – P 003	4.00 mm
NL 1004 A / 001 – P 004	5.00 mm
NL 1004 A / 001 – P 005	6.30 mm
NL 1004 A / 001 – P 006	8.00 mm
NL 1004 A / 001 – P 007	10.0 mm
NL 1004 A / 001 – P 008	12.5 mm
NL 1004 A / 001 – P 009	16.0 mm
NL 1004 A / 001 – P 010	20.0 mm
NL 1004 A / 001 – P 011	25.0 mm
NL 1004 A / 001 – P 012	31.5 mm
NL 1004 A / 001 – P 013	40.0 mm
NL 1004 A / 001 – P 014	50.0 mm

NL 1005 X / 002



NL 1005 X / 001

PROFILOMETER (BARTON COMB)

Used for the evaluation of the roughness profile of rock sample.

Technical Specifications :

Model Number	NL 1005 X / 001	NL 1005 X / 002
Measuring Length	150 mm	300 mm
Approx.Weight	0.5 kg	1 kg
Dimension (L x W)	153 x 76 mm	307 x 153 mm

LABORATORY CORING MACHINE

Coring Machines

This portable coring machine used in laboratory to obtain cores from irregular rock samples.

Technical Specifications :

Model Number	NL 1006 X / 001
Tank Dimension (mm)	800 (L) x 700 (W) x 540 (H)
Maximum Coring	Ø 130 mm
Stroke Length	400 mm
Speed	750 r.p.m.
Approx. Weight	70 kg
Power	240 V, 1 ph, 50 / 60 Hz, 1000 W

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1006 X / 001 – P 001	Water Tank with Drain Valve c/w	1no.
	Clamping Device	1unit
NL 4006 X / 002	Coring Machine	1no.

*1 Copy of Manual Instruction

Optional Accessories :

Model Number	Accessories Description
NL 7018 X	Core Bit Set (Refer To NL 7018 X Group)





NL 1007 X / 001 - P003

SAND ABSORPTION APPARATUS

Standard: BS 812-137, AASHTO T84, ASTM C128, EN 1097-6)

Determination of Particle Density & Water Absorption

Used for the determination of the particle density of fine aggregates.

Technical Specifications :

Model Number	NL 1007 X / 001
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Set Consists Of :

Model Number	Parts Description	Qty
NL 1007 X / 001 – P 001	Cone	1no.
NL 1007 X / 001 – P 002	Tamper	1no.

Optional Accessories :

Model Number	Accessories Description
NL 1007 X / 001 – P 003	Pyknometer



ECO-SMARTZ LOS ANGELES RESISTANCE ABRASION APPARATUS

Standard: Standard: ASTM C131, EN 1097-2

Determination of the Resistance to Fragmentation

Upgraded version to ECO-SMARTZ system for more stable & better performance. This apparatus used to determine the resistance of aggregates to abrasion. The drum is rotated by a speed reducer driven by an electric motor, equipped with an automatic counter. Abrasive need to charge order separately.

Technical Specifications :

Model Number	NL 1008 X / 003
Drum Speed	31 - 33 RPM
Dimension (mm)	1070 (L) x 700 (W) x 910 (H)
Approx. Weight	250 kg
Power	220 V, 50 / 60 Hz, 750 W

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1008 X / 003 – P 001	Control Panel	1no.
NL 1008 X / 003 – P 002	Receiving Tray	1no.

*1 Copy of Manual Instruction

Optional Accessories :

Model Number	Accessories Description
NL 1008 X / 003 – A 001	Safety & Sound Proof Cabinet
NL 1008 X / 001 – A 002	ASTM, AASHTO, UNI, CNR Abrasive Charges (Set of 12 nos.)
NL 1008 X / 001 – A 003	EN Standard Abrasive Charges (Set of 12 nos.)



Opened Sound Proof Cabinet



Closed Sound Proof Cabinet

LABORATORY JAWS CRUSHER

Standard: ASTM C289

Sample Reduction

Jaw crusher are mainly used to break such kind of rocks and ores with medium hardness, they are important equipments in metallurgy, geology and building material and chemical industry for experiment and laboratory use.



Technical Specifications :

Model Number	NL 1009 X / 001	NL 1009 X / 002	NL 1009 X / 003
Max Feeding Size	40 mm	55 mm	125 mm
Output Grain Size	2 ~ 10 mm	3 ~ 20 mm	6 ~ 30 mm
Jaw Opening Size	60 x 100 mm	100 x 100 mm	125 x 150 mm
Production Rate	100 – 400 kg / hr	145 - 650 kg / hr	500 - 1900 kg / hr
Approx. Weight	125 kg	150 kg	235 kg
Dimension (mm)	680 (L) x 400 (W) x 1100 (H)	830 (L) X 430 (W) X 1100 (H)	1050 (L) X 430 (W) X 1100 (H)
Rotation Speed	1400 / 1750 r.p.m.	1420 / 1750 r.p.m	1400 / 1420 r.p.m
Power Supply	220 - 240 V, 50 / 60 Hz, 1 ph, 1.5 KW, 3.2 A	415 V, 50/60 Hz, 3 ph, 1.5 kW, 3.6 A	415 V, 50/60 Hz, 3 ph 3 kW, 7.2 A

NL 1009 X / 001

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1009 X / 001 – P 002	Specimen Tray	1no.

*1 Copy of Manual Instruction

Spare Parts :

Model Number	Accessories Description
NL 1009 X / 001 – P 001	Jaw Blade (Set of 2)

NL 1009 X / 002

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1009 X / 002 – P 002	Specimen Tray	1no.

*1 Copy of Manual Instruction

Spare Parts :

Model Number	Accessories Description
NL 1009 X / 002 – P 001	Jaw Blade (Set of 2)

NL 1009 X / 003

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1009 X / 003 – P 002	Specimen Tray	1no.

*1 Copy of Manual Instruction

Spare Parts :

Model Number	Accessories Description
NL 1009 X / 003 – P 001	Jaw Blade (Set of 2)

Nominal Aperture	Model for 200 mm Dia.	Model for 300 mm Dia.	Model for 450 mm Dia.
630 µm	NL1010 S200W - I036	NL1010 S300W - I036	NL1010 S450W - I036
710 µm	NL1010 S200W - I037	NL1010 S300W - I037	NL1010 S450W - I037
800 µm	NL1010 S200W - I038	NL1010 S300W - I038	NL1010 S450W - I038
850 µm	NL1010 S200W - I039	NL1010 S300W - I039	NL1010 S450W - I039
900 µm	NL1010 S200W - I040	NL1010 S300W - I040	NL1010 S450W - I040
1.00 mm	NL1010 S200W - I041	NL1010 S300W - I041	NL1010 S450W - I041
1.12 mm	NL1010 S200W - I042	NL1010 S300W - I042	NL1010 S450W - I042
1.18 mm	NL1010 S200W - I043	NL1010 S300W - I043	NL1010 S450W - I043
1.25 mm	NL1010 S200W - I044	NL1010 S300W - I044	NL1010 S450W - I044
1.40 mm	NL1010 S200W - I045	NL1010 S300W - I045	NL1010 S450W - I045
1.60 mm	NL1010 S200W - I046	NL1010 S300W - I046	NL1010 S450W - I046
1.70 mm	NL1010 S200W - I047	NL1010 S300W - I047	NL1010 S450W - I047
1.80 mm	NL1010 S200W - I048	NL1010 S300W - I048	NL1010 S450W - I048
2.00 mm	NL1010 S200W - I049	NL1010 S300W - I049	NL1010 S450W - I049
2.24 mm	NL1010 S200W - I050	NL1010 S300W - I050	NL1010 S450W - I050
2.36 mm	NL1010 S200W - I051	NL1010 S300W - I051	NL1010 S450W - I051
2.50 mm	NL1010 S200W - I052	NL1010 S300W - I052	NL1010 S450W - I052
2.80 mm	NL1010 S200W - I053	NL1010 S300W - I053	NL1010 S450W - I053
3.15 mm	NL1010 S200W - I054	NL1010 S300W - I054	NL1010 S450W - I054
3.35 mm	NL1010 S200W - I055	NL1010 S300W - I055	NL1010 S450W - I055
3.55 mm	NL1010 S200W - I056	NL1010 S300W - I056	NL1010 S450W - I056

BS 410 / ISO 3310 Parts 1 & 2

Table For Perforated Plate Square Hole - Millimeter (mm)

Nominal Aperture	Model for 200 mm Dia.	Model for 300 mm Dia.	Model for 450 mm Dia.
4.00 mm	NL1010 M200P - I001	NL1010 M300P - I001	NL1010 M450P - I001
4.50 mm	NL1010 M200P - I002	NL1010 M300P - I002	NL1010 M450P - I002
4.75 mm	NL1010 M200P - I003	NL1010 M300P - I003	NL1010 M450P - I003
5.00 mm	NL1010 M200P - I004	NL1010 M300P - I004	NL1010 M450P - I004
5.60 mm	NL1010 M200P - I005	NL1010 M300P - I005	NL1010 M450P - I005
6.30 mm	NL1010 M200P - I006	NL1010 M300P - I006	NL1010 M450P - I006
6.70 mm	NL1010 M200P - I007	NL1010 M300P - I007	NL1010 M450P - I007
7.10 mm	NL1010 M200P - I008	NL1010 M300P - I008	NL1010 M450P - I008
8.00 mm	NL1010 M200P - I009	NL1010 M300P - I009	NL1010 M450P - I009
9.00 mm	NL1010 M200P - I010	NL1010 M300P - I010	NL1010 M450P - I010
9.50 mm	NL1010 M200P - I011	NL1010 M300P - I011	NL1010 M450P - I011
10.0 mm	NL1010 M200P - I012	NL1010 M300P - I012	NL1010 M450P - I012
11.2 mm	NL1010 M200P - I013	NL1010 M300P - I013	NL1010 M450P - I013
12.5 mm	NL1010 M200P - I014	NL1010 M300P - I014	NL1010 M450P - I014
13.2 mm	NL1010 M200P - I015	NL1010 M300P - I015	NL1010 M450P - I015
14.0 mm	NL1010 M200P - I016	NL1010 M300P - I016	NL1010 M450P - I016
16.0 mm	NL1010 M200P - I017	NL1010 M300P - I017	NL1010 M450P - I017
18.0 mm	NL1010 M200P - I018	NL1010 M300P - I018	NL1010 M450P - I018
19.0 mm	NL1010 M200P - I019	NL1010 M300P - I019	NL1010 M450P - I019
20.0 mm	NL1010 M200P - I020	NL1010 M300P - I020	NL1010 M450P - I020
22.4 mm	NL1010 M200P - I021	NL1010 M300P - I021	NL1010 M450P - I021
25.0 mm	NL1010 M200P - I022	NL1010 M300P - I022	NL1010 M450P - I022
26.5 mm	NL1010 M200P - I023	NL1010 M300P - I023	NL1010 M450P - I023
28.0 mm	NL1010 M200P - I024	NL1010 M300P - I024	NL1010 M450P - I024
31.5 mm	NL1010 M200P - I025	NL1010 M300P - I025	NL1010 M450P - I025
35.5 mm	NL1010 M200P - I026	NL1010 M300P - I026	NL1010 M450P - I026
37.5 mm	NL1010 M200P - I027	NL1010 M300P - I027	NL1010 M450P - I027
40.0 mm	NL1010 M200P - I028	NL1010 M300P - I028	NL1010 M450P - I028
45.0 mm	NL1010 M200P - I029	NL1010 M300P - I029	NL1010 M450P - I029
50.0 mm	NL1010 M200P - I030	NL1010 M300P - I030	NL1010 M450P - I030
53.0 mm	NL1010 M200P - I031	NL1010 M300P - I031	NL1010 M450P - I031
56.0 mm	NL1010 M200P - I032	NL1010 M300P - I032	NL1010 M450P - I032
63.0 mm	NL1010 M200P - I033	NL1010 M300P - I033	NL1010 M450P - I033
71.0 mm	NL1010 M200P - I034	NL1010 M300P - I034	NL1010 M450P - I034
75.0 mm	NL1010 M200P - I035	NL1010 M300P - I035	NL1010 M450P - I035
80.0 mm	NL1010 M200P - I036	NL1010 M300P - I036	NL1010 M450P - I036

BS 410 / ISO 3310 Parts 1 & 2

Table For Perforated Plate Square Hole - Millimeter (mm)

Nominal Aperture	Model for 200 mm Dia.	Model for 300 mm Dia.	Model for 450 mm Dia.
90.0 mm	NL1010 M200P - I037	NL1010 M300P - I037	NL1010 M450P - I037
100 mm	NL1010 M200P - I038	NL1010 M300P - I038	NL1010 M450P - I038
106 mm	NL1010 M200P - I039	NL1010 M300P - I039	NL1010 M450P - I039
112 mm	NL1010 M200P - I040	NL1010 M300P - I040	NL1010 M450P - I040
125 mm	NL1010 M200P - I041	NL1010 M300P - I041	NL1010 M450P - I041

Table For Lid & Pan Sieves

8" Diameter	NL1010 8 LP
12" Diameter	NL1010 12 LP
450 mm Diameter	NL1010 450 LP

ASTM E 11:87

Table For Woven Mesh Sieves - Microns (µm) & Millimeter (mm)

Nominal Aperture	Model for 8" Dia.	Model for 12" Dia.
20 µm (No. 635)	NL1010 S8W - I001	NL1010 S12W - I001
25 µm (No. 500)	NL1010 S8W - I002	NL1010 S12W - I002
32 µm (No. 450)	NL1010 S8W - I003	NL1010 S12W - I003
38 µm (No. 400)	NL1010 S8W - I004	NL1010 S12W - I004
45 µm (No. 325)	NL1010 S8W - I005	NL1010 S12W - I005
53 µm (No. 270)	NL1010 S8W - I006	NL1010 S12W - I006
63 µm (No. 230)	NL1010 S8W - I007	NL1010 S12W - I007
75 µm (No. 200)	NL1010 S8W - I008	NL1010 S12W - I008
90 µm (No. 170)	NL1010 S8W - I009	NL1010 S12W - I009
106 µm (No. 140)	NL1010 S8W - I010	NL1010 S12W - I010
125 µm (No. 120)	NL1010 S8W - I011	NL1010 S12W - I011
150 µm (No. 100)	NL1010 S8W - I012	NL1010 S12W - I012
180 µm (No. 80)	NL1010 S8W - I013	NL1010 S12W - I013
212 µm (No. 70)	NL1010 S8W - I014	NL1010 S12W - I014
250 µm (No. 60)	NL1010 S8W - I015	NL1010 S12W - I015
300 µm (No. 50)	NL1010 S8W - I016	NL1010 S12W - I016
355 µm (No. 45)	NL1010 S8W - I017	NL1010 S12W - I017
425 µm (No. 40)	NL1010 S8W - I018	NL1010 S12W - I018
500 µm (No. 35)	NL1010 S8W - I019	NL1010 S12W - I019
600 µm (No. 30)	NL1010 S8W - I020	NL1010 S12W - I020
710 µm (No. 25)	NL1010 S8W - I021	NL1010 S12W - I021
850 µm (No. 20)	NL1010 S8W - I022	NL1010 S12W - I022
1.00 mm (No. 18)	NL1010 S8W - I023	NL1010 S12W - I023
1.18 mm (No. 16)	NL1010 S8W - I024	NL1010 S12W - I024
1.40 mm (No. 14)	NL1010 S8W - I025	NL1010 S12W - I025
1.70 mm (No. 12)	NL1010 S8W - I026	NL1010 S12W - I026
2.00 mm (No. 10)	NL1010 S8W - I027	NL1010 S12W - I027
2.36 mm (No. 8)	NL1010 S8W - I028	NL1010 S12W - I028
2.80 mm (No. 7)	NL1010 S8W - I029	NL1010 S12W - I029
3.35 mm (No. 6)	NL1010 S8W - I030	NL1010 S12W - I030
4.00 mm (No. 5)	NL1010 S8W - I031	NL1010 S12W - I031
4.75 mm (No. 4)	NL1010 S8W - I032	NL1010 S12W - I032
5.6 mm (No. 3½)	NL1010 S8W - I033	NL1010 S12W - I033
6.3 mm (¾ in)	NL1010 S8W - I034	NL1010 S12W - I034
6.7 mm (0.265 in)	NL1010 S8W - I035	NL1010 S12W - I035
8.0 mm (5/16 in)	NL1010 S8W - I036	NL1010 S12W - I036
9.5 mm (3/8 in)	NL1010 S8W - I037	NL1010 S12W - I037
11.2 mm (7/16 in)	NL1010 S8W - I038	NL1010 S12W - I038
12.5 mm (½ in)	NL1010 S8W - I039	NL1010 S12W - I039
13.2 mm (0.530 in)	NL1010 S8W - I040	NL1010 S12W - I040
16.0 mm (5/8 in)	NL1010 S8W - I041	NL1010 S12W - I041
19.0 mm (¾ in)	NL1010 S8W - I042	NL1010 S12W - I042
22.4 mm (7/8 in)	NL1010 S8W - I043	NL1010 S12W - I043
25.0 mm (1 in)	NL1010 S8W - I044	NL1010 S12W - I044
26.5 mm (1.06 in)	NL1010 S8W - I045	NL1010 S12W - I045
31.5 mm (1¼ in)	NL1010 S8W - I046	NL1010 S12W - I046
37.5 mm (1½ in)	NL1010 S8W - I047	NL1010 S12W - I047
45.0 mm (1¾ in)	NL1010 S8W - I048	NL1010 S12W - I048
50.0 mm (2 in)	NL1010 S8W - I049	NL1010 S12W - I049
53.0 mm (2.12 in)	NL1010 S8W - I050	NL1010 S12W - I050
63.0 mm (2½ in)	NL1010 S8W - I051	NL1010 S12W - I051
75.0 mm (3 in)	NL1010 S8W - I052	NL1010 S12W - I052
90.0 mm (3½ in)	NL1010 S8W - I053	NL1010 S12W - I053
100 mm (4 in)	NL1010 S8W - I054	NL1010 S12W - I054
106 mm (4.24 in)	NL1010 S8W - I055	NL1010 S12W - I055
125 mm (5 in)	NL1010 S8W - I056	NL1010 S12W - I056

INTERNATIONAL QUALITY TEST SIEVES

Standard: BS 410 /
I.S.O.3310 parts 1 & 2,
ASTM E11:87

Sampler Grading

NL International Quality Test Sieves available in 200 mm, +450 mm, 8" & 12" diameter with stainless steel body & either perforated plate or woven wire cloth mesh. The advantages of these test sieves design are laser label, no cutting edge, no material lodged, hidden mesh welding & flat mesh with uniform tension around the whole test sieves circumference. Certificate of compliance supplied with every test sieve. All 200 mm & 8" test sieves are supplied at full height 50 mm from top edge to the mesh while for 300 mm & 12" test sieves are supplied at full height 75 mm from the top edge.



BS 410 / ISO 3310 Parts 1 & 2

Table For Woven Mesh Sieves - Microns (µm) & Millimeter (mm)

Nominal Aperture	Model for 200 mm Dia.	Model for 300 mm Dia.	Model for 450 mm Dia.
20 µm	NL1010 S200W - I001	NL1010 S300W - I001	-
25 µm	NL1010 S200W - I002	NL1010 S300W - I002	-
32 µm	NL1010 S200W - I003	NL1010 S300W - I003	NL1010 S450W - I003
36 µm	NL1010 S200W - I004	NL1010 S300W - I004	NL1010 S450W - I004
40 µm	NL1010 S200W - I005	NL1010 S300W - I005	NL1010 S450W - I005
45 µm	NL1010 S200W - I006	NL1010 S300W - I006	NL1010 S450W - I006
50 µm	NL1010 S200W - I007	NL1010 S300W - I007	NL1010 S450W - I007
56 µm	NL1010 S200W - I008	NL1010 S300W - I008	NL1010 S450W - I008
63 µm	NL1010 S200W - I009	NL1010 S300W - I009	NL1010 S450W - I009
71 µm	NL1010 S200W - I010	NL1010 S300W - I010	NL1010 S450W - I010
75 µm	NL1010 S200W - I011	NL1010 S300W - I011	NL1010 S450W - I011
80 µm	NL1010 S200W - I012	NL1010 S300W - I012	NL1010 S450W - I012
90 µm	NL1010 S200W - I013	NL1010 S300W - I013	NL1010 S450W - I013
100 µm	NL1010 S200W - I014	NL1010 S300W - I014	NL1010 S450W - I014
106 µm	NL1010 S200W - I015	NL1010 S300W - I015	NL1010 S450W - I015
112 µm	NL1010 S200W - I016	NL1010 S300W - I016	NL1010 S450W - I016
125 µm	NL1010 S200W - I017	NL1010 S300W - I017	NL1010 S450W - I017
140 µm	NL1010 S200W - I018	NL1010 S300W - I018	NL1010 S450W - I018
150 µm	NL1010 S200W - I019	NL1010 S300W - I019	NL1010 S450W - I019
160 µm	NL1010 S200W - I020	NL1010 S300W - I020	NL1010 S450W - I020
180 µm	NL1010 S200W - I021	NL1010 S300W - I021	NL1010 S450W - I021
200 µm	NL1010 S200W - I022	NL1010 S300W - I022	NL1010 S450W - I022
212 µm	NL1010 S200W - I023	NL1010 S300W - I023	NL1010 S450W - I023
224 µm	NL1010 S200W - I024	NL1010 S300W - I024	NL1010 S450W - I024
250 µm	NL1010 S200W - I025	NL1010 S300W - I025	NL1010 S450W - I025
280 µm	NL1010 S200W - I026	NL1010 S300W - I026	NL1010 S450W - I026
300 µm	NL1010 S200W - I027	NL1010 S300W - I027	NL1010 S450W - I027
315 µm	NL1010 S200W - I028	NL1010 S300W - I028	NL1010 S450W - I028
355 µm	NL1010 S200W - I029	NL1010 S300W - I029	NL1010 S450W - I029
400 µm	NL1010 S200W - I030	NL1010 S300W - I030	NL1010 S450W - I030
425 µm	NL1010 S200W - I031	NL1010 S300W - I031	NL1010 S450W - I031
450 µm	NL1010 S200W - I032	NL1010 S300W - I032	NL1010 S450W - I032
500 µm	NL1010 S200W - I033	NL1010 S300W - I033	NL1010 S450W - I033
560 µm	NL1010 S200W - I034	NL1010 S300W - I034	NL1010 S450W - I034
600 µm	NL1010 S200W - I035	NL1010 S300W - I035	NL1010 S450W - I035
630 µm	NL1010 S200W - I036	NL1010 S300W - I036	NL1010 S450W - I036
710 µm	NL1010 S200W - I037	NL1010 S300W - I037	NL1010 S450W - I037
800 µm	NL1010 S200W - I038	NL1010 S300W - I038	NL1010 S450W - I038
850 µm	NL1010 S200W - I039	NL1010 S300W - I039	NL1010 S450W - I039
900 µm	NL1010 S200W - I040	NL1010 S300W - I040	NL1010 S450W - I040
1.00 mm	NL1010 S200W - I041	NL1010 S300W - I041	NL1010 S450W - I041
1.12 mm	NL1010 S200W - I042	NL1010 S300W - I042	NL1010 S450W - I042
1.18 mm	NL1010 S200W - I043	NL1010 S300W - I043	NL1010 S450W - I043
1.25 mm	NL1010 S200W - I044	NL1010 S300W - I044	NL1010 S450W - I044
1.40 mm	NL1010 S200W - I045	NL1010 S300W - I045	NL1010 S450W - I045
1.60 mm	NL1010 S200W - I046	NL1010 S300W - I046	NL1010 S450W - I046
1.70 mm	NL1010 S200W - I047	NL1010 S300W - I047	NL1010 S450W - I047
1.80 mm	NL1010 S200W - I048	NL1010 S300W - I048	NL1010 S450W - I048
2.00 mm	NL1010 S200W - I049	NL1010 S300W - I049	NL1010 S450W - I049
2.24 mm	NL1010 S200W - I050	NL1010 S300W - I050	NL1010 S450W - I050
2.36 mm	NL1010 S200W - I051	NL1010 S300W - I051	NL1010 S450W - I051
2.50 mm	NL1010 S200W - I052	NL1010 S300W - I052	NL1010 S450W - I052
2.80 mm	NL1010 S200W - I053	NL1010 S300W - I053	NL1010 S450W - I053
3.15 mm	NL1010 S200W - I054	NL1010 S300W - I054	NL1010 S450W - I054
3.35 mm	NL1010 S200W - I055	NL1010 S300W - I055	NL1010 S450W - I055
3.55 mm	NL1010 S200W - I056	NL1010 S300W - I056	NL1010 S450W - I056

TEST SIEVES

Standard: BS 410:1986

Sampler Grading

Test sieves available in 200 & 300 mm diameter with stainless steel body & either perforated plate or woven wire cloth mesh. A clear rigid design of minimum weight and free from corners where the material could be lodged. An essential feature of our test sieves is flat & uniform mesh with permanent tension round the whole circumference.



Scan To View
Full Catalogue



BRITISH STANDARDS SIEVES

Material: Stainless Steel (BS 410:1986)

Nominal Aperture	Model for 200 Diameter	Model for 300 Diameter
20	NL1010 S200W - B001	NL1010 S300W - B001
25	NL1010 S200W - B002	NL1010 S300W - B002
32	NL1010 S200W - B003	NL1010 S300W - B003
36	NL1010 S200W - B004	NL1010 S300W - B004
38	NL1010 S200W - B005	NL1010 S300W - B005
40	NL1010 S200W - B006	NL1010 S300W - B006
45	NL1010 S200W - B007	NL1010 S300W - B007
50	NL1010 S200W - B008	NL1010 S300W - B008
53	NL1010 S200W - B009	NL1010 S300W - B009
56	NL1010 S200W - B010	NL1010 S300W - B010
63	NL1010 S200W - B011	NL1010 S300W - B011
71	NL1010 S200W - B012	NL1010 S300W - B012
75	NL1010 S200W - B013	NL1010 S300W - B013
80	NL1010 S200W - B014	NL1010 S300W - B014
90	NL1010 S200W - B015	NL1010 S300W - B015
100	NL1010 S200W - B016	NL1010 S300W - B016
106	NL1010 S200W - B017	NL1010 S300W - B017
112	NL1010 S200W - B018	NL1010 S300W - B018
125	NL1010 S200W - B019	NL1010 S300W - B019
140	NL1010 S200W - B020	NL1010 S300W - B020
150	NL1010 S200W - B021	NL1010 S300W - B021
160	NL1010 S200W - B022	NL1010 S300W - B022
180	NL1010 S200W - B023	NL1010 S300W - B023
200	NL1010 S200W - B024	NL1010 S300W - B024
212	NL1010 S200W - B025	NL1010 S300W - B025
224	NL1010 S200W - B026	NL1010 S300W - B026
250	NL1010 S200W - B027	NL1010 S300W - B027
280	NL1010 S200W - B028	NL1010 S300W - B028
300	NL1010 S200W - B029	NL1010 S300W - B029
315	NL1010 S200W - B030	NL1010 S300W - B030
355	NL1010 S200W - B031	NL1010 S300W - B031
400	NL1010 S200W - B032	NL1010 S300W - B032
425	NL1010 S200W - B033	NL1010 S300W - B033
450	NL1010 S200W - B034	NL1010 S300W - B034
500	NL1010 S200W - B035	NL1010 S300W - B035
560	NL1010 S200W - B036	NL1010 S300W - B036
600	NL1010 S200W - B037	NL1010 S300W - B037
630	NL1010 S200W - B038	NL1010 S300W - B038
710	NL1010 S200W - B039	NL1010 S300W - B039
800	NL1010 S200W - B040	NL1010 S300W - B040
850	NL1010 S200W - B041	NL1010 S300W - B041
900	NL1010 S200W - B042	NL1010 S300W - B042

Table For Woven Wire Mesh Sieves - Millimeter (mm)

Nominal Aperture	Model for 200 Diameter	Model for 300 Diameter
1.00	NL1010 S200W - B043	NL1010 S300W - B043
1.12	NL1010 S200W - B044	NL1010 S300W - B044
1.18	NL1010 S200W - B045	NL1010 S300W - B045
1.25	NL1010 S200W - B046	NL1010 S300W - B046
1.40	NL1010 S200W - B047	NL1010 S300W - B047
1.60	NL1010 S200W - B048	NL1010 S300W - B048
1.70	NL1010 S200W - B049	NL1010 S300W - B049
1.80	NL1010 S200W - B050	NL1010 S300W - B050
2.00	NL1010 S200W - B051	NL1010 S300W - B051
2.24	NL1010 S200W - B052	NL1010 S300W - B052
2.36	NL1010 S200W - B053	NL1010 S300W - B053
2.50	NL1010 S200W - B054	NL1010 S300W - B054
2.80	NL1010 S200W - B055	NL1010 S300W - B055
3.15	NL1010 S200W - B056	NL1010 S300W - B056
3.35	NL1010 S200W - B057	NL1010 S300W - B057
3.55	NL1010 S200W - B058	NL1010 S300W - B058

Table For Lid & Pan Sieves

Model for 200 Diameter	Model for 300 Diameter
NL1010 S200P - B001	NL1010 S300P - B001

Stainless Steel Wash Sieve

200 mm Diameter x 200 mm High

Model No	Aperture
NL 1037 S200 - WS1	2 mm
NL 1037 S200 - WS2	75 µm
NL 1037 S200 - WS3	63 µm

Optional Accessories :

Model No	Accessories Description
NL 7041 X / 004	Sieve Brush - Double End Brass / Nylon
NL 7041 X / 005	Sieve Brush - Double End Soft / Hard Nylon
NL 7041 X / 008	Sieve Brush - Double End Round Soft / Hard Nylon
NL 1010 X / SR1	Test Sieve Shelves

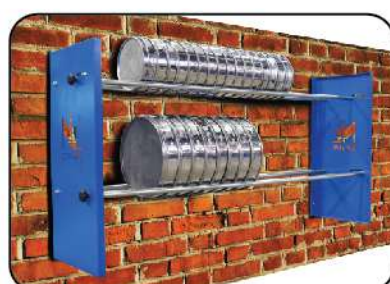
Table For Perforated Plate (Square Holes) - Millimeter (mm)

Nominal Aperture	Model for 200 Diameter	Model for 300 Diameter
4.00	NL1010 S200Q - B002	NL1010 S300Q - B002
4.50	NL1010 S200Q - B003	NL1010 S300Q - B003
4.75	NL1010 S200Q - B004	NL1010 S300Q - B004
5.00	NL1010 S200Q - B005	NL1010 S300Q - B005
5.60	NL1010 S200Q - B006	NL1010 S300Q - B006
6.30	NL1010 S200Q - B007	NL1010 S300Q - B007
6.70	NL1010 S200Q - B008	NL1010 S300Q - B008
7.10	NL1010 S200Q - B009	NL1010 S300Q - B009
8.00	NL1010 S200Q - B010	NL1010 S300Q - B010
9.00	NL1010 S200Q - B011	NL1010 S300Q - B011
9.50	NL1010 S200Q - B012	NL1010 S300Q - B012
10.00	NL1010 S200Q - B013	NL1010 S300Q - B013
11.20	NL1010 S200Q - B014	NL1010 S300Q - B014
12.50	NL1010 S200Q - B015	NL1010 S300Q - B015
13.20	NL1010 S200Q - B016	NL1010 S300Q - B016
14.00	NL1010 S200Q - B017	NL1010 S300Q - B017
16.00	NL1010 S200Q - B018	NL1010 S300Q - B018
18.00	NL1010 S200Q - B019	NL1010 S300Q - B019
19.00	NL1010 S200Q - B020	NL1010 S300Q - B020
20.00	NL1010 S200Q - B021	NL1010 S300Q - B021
22.40	NL1010 S200Q - B022	NL1010 S300Q - B022
25.00	NL1010 S200Q - B023	NL1010 S300Q - B023
26.50	NL1010 S200Q - B024	NL1010 S300Q - B024
28.00	NL1010 S200Q - B025	NL1010 S300Q - B025
31.50	NL1010 S200Q - B026	NL1010 S300Q - B026
35.50	NL1010 S200Q - B027	NL1010 S300Q - B027
37.50	NL1010 S200Q - B028	NL1010 S300Q - B028
40.00	NL1010 S200Q - B029	NL1010 S300Q - B029
45.00	NL1010 S200Q - B030	NL1010 S300Q - B030
50.00	NL1010 S200Q - B031	NL1010 S300Q - B031
53.00	NL1010 S200Q - B032	NL1010 S300Q - B032
56.00	NL1010 S200Q - B033	NL1010 S300Q - B033
63.00	NL1010 S200Q - B034	NL1010 S300Q - B034
71.00	NL1010 S200Q - B035	NL1010 S300Q - B035
75.00	NL1010 S200Q - B036	NL1010 S300Q - B036
80.00	NL1010 S200Q - B037	NL1010 S300Q - B037
90.00	NL1010 S200Q - B038	NL1010 S300Q - B038
100.00	NL1010 S200Q - B039	NL1010 S300Q - B039
106.00	NL1010 S200Q - B040	NL1010 S300Q - B040
112.00	NL1010 S200Q - B041	NL1010 S300Q - B041
125.00	NL1010 S200Q - B042	NL1010 S300Q - B042

Test Sieves Rack



Multi Size Sieves



Mount To Wall



Stacking Shelves



MUFFLE FURNACE

Standard: EN 196-2

Heat Treating

The NL Muffle furnaces are general purpose laboratory and heat treating furnaces. Designed for high temperature heating's. Structure made in sheet-steel, furnace frontal in die casted steel to avoid the aggression of the acid smokes. The laboratory furnace is intended for analysis of various materials and for different kinds of thermal treatment at a temperature of up to 1300°C

Technical Specifications :

Model Number	NL 1011 X / 005
Max. Temperature	1300°C
Capacity	18 litre
Working Space	500(D) x 200(W) x 180(H) mm
Product Dimension	640(D) x 565(W) x 695(H) mm
Power	220 V, 50/60 Hz, 1 pH, 6kW
Approx. Weight	100 kg



**NEW
2018**



DIGIMATIC POINT LOAD TESTER APPARATUS (E-VERSION)

Standard: ASTM D5731

Strength Index

Used to determine the strength values of a rock specimen both in the field and in the laboratory. New rigid design load frame with hydraulic loading ram actuated by hand pump. A ruler attach on the frame allow for direct measuring specimen diameter. The apparatus applied high accuracy load cell & fine resolution reading control unit.

Technical Specifications :

Model Number	NL 1012 X / 006N
Max. Capacity	50 kN x 0.01 kN Sensitivity
Max. Specimen Test	90 mm Dia.
Power	1.8 Ah Rechargeable with AC 220 V
Result Storage	50 Test Results
Accuracy & Repeatability	≤1.0 % F.S
Case Dimension (mm)	280(L) x 220(W) x 680(H) mm
Approx. Weight	40 kg

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1012 X / 006 – P 001	50 kN S Type Load Cell c/w Cable	1no.
NL DLD-200	Digital Load Display	1unit
NL 1012 X / 006 – P 003	Measuring Guide Plate	1no.
NL 1012 X / 006 – P 006	Conical Cone Set (Top & Bottom)	1set
NL 1012 X / 006 - P 007	Safety Cover	1 pc.
NL 1012 X / 006 - P 008	Power Charger	1 no.

*1 Copy of Manual Instruction

DIGIMATIC POINT LOAD TESTER APPARATUS (COMPACT VERSION)

Standard: ASTM D5731

Strength Index

Used to determine the strength values of a rock specimen both in the field and in the laboratory. New rigid design load frame with hydraulic loading ram actuated by hand pump. A ruler attach on the frame allow for direct measuring specimen diameter. The apparatus applied high accuracy load cell & fine resolution reading control unit. The case come with easy compartment for storage of component parts.



**NEW
2018**

Technical Specifications :

Model Number	NL 1012 X / 008
Max. Capacity	50 kN x 0.001 kN Sensitivity
Max. Specimen Test	110 mm Dia.
Power	1.8 Ah Rechargeable with AC 220 V
Result Storage	999 Test Results
Accuracy & Repeatability	≤1.0 % F.S
Case Dimension (mm)	280(L) x 220(W) x 680(H) mm
Approx. Weight	40 kg

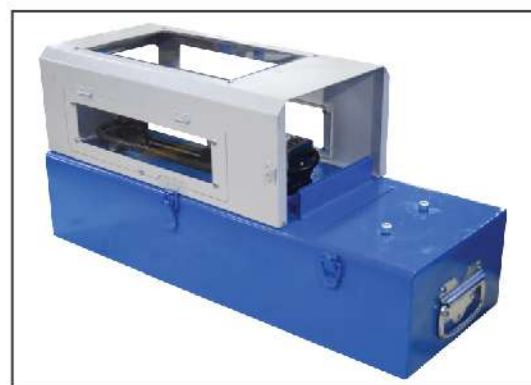


Digital Readabout

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1012 X / 008 - P 003	Measuring Guide Plate	1no.
NL 1012 X / 008 - P 006	Conical Cone Set (Top & Bottom)	1set
NL 1012 X / 008 - P 007	Safety Cover	1 pc.
NL 1012 X / 008 - P 008	Power Charger	1 no.

*1 Copy of Manual Instruction



Fully Close Set-up For Easy Storage

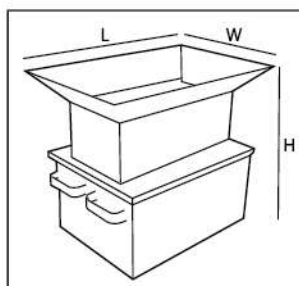


Handle for easy Portability



Under Compartment

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RIFFLE BOX

Standard: EN 932-1, EN 932-2, BS 812, ASTM C136, ASTM C702, AASHTO T27 / T87

Used for the rapid preparation of dry material such as cement, gravel, sand, soil etc. Material poured into the hopper is divided into two equal portions by a series of slot that discharge the material alternately in opposite direction into separate pans.

Technical Specifications :

Model Number	Sloth Width		Sloth No.	Receiving Container (nos)	Dimension (LxWxH)(mm)	Weight (kg)
	Inch	mm				
NL 1014 X / 001	¼	6.3	12	3	175 x 120 x 120	1.5
NL 1014 X / 002	⅜	9.5	12	3	265 x 160 x 175	3
NL 1014 X / 003	½	12.7	8	3	205 x 185 x 220	3
NL 1014 X / 004	¾	19.0	12	3	390 x 220 x 270	7
NL 1014 X / 005	1	25.0	8	3	340 x 230 x 295	7
NL 1014 X / 006	1½	38.0	8	3	335 x 270 x 395	15
NL 1014 X / 007	2	50.8	8	3	570 x 280 x 390	18
NL 1014 X / 008	2½	63.5	8	3	675 x 310 x 420	20



TRIPLE MOTION SIEVES SHAKER (LARGE DIA.)

(from 200 up to 450 mm Dia.)

Standard: EN 932-5, ISO 3310-1

Sampler Grading

Newly invented product by NL. Reliable and long lasting, simple sturdy construction.

FEATURES:-

- *Triple vibration action (vertical, lateral and rotational)
- *Quick clamping & release mechanism hand knob
- *Low noise pollution

Technical Specifications :

Model Number	NL 1015 X / 009A
Acommodates	*11 nos 200 mm / 8" Dia. Full Height Sieves plus lid and receiver
	*9 nos 300 mm / 12" Dia. Full Height Sieves plus lid and receiver
	*7 nos. 450 mm Dia. Full Height Sieves plus lid and pan.
Timer	1 - 60 min
Approx. Dimension	585 (L) x 460 (W) x 1250 (H) mm
Approx. Weight	105 kg
Power	220 V, 1 ph, 1/2 Hp, 50 / 60 Hz, 375W

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1015 X / 006 - P 009	Quick Release Knobs (Pair of 2)	1pr.
NL 1015 X / 006 - P 002	Clamping Beam	1no.
NL 1015 X / 006 - P 003	Threaded Column Set (pair of 2 included nut & spring washer)	1pr.

*1 Copy of Manual Instruction

Optional Accessories :

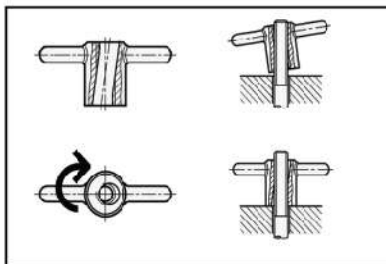
Model Number	Parts Description
NL 1015 X / SPC	Noise Reduction Cabinet



Noise Reduction Cabinet



Quick Release Knob



How to use quick release knob



TRIPLE MOTION SIEVES SHAKER

Standard: EN 932-5, ISO 3310-1

Sampler Grading

Newly invented product by NL. Reliable and long lasting, simple sturdy construction.

FEATURES:-

- *Triple vibration action (vertical, lateral and rotational)
- *Quick clamping & release mechanism hand knob
- *Low noise pollution

Technical Specifications :

Model Number	NL 1015 X / 010
Acommodates	*11 nos 200 mm / 8" Dia. Full Height Sieves plus lid and receiver *9 nos 300 mm / 12" Dia. Full Height Sieves plus lid and receiver
Timer	1 - 60 min
Approx. Product Dimension	540 (L) x 460 (W) x 1230 (H) mm
Approx. Weight	53 kg
Power	220 V, 1 ph, 1/3 Hp, 50 / 60 Hz, 375W

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1015 X / 006 - P 009	Quick Release Knobs (pair of 2)	1pr.
NL 1015 X / 006 - P 002	Clamping Beam	1no.
NL 1015 X / 006 - P 003	Threaded Column Set (pair of 2 included nut & spring washer)	1pr.

*1 Copy of Manual Instruction

Optional Accessories :

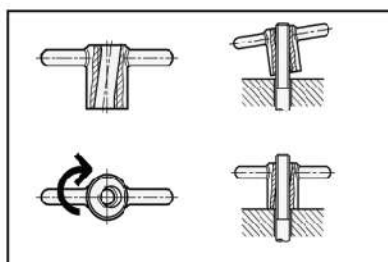
Model Number	Parts Description
NL 1015 X / SPC	Noise Reduction Cabinet



Noise Reduction Cabinet



Quick Release Knob



How to use quick release knob



ECO-SMARTZ MULTI AMPLITUDE TRIPLE MOTION SIEVES SHAKER

Standard: EN 932-5, ISO 3310-1

Sample Grading

Newly invented product using inverter system by NL. Adjustable vibration level according to different needs to sieve wide range of materials. Reliable, long lasting and simple sturdy construction. Can hold up to 8 sieves.

FEATURES:-

- *Triple vibration action (vertical lateral and rotational)
- *Quick clamping & release mechanism hand knob
- *Low noise pollution

Technical Specifications :

Model Number	NL 1015 X / 011
Accommodates	*11 nos 200 mm / 8" Dia. Full Height Sieves plus lid and receiver *9 nos 300 mm / 12" Dia. Full Height Sieves plus lid and receiver
Sieve Size	200 & 300 mm, 8" & 12" Diameter
Timer	1 - 60 min
Product Dimension (mm)	540 (L) x 520 (W) x 1250 (H)
Approx. Weight	53 kg
Power	220 V, 1 ph, ½ Hp, 50 / 60 Hz

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1015 X / 006 – P 009	Quick Release Knobs (pair of 2)	1 pr.
NL 1015 X / 006 – P 002	Clamping Beam	1 no.
NL 1015 X / 006 – P 003	Threaded Column Set (pair of 2 included nut & spring washer)	1 pr.

*1 Copy of Manual Instruction

Optional Accessories :

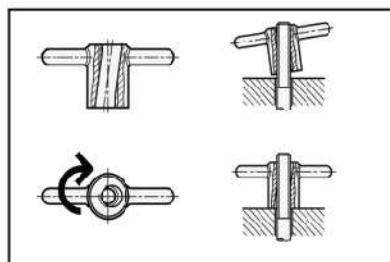
Model Number	Accessories Description
NL 1015 X / SPC	Noise Reduction Cabinet



Noise Reduction Cabinet



Quick Release Knob



How to use quick release knob



DIGIMATIC DRYING OVEN

Standard: ASTM C127/C136/D558/D698/D1559, EN 932-5/1097-5, BS 1377/1924

Drying Sample

The Digimatic Control Drying Oven exterior is a general purpose laboratory used such as soil, concrete, asphalt and aggregate. Internal frame made of stainless steel sheet and external casing coated with hard wearing paint & insulated with thick mineral wool. Heat generated by high precision digital controller & temperature range from RT + 10°C to 250°C. All capacity come with fan circulation blower. The oven come with glass viewing door surrounding casing is obtained with 50 mm thick fiber glass & steel

Technical Specifications :

Model Number	NL 1017 X / 007	NL 1017 X / 008
Capacity	65 Litres	125 Litres
Voltage	220 V, 1 ph, 50 / 60 Hz	
Temp. Variation	RT+10-250°C	
Temp. Fluctuation	±5.0°C	
Temp. Distinguishability	0.1°C	
Ambient Temperature	+5-40°C	
Heating Power	1.6 KW	2.3 KW
Interior Dimension W×D×H	400×360×450 mm	500 × 450 × 550 mm
Exterior Dimension W×D×H	550×550×840 mm	636 × 580 × 915 mm
Packaging Dimension W×D×H	640×640×905 mm	730 × 720 × 1000 mm
Load Per Rack	25/kg 2 For Standard Configuration	
Gross / Net Weight	47 / 61 kg	56 / 71 kg
Timing Range	1-9999 min	

*1 Copy of Manual Instruction for each model

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DIGIMATIC DRYING OVEN

Standard: ASTM C127/C136/D558/D698/D1559, EN 932-5/1097-5, BS 1377/1924

Drying Sample

The Digimatic Control Drying Oven exterior is a general purpose laboratory used such as soil, concrete, asphalt and aggregate. Internal frame made of stainless steel sheet and external casing coated with hard wearing paint & insulated with thick mineral wool. Heat generated by high precision digital controller & temperature range from RT + 10°C to 250°C. All capacity come with fan circulation blower. The oven come with glass viewing door surrounding casing is obtained with 50 mm thick fiber glass & steel shelves.

Technical Specifications :

Model Number	NL 1017 X / 009A	NL 1017 X / 010
Capacity	225 Litres	429 Litres
Voltage	220 V, 1 ph, 50 / 60 Hz	415 V, 3 ph, 50 / 60 Hz
Temp. Variation	RT+10-250°C	
Temp. Fluctuation	±5.0°C	
Temp. Distinguishability	0.1°C	
Ambient Temperature	+5-40°C	
Heating Power	3 KW	
Interior Dimension (WxDxH)	600×500×750 mm	600×550×1300 mm
Exterior Dimension (WxDxH)	730×670×1220 mm	745×750×1670 mm
Packaging Dimension (WxDxH)	900×800×1350 mm	815×800×1800 mm
Load Per Rack	25/kg 2 For Standard Configuration	25/kg 3 For Standard Configuration
Gross / Net Weight	70 / 105 kg	105 / 135 kg
Timing Range	1-9999 min	

*1 Copy of Manual Instruction for each model



NL 1017 X / 009A

NL 1017 X / 010

SCREEN SHAKER (LARGE CAPACITY)

Standard: ASTM C-136, EN 933-2,
ISO 3310-2

Sampler Grading

High capacity screening for large sample. Ideal for determination of crushed stone, sand and gravel. Sample are quickly processed into as many as seven separation in a litres as tree to five minutes. Typical batch sizes up to one cubic foot (0.028 m³) or more vary with material type .Mechanical clamping are easily secured in place by a few quick strokes. (The unit come with supporting backup clutch for tray and hooked for tensioning finer sizes screening)

**NEW
2019**



Technical Specifications :

Model Number	NL 1018 X / 002
Tray Capacity	7 Trays Included Dust Pan
Screen Tray Dimension (mm)	870 (L) x 570 (W) x 1120 (H)
Power	240 V, 50/60 Hz, 1 ph, 750 W, 1hp 4.5 A, 1500 RPM
Approx. Weight	100 kg

Set Consists Of :

Model Number	Parts Description	Qty
NL 1018 X / 001 – P 001	Dust Cover	1no.
NL 1018 X / 001 – P 003	Tool Kit Set	1set.
NL 1018 X / 002 – P 001	Tray (without mesh)	6nos.
NL 1018 X / 002 – P 002	Dust Pan	1no.
NL ADC 100	Armortron Controller c/w Mounting Bracket	1no.

*1 Copy of Manual Instruction

Screen Tray ISO 3310-2,933-2 Perforated Metal Plate Tyre

Optional Accessories :

Model Number	Accessories Description
NL 1018 X / 002 – A 001	Screen Tray 4.0 mm
NL 1018 X / 002 – A 002	Screen Tray 5.6 mm
NL 1018 X / 002 – A 003	Screen Tray 7.1 mm
NL 1018 X / 002 – A 004	Screen Tray 8.0 mm
NL 1018 X / 002 – A 005	Screen Tray 10.0 mm
NL 1018 X / 002 – A 006	Screen Tray 11.2 mm
NL 1018 X / 002 – A 007	Screen Tray 12.5 mm
NL 1018 X / 002 – A 008	Screen Tray 14.0 mm
NL 1018 X / 002 – A 009	Screen Tray 16.0 mm
NL 1018 X / 002 – A 010	Screen Tray 18.0 mm
NL 1018 X / 002 – A 011	Screen Tray 20.0 mm
NL 1018 X / 002 – A 012	Screen Tray 22.4 mm
NL 1018 X / 002 – A 013	Screen Tray 31.5 mm
NL 1018 X / 002 – A 014	Screen Tray 40.0 mm
NL 1018 X / 002 – A 015	Screen Tray 50.0 mm
NL 1018 X / 002 – A 016	Screen Tray 56.0 mm
NL 1018 X / 002 – A 017	Screen Tray 63.0 mm
NL 1018 X / 002 – A 018	Screen Tray 80.0 mm

Screen Tray ASTM E11

Optional Accessories :

Model Number	Accessories Description
NL 1018 X / 001 – A 001	Screen Tray 125.0 mm (5 in.)
NL 1018 X / 001 – A 002	Screen Tray 106.0 mm (4.24 in.)
NL 1018 X / 001 – A 003	Screen Tray 100.0 mm (4 in.)
NL 1018 X / 001 – A 004	Screen Tray 90.0 mm (3.5 in.)
NL 1018 X / 001 – A 005	Screen Tray 75.0 mm (3 in.)
NL 1018 X / 001 – A 006	Screen Tray 63.0 mm (2.5 in.)
NL 1018 X / 001 – A 007	Screen Tray 53.0 mm (2.12 in.)
NL 1018 X / 001 – A 008	Screen Tray 50.0 mm (2 in.)
NL 1018 X / 001 – A 009	Screen Tray 45.0 mm (1.75 in.)
NL 1018 X / 001 – A 010	Screen Tray 37.5 mm (1.5 in.)
NL 1018 X / 001 – A 011	Screen Tray 31.5 mm (1.25 in.)
NL 1018 X / 001 – A 012	Screen Tray 26.5 mm (1.06 in.)
NL 1018 X / 001 – A 013	Screen Tray 25.0 mm (1 in.)
NL 1018 X / 001 – A 014	Screen Tray 22.4 mm (0.875 in.)
NL 1018 X / 001 – A 015	Screen Tray 19.0 mm (0.75 in.)
NL 1018 X / 001 – A 016	Screen Tray 16.0 mm (0.625 in.)
NL 1018 X / 001 – A 017	Screen Tray 13.2 mm (0.53 in.)
NL 1018 X / 001 – A 018	Screen Tray 12.5 mm (0.5 in.)
NL 1018 X / 001 – A 019	Screen Tray 11.2 mm (0.438 in.)
NL 1018 X / 001 – A 020	Screen Tray 9.5 mm (0.375 in.)
NL 1018 X / 001 – A 021	Screen Tray 8.0 mm (0.312 in.)
NL 1018 X / 001 – A 022	Screen Tray 6.7 mm (0.265 in.)
NL 1018 X / 001 – A 023	Screen Tray 6.3 mm (0.25 in.)
NL 1018 X / 001 – A 024	Screen Tray 5.6 mm (No. 3-1/2)
NL 1018 X / 001 – A 025	Screen Tray 4.75 mm (No. 4)
NL 1018 X / 001 – A 026	Screen Tray 4 mm (No. 5)
NL 1018 X / 001 – A 027	Screen Tray 3.35 mm (No. 6)
NL 1018 X / 001 – A 028	Screen Tray 2.8 mm (No. 7)
NL 1018 X / 001 – A 029	Screen Tray 2.36 mm (No. 8)
NL 1018 X / 001 – A 030	Screen Tray 2.0 mm (No. 10)

Optional Accessories :

Model Number	Accessories Description
NL 1018 X / 001 – A 031	Screen Tray 1.70 mm (No. 12)
NL 1018 X / 001 – A 032	Screen Tray 1.4 mm (No. 14)
NL 1018 X / 001 – A 033	Screen Tray 1.18 mm (No. 16)
NL 1018 X / 001 – A 034	Screen Tray 1.0 mm (No. 18)
NL 1018 X / 001 – A 035	Screen Tray 850 µm (No. 20)
NL 1018 X / 001 – A 036	Screen Tray 710 µm (No. 25)
NL 1018 X / 001 – A 037	Screen Tray 600 µm (No. 30)
NL 1018 X / 001 – A 038	Screen Tray 500 µm (No. 35)
NL 1018 X / 001 – A 039	Screen Tray 425 µm (No. 40)
NL 1018 X / 001 – A 040	Screen Tray 355 µm (No. 45)
NL 1018 X / 001 – A 041	Screen Tray 300 µm (No. 50)
NL 1018 X / 001 – A 042	Screen Tray 250 µm (No. 60)
NL 1018 X / 001 – A 043	Screen Tray 212 µm (No. 70)
NL 1018 X / 001 – A 044	Screen Tray 180 µm (No. 80)
NL 1018 X / 001 – A 045	Screen Tray 150 µm (No. 100)
NL 1018 X / 001 – A 046	Screen Tray 125 µm (No. 120)
NL 1018 X / 001 – A 047	Screen Tray 106 µm (No. 140)
NL 1018 X / 001 – A 048	Screen Tray 90 µm (No. 170)
NL 1018 X / 001 – A 049	Screen Tray 75 µm (No. 200)
NL 1018 X / 001 – A 050	Screen Tray 63 µm (No. 230)
NL 1018 X / 001 – A 051	Screen Tray 53 µm (No. 270)
NL 1018 X / 001 – A 052	Screen Tray 45 µm (No. 325)
NL 1018 X / 001 – A 053	Screen Tray 38 µm (No. 400)
NL 1018 X / 001 – A 055	Safety Sound Proof Cabinet



SPECIFIC GRAVITY FRAME /BUOYANCY BALANCE

Standard: EN 1097-6, EN 12390-7,
BS 1881:114, BS 812, ASTM C127,
AASHTO T85

Particle Density

Used for specific gravity determination of concrete, aggregates etc. To be used with a suitable mechanical and electronic balance fitted with an under - hook facility. It incorporates on its lower part a platform adjustable in height, holding a water container and allowing the specific gravity test. The balance is not included and must be ordered separately.

Technical Specifications :

Model Number	NL 1019 X / 002
Dimension (mm)	560 (L) x 420 (W) x 1070 (H)
Approx. Weight	55 kg

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1019 X / 002 - P 001	Water Tank	1no.

*1 Copy Manual Instruction

Optional Accessories :

Model Number	Accessories Description
NL 1019 X / 002 - A 001	Stainless Steel Cradle Hook (with Stainless Steel Hook)
NL 1019 X / 002 - A 002	Stainless Steel Wire Basket Mesh Size 3.35mm (with Stainless Steel Hook)
NL 7017 X / 014	Digital Weighing Balance 15000g x 0.1g (with Bottom Hook Weighing)
NL 7017 X / 016	Digital Weighing Balance 10000g x 0.1g (with Bottom Hook Weighing)



NL 7017 X / 014



NL 1019 X / 002 - A002



NL 1019 X / 002 - A001



PRISM MOULD 50x50x200 mm

Standard: BS EN 1367-4

Determination of Drying Shrinkage

Used to determine the thermal and weathering properties or aggregate in drying shrinkage of concrete.

Technical Specification :

Model Number	NL 1020 X / 001
Specimen Dimension	50 x 50 x 200 mm
Material	Polish Surface Mild Steel
Mould Dimension	240(L) X 80 (W) X 58 (H)
Approx. Weight	4 kg

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1020 X / 001 – P 001	Brass Insert (10 pcs/pack)	1 pack.
NL 1020 X / 001 – P 002	Ø8mm Steel Ball	2 pcs.

Optional Accessories :

Model Number	Parts Description
NL 3024 X / 002	Length Comparator
NL 3024 X / 002 - A003	Reference Rod 205 mm

SLAKE DURABILITY APPARATUS

Standard: ASTM D4644

Slake Durability Index

This apparatus provides a means of predicting the durability of rock to weakening and disintegration when subjected to the simulated effects of climatic slaking. The apparatus consists of a motorized drive unit which is mounted on a base plate and which can rotate two or four drum at the same time with a 20 r.p.m. of speed.

Technical Specifications :

Model Number	NL 1021 X / 001
Dimension (mm)	1400 (L) x 370 (W) x 240 (H)
Speed Rotation	20 r.p.m.
Approx. Weight	21 kg
Power Supply	240 V, 1 ph, 50 / 60 Hz

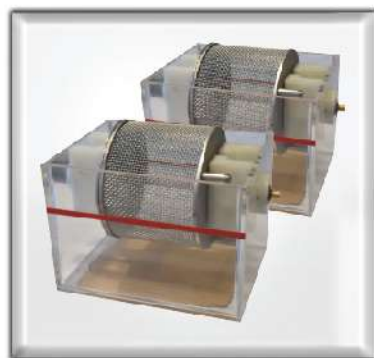
Unit Consists Of :

Model Number	Parts Description	Qty
NL 1021 X / 001 – P 001	Drum & Tank Assemblies Included Coupling	2 Units

*1 Copy of Manual Instruction

Optional Accessories :

Model Number	Accessories Description
NL 1021 X / 001 – A 001	Drum Assembly Unit c/w Cover
NL 1021 X / 001 – A 002	Tank Assembly Unit
NL 1021 X / 001 – A 003	Flexible Coupling Unit



NL 1021 X / 001 – P 001



**Complete
Pan Assembly
With Sample**



**Halogen
Lamp**



MOISTURE ANALYZER BALANCE

Moisture Content Analyzer

Used to determine moisture content in soil, sand, aggregates & other small materials. Halogen lamp provides fast heating & instant results, without the need to use calcium carbide or the long drying process in oven. Results display in percentage of moisture content, percentage of dry weight & wet weight. Simple to use with bright display & results accuracy are ensured through simple calibration function.

Technical Specifications :

Model Number	NL 1022 X / 003
Capacity	110 g
Weight Resolution	0.005 g
Pan Diameter	90 mm
Heating Element	Halogen Lamp
Temperature Setting	40°C ~ 199°C
Time Setting	1 ~ 99 minutes
Moisture Content	0% ~ 99%
Dry Weight	0% ~ 99%
Resolution of Dry Weight & Moisture Content	0.01%
Result Storage Capacity	15 Sets
Dimension (mm)	340 (L) x 205 (W) x 180 (H)
Approx. Weight	4340 g
Power	220 V ~ 240 V AC, 1 phase

Set Consist Of :

Model Number	Part Description	Qty
NL 1022 X / 003 – P 001	Pan Bracket	1no.
NL 1022 X / 003 – P 002	Wind Cover Plate	1no.
NL 1022 X / 003 – P 003	Triangle Pan Frame	1no.
NL 1022 X / 003 – P 004	Pack of Aluminium Pan	1pck.
NL 1022 X / 003 – P 005	100 g Standard Weight	1no.

*1 Copy of Manual Instruction



RAPID MOISTURE TESTER

Standard: BS 812, ASTM D4944, AASHTO T217

Moisture Measurement

Used to determine moisture content of sand, soil and fine aggregate. The procedure involves the reaction between water and calcium carbide which when mixed together a gas is given off. The gas is directly proportional to the amount of water present in the sample and results in percentage of moisture range with 0-25% & 0-50% capacity.

Technical Specifications :

Model Number	NL 1022 X / 004	NL 1022 X / 005
Moisture Range	50 %	25 %
Gauge Sensivity	0.5% / Div.	0.2% / Div.
Dimension (mm)	350 (L) x 280 (W) x 130 (H)	
Approx. Weight	5 kg	

Set Consists Of :

Model Number	Parts Description	Qty
NL 1022 X / 004 - P001	Rapid Bottle Tester with 50% Gauge (004 only)	1no.
NL 1022 X / 005 - P001	Rapid Bottle Tester with 25% Gauge (005 only)	1no.
NL 1022 X / 001 - P 002	Electrical Digital Balance	1no.
NL 1022 X / 001 - P 003	Bottle Brush	1no.
NL 1022 X / 001 - P 004	Measuring Scoop	1no.
NL 1022 X / 001 - P 005	Steel Ball	4nos.
NL 1022 X / 001 - P 006	Carrying Case	1no.
NL 1022 X / 001 - P 007	Pouring Disc	1pc
NL 7016 X / 001	Calcium Carbide 500 g	1btl.

*1 Copy of Manual Instruction



RAPID MOISTURE TESTER (20 gram Sample)

Standard: BS 812, ASTM D4944, AASHTO T217

Moisture Measurement

Used to determine moisture content of sand, soil and fine aggregate. The procedure involves the reaction between water and calcium carbide which when mixed together a gas is given off. The gas is directly proportional to the amount of water present in the sample and results in percentage moisture range 0-20%.

Technical Specifications :

Model Number	NL 1022 X / 006
Moisture Range	20 %
Gauge Sensivity	0.2 Div.
Dimension (mm)	450 (L) x 340 (W) x 170 (H)
Approx. Weight	6 kg

Set Consists Of :

Model Number	Parts Description	Qty
NL 1022 X / 006 - P 001	Rapid Bottle Tester with Gauge	1no.
NL 1022 X / 001 - P 002	Electrical Digital Balance	1no.
NL 1022 X / 001 - P 003	Bottle Brush	1no.
NL 1022 X / 001 - P 004	Measuring Scoop	1no.
NL 1022 X / 001 - P 005	Steel Ball	4nos.
NL 1022 X / 001 - P 006	Carrying Case	1no.
NL 7016 X / 001	Calcium Carbide 500 g	1btl.
NL 1022 X / 001 - P 002	80mm Dia. Moisture Gauge 20%	1no.

*1 Copy of Manual Instruction



RAPID MOISTURE TESTER (E-Version)

Standard: BS 812, ASTM D4944, AASHTO T217

Moisture Measurement

An Economical Version (E-Version) Rapid Moisture Tester used to determine moisture content of sand, soil and fine aggregate. The procedure involves the reaction between water and calcium carbide which when mixed together a gas is given off. The gas is directly proportional to the amount of water present in the sample and results in percentage of moisture range with 0-25% & 0-50% capacity.

Technical Specifications :

Model Number	NL 1022 X / 007	NL 1022 X / 008
Moisture Range Up To	25 %	50 %
Gauge Sensivity	0.2% / Div.	0.5% / Div.
Dimension (mm)	310 (L) x 380 (W) x 170 (H)	
Approx. Weight	3.4 kg	

Set Consists Of :

Model Number	Parts Description	Qty
NL 1022 X / 007 - P 001	Rapid Bottle Tester with 25% Gauge (for 007 only)	1no.
NL 1022 X / 008 - P 001	Rapid Bottle Tester with 50% Gauge (for 008 only)	1no.
NL 1022 X / 001 - P 002	Electrical Digital Balance	1no.
NL 1022 X / 001 - P 003	Bottle Brush	1no.
NL 1022 X / 001 - P 004	Measuring Scoop	1no.
NL 1022 X / 001 - P 005	Steel Ball	4nos.
NL 1022 X / 001 - P 006	Carrying Case	1no.
NL 7016 X / 001	Calcium Carbide 500 g	1btl.
NL 1022 X / 001 - P007	Pouring Disc	1 pc.

*1 Copy of Manual Instruction



RAPID MOISTURE TESTER CALIBRATION KIT

Pressure Calibration

NL handheld pressure calibrators are an ideal tool for checking and calibration of NL Rapid Moisture Tester. It come with standard conversion chart between pressure unit to moisture percentage for 25% and 50% moisture gauge.

Technical Specifications :

Model Number	NL 1022 X / KIT
Max. Pressure	10 Bar
Approx. Weight	9 kg

Set Consists Of :

Model Number	Accessories Description	Qty
NL 1022 X / KIT – 01	Integral Air Pump	1 unit.
NL 1022 X / KIT – 02	Digital Pressure Unit	1 no.
NL 1022 X / KIT – 03	Connection Cap with Tubing	1 Set.
NL 1022 X / KIT – 04	Conversion Chart	1 Copy
NL 1022 X / KIT – 05	Gauge Opening Tools	1 no.

*1 Copy of Manual



LARGE SAMPLE SPLITTER

Standard: ASTM C702, UNI 8520, EN 933-3, ASTM C136, NF P18-553, AASHTO T27, AASHTO T87, BS 812:1, BS1377:2, BS 1924:1, UNE 83120

Sampling Tools Riffle Boxes (Sample Splitters)

Sample Splitter very sturdily constructed with cadmium coated plated for rust protection. It is designed for the reduction of test sample which are too large in volume. It handles any material from size up to 108 mm. Each chute bar is 1/2" wide. The opening start from 1/2", 1", 1 1/2", 2", 3" & 4" are possible.

Technical Specifications :

Model Number	NL 1023 X / 001
Dimension (mm)	460 (L) x 723 (W) x 958 (H)
Approx. Weight	60 kg

Set Consists Of :

Model Number	Accessories Description	Qty
NL 1023 X / 001 – A 001	Collecting Pan	2nos.



Collecting Pan come with holders on both side



Easy to install into main part

NEW
2018



LARGE SAMPLE SPLITTER (Fully Enclosed Version)

Standard: ASTM C702, UNI 8520, EN 933-3, ASTM C136, NF P18-553, AASHTO T27, AASHTO T87, BS 812:1, BS1377:2, BS 1924:1, UNE 83120

Sampling Tools Riffle Boxes (Sample Splitters)

Fully Enclosed sample splitter are suggested for samples of fine, dusty powders, or where moisture retention is important. With transparency compartment on top of feeding chutes, this splitter is very sturdily constructed with cadmium coated plated for rust protection. It is designed for the reduction of test sample which are too large in volume. It handles any material from size up to 108 mm. Each chute bar is 1/2" wide. The opening start from 1/2", 1", 1 1/2", 2", 3" & 4" are possible.

Technical Specifications :

Model Number	NL 1023 X / 002
Dimension (mm)	545 (L) x 370 (W) x 620 (H)
Approx. Weight	183 kg

Set Consists Of :

Model Number	Accessories Description	Qty
NL 1023 X / 001 – A 001	Collecting Pan with Trolley	2nos.



STANDARD AGGREGATE CRUSHING VALUE APPARATUS

Standard: BS 812:110

Crushing Value

The apparatus is to determine the resistance of aggregate to crushing under a gradually applied compressive load. It consists of cylinder, plunger, base plate, tamping rod and measuring container.

Technical Specifications :

Model Number	NL 1024 X / 001	NL 1024 X / 002
Approx. Weight	20 kg	8 kg

Set Consists Of :

Parts Description	NL 1024 X / 001	NL 1024 X / 002	Qty
Cylinder	NL 1024 X / 001 – P 001	NL 1024 X / 002 – P 001	1no.
Plunger	NL 1024 X / 001 – P 002	NL 1024 X / 002 – P 002	1no.
Base Plate	NL 1024 X / 001 – P 003	NL 1024 X / 002 – P 003	1no.
Tamping Rod	NL 4013 X / 001 – P 003	NL 1024 X / 002 – P 004	1no.
Measuring Cylinder	NL 1024 X / 001 – P 005	NL 1024 X / 002 – P 005	1no.



FLAKINESS SIEVE SET

Standard: BS 812:105.1

Flakiness & Elongation Index

Used for determine aggregate particles are to be considered flaky. Consist of seven sieves in steel powder coated paint. Each one can be ordered separately.

Technical Specifications :

Model Number	NL 1025 X / 001
Approx. Weight	14kg

Set Consists Of :

Parts Description	Sloth Width	Sloth Length	Passing / Retained
NL 1025 X / 001 – P 001	4.9 mm	30 mm	10 / 6.3
NL 1025 X / 001 – P 002	7.2 mm	40 mm	14 / 10
NL 1025 X / 001 – P 003	10.2 mm	50 mm	20 / 14
NL 1025 X / 001 – P 004	14.4 mm	60 mm	28 / 20
NL 1025 X / 001 – P 005	19.7 mm	80 mm	37.5 / 28
NL 1025 X / 001 – P 006	26.3 mm	90 mm	50 / 37.5
NL 1025 X / 001 – P 007	33.9 mm	100 mm	63 / 50



AGGREGATE SHAPE GAUGE

Standard: ASTM C702, UNI 8520, EN 933-3, ASTM C136, NF P18-553, AASHTO T27, AASHTO T87, BS 812:1, BS1377:2, BS 1924:1, UNE 83120

For measuring the shape factor of aggregates.

Technical Specifications :

Model Number	NL 1026 X / 001
Dimension	160 (L) x 320 (W) mm
Approx. Weight	500 g
Tolerance/Limit (L/E)	± 0.05
Scale Sensitivity	0.05 mm

*1 Copy of Manual Instruction



FLAKINESS / THICKNESS GAUGE

Standard: BS 812-105.1.

Flakiness & Elongation Index

Used to determine if aggregate is, if its thickness less than 0.6 of its nominal size.

Technical Specifications :

Model Number	NL 1027 X / 001
Dimension	400 (L) x 136 (W)
Approx. Weight	600 g



ELONGATION / LENGTH GAUGE

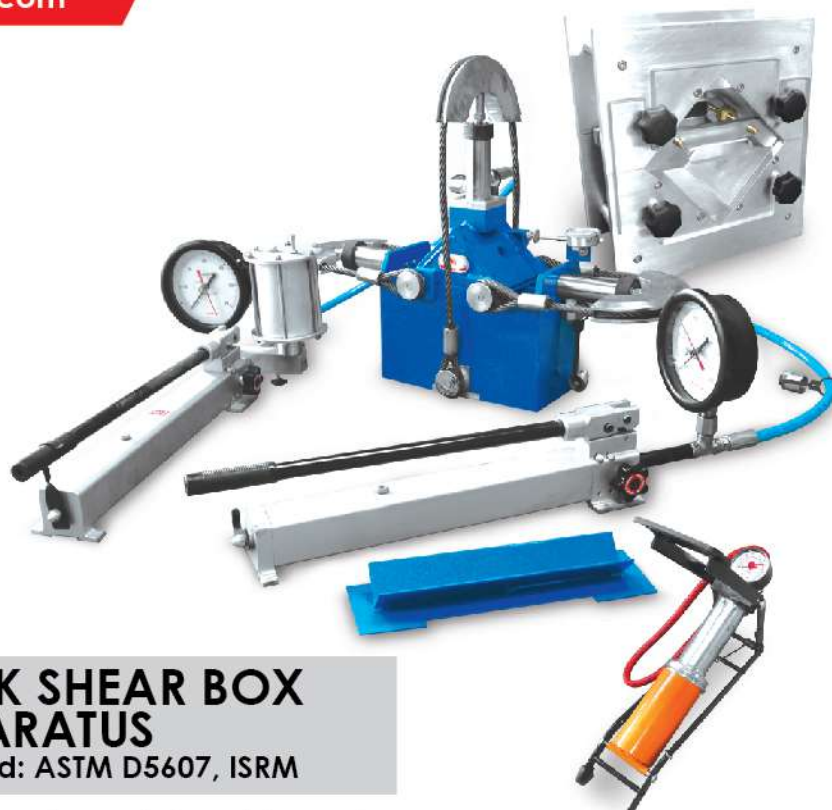
Standard: BS 812:105.1

Determination Of Loose

Used to determine if aggregate is if length is more than 1.8 of nominal size.

Technical Specifications :

Model Number	NL 1028 X / 002
Dimension	334 (L) x 38 (W)
Approx. Weight	780 g



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 / 001
Maximum Capacity	50 kN
Dimension (mm)	770 (L) x 220 (W) x 590 (H)
Approx. Weight	60 kg

Optional Accessories :

Model Number	Accessories Description
NL 1030 X / 001 – A 001	Vertical Displacement Tools Set: Mounting Bracket
NL 7020 X / 007	Digital Dial Indicator 12.7 mm x 0.001 mm

Unit Consists Of :

Model Number	Parts Description	Qty
NL 1030 X / 001 – P 001	Mould Former	1no.
NL 1030 X / 001 – P 002	Pressure Maintainer Set	1set
NL 1030 X / 001 – P 003	Sample Casting Plaster (25 kg / pack)	1bag
NL 1030 X / 001 – P 004	Manual Hand Pump c/w House & Quick Coupling (Female)	2nos.
NL 1030 X / 001 – P 005	Horizontal Shearing Unit with 2 Rams (1 In Each Direction)	1set
NL 1030 X / 001 – P 006	Vertical Force Ram Unit	1no.
NL 1030 X / 001 – P 007	50kN x 1kN Pressure Gauge c/w Quick Coupling (Male)	2nos.
NL 7020 X / 006	Dial Indicator 25 mm x 0.01 mm	1no.

*1 Copy of Manual Instruction

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ROCK TEST HAMMER

Standard: ASTM D5873

Compression Strength

The hammer is used for rock classification test. Simple and easy to use and is similar to used for concrete test. The level of impact energy is 0.074 kgm percussion energy. Specimen of rock cores is positional horizontally and the rebound index is obtained from the average of several measurements performed perpendicularly to the longitudinal axis.

Technical Specifications :

Model Number	NL 1033 X / 001
Approx. Weight	0.75 kg
Dimension Of Case	350 (L) x 85 (W) x 85 (H) mm
Level Of Impact Energy	0.074 kgm

Optional Accessories :

Model Number	Accessories Description
NL 1033 X / 001 – A001	Rock Cradle



NL 1033 X / 001 - A001





VOID CONTENT APPARATUS (FINE AGGREGATE)

Standard: ASTM C1252, AASHTO T304

Flakiness & Elongation Index

Used to determine the uncompacted void content of a fine aggregate sample. The method indicates the angularity, sphericity and workability of fine aggregate in a mixture for which it may be used.

Technical Specifications :

Model Number	NL 1034 X / 001
Dimension (mm)	300 (L) x 300 (W) x 450 (H)
Approx. Weight	4 kg

Set Consists Of :

Model Number	Parts Description	Qty
NL 1034 X / 001 – P 001	Funnel Stand	1no.
NL 1034 X / 001 – P 002	Cylindrical Measure	1no.
NL 1034 X / 001 – P 003	Funnel with Specified Hopper	1no.
NL 1034 X / 001 – P 004	Glass Plate for Calibration	1no.
NL 1034 X / 001 – P 005	300 mm Dia. Pan	1no.
NL 7011 SS / 001	Flexible Spatula	1no.

*1 Copy of Manual Instruction



VOID CONTENT APPARATUS (COARSE AGGREGATE)

Standard: AASHTO T326

Uncompacted Void Content

Used to determine uncompacted void content of coarse aggregate utilizes a scaled-up & procedure similar to evaluation of fine aggregate.

Technical Specification :

Model Number	NL 1035 X / 001
Dimension (mm)	180 (L) x 210 (W) x 595 (H)
Approx. Weight	12 kg

Set Consists Of :

Model Number	Accessories Description	Qty
NL 1035 X / 001 – P 001	Hopper with Stand Unit	1no.
NL 1035 X / 001 – P 002	Steel Measuring Container	1no.
NL 1035 X / 001 – P 003	Glass Plate	1no.
NL 5001 X / 001 – A 023	Straight Edge	1no.

*1 Copy of Manual Instruction



END OVER END SHAKER

Standard: BS 1377:2, EN 19972-2

Particle Density, Gas Jar Method

Used to determine the specific gravity soil. This apparatus consists of motorized drive unit.

Technical Specification :

Model Number	NL 1036 X / 001
Dimension (mm)	850 (L) x 550 (W) x 400 (H)
Rotational Speed	50 r.p.m.
Approx. Weight	20 kg
Power	240 V, 50 / 60 Hz, 1 ph, 150 W

Set Consists Of :

Model Number	Parts Description	Qty
NL 1036 X / 001 – P 001	Gas Jar with Glass Cover	2nos.
NL 1036 X / 001 – P 002	Rubber Stopper	2nos.