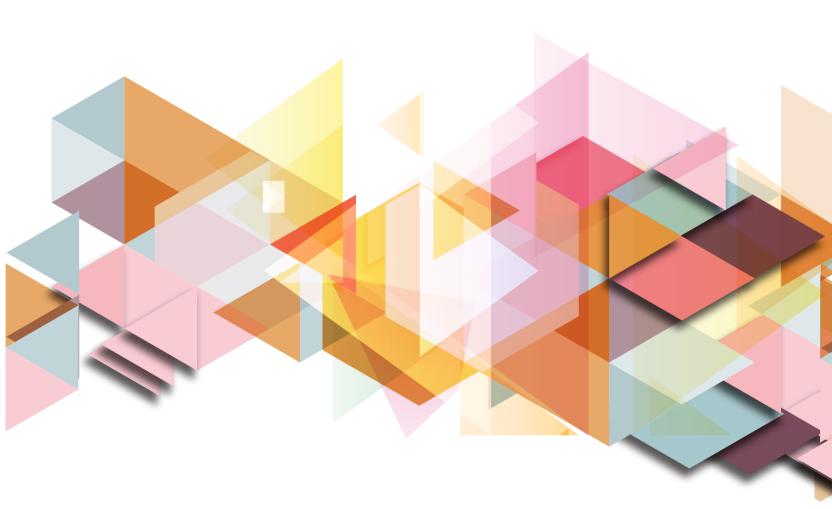


SOIL



Catalog 2019

Soil

Soil is one of the oldest forming structures that our planet is formed from. Soil is a loose rocky material that is vastly used in the construction industry. Hence it is very important to test the ground soil before construction and to know the type and classification of the soil before any project.

The type of soil can be identified by several parameters one of which the percentage of clay, siltor sand found in its composition. This classification will determine the characteristics of the soil used in the civil engineering project.

Other physical parameters such as moisture content, shear strength, elasticity, specific gravity, density, degree of compaction, penetration resistance, consistency, bearing capacity, hydraulic conductivity, permeability and consolidation can effect the soil characteristics and behaviour during construction.

The testing equipment described in this section are carefully designed and manufactured to the highest international standard necessary to achieve accurate and repeatable results in testing soil material.



Soil Color Chart

DESCRIPTION:

The Color Chart is used to judge the color of rocks, archeological specimens and soil samples.

It includes are 115 color chips with the Munsell numerical designation for identifying the range of rock colors.

Works with either wet or dry specimens. Excellent for describing the color of medium to fine-grained rocks.

Also helpful when working with coarse-grained rocks.

A neutral mask is included for isolating individ ual colors.

EN 1426; ASTM D5; AASHTO T49

MAIN FEATURES:

• Tabbed design helps find information quickly

- Allows easy visual comparison of soil colors
- Water-resistant
- Light-weight



ORDERING: SL 0100 Soil Color Chart

SL 0101 Tropical Soil Color Chart

SL 0102 Rock Color Chart

TECHNICAL SPECIFICATIONS:

Product Dimensions152 xEstimated Shipping Weight

152 x 203 mm W x H 0.91 kg

Soil Sampling Kit

DESCRIPTION:

The Soil Sampling Kit is designed to obtain samples for soil investigation and exploration purposes. The set provide all the items needed in a convenient carrying case.

We offer several models for Soil Sampling Kit that can suit all purposes.

Basic Mini Soil Sampling Kits includes:

One regular auger, one mud auger, four 3' extensions, one rubber-coated cross handle, and one poly-canvas case.

Environmental Soil Sampling Kit includes: three 3-1/4" dia. thread-on augers (regular, mud and sand), one split-core sampler with slip wrench, one cross handle, and three 4' extensions

Soil Core Sampler Kit with Hammer Attachment kits includes: one butyrate retaining liner and two polyethylene liner caps.

Basic Soil Sampling Kit includes: three 3-1/4" dia. thread-on augers (mud, soil and sand), 2" dia. x 6"L thread-on core sampler with hammer attachment, butyrate liner, three 4'L thread-on extensions, rubber-coated thread-on cross handle, 2" cleaning brush, and two crescent wrenches.

TECHNICAL SPECIFICATIONS: Weight (approx.) 10 kg

ASTM D420 ASTM D1452 AASHTO T86

MAIN FEATURES:

- Stainless steal
- Easy to use

ORDERING: SL 0103 Basic Soil Sampling Mini Kits

SL 0104 Environmental Soil Sampling Kit

SL 0105 Soil Core Sampler Kit

SL 0106 Basic Soil Sampling Kit



Power Auger Head

DESCRIPTION:

The Power Auger Head makes it easy to quickly dig holes for fence posts, signs, landscaping and soil sampling.

The Power Auger Head has an Ergonomic designed for optimum comfort.

It comes with a 4.5 KW two stroke engine, equipped with a lever preventing accidental acceleration and a Quick-fit spigot-socket coupler for swift attachment, replacement of bits and 3 Augers 4', 6' 10'.



TECHNICAL SPECIFICATIONS:

| Displacement | (cc)52cc |
|----------------|--|
| Fuel type 25 | 1 oil / fuel premix, 89+ Octane unleaded |
| Horsepower | (hp)2 |
| Speed (max) | 320 RPM |
| Maximum Torque | 45 ft. lbs. |
| Sound rating | 102.4 Db |
| Product Height | 33-0.95 cm |
| Product Length | 27.9 cm |
| Product Weight | 9.11 Kg |
| Product Width | 53.34-1.27 cm |

Water Level Indicator

DESCRIPTION:

The water level indicators are used to determine the water level in boreholes and wells.

Drum mounted, with an ON/OFF switch indicator and audio signal when probe touches the water.

The cable is marked at intervals and is battery operated.

TECHNICAL SPECIFICATIONS: Weight (approx.) 10 kg



MAIN FEATURES:

- Stainless steal
- Easy to use

ORDERING:

SL 0107 Power Auger Head complete

ACCESSORIES:

SL 0107-1 Auger 60 mm dia x 1 m long

SL 0107-2 Auger 80 mm dia x 1 m long

SL 0107-3 Auger 100 mm dia x 1 m long

SL 0107-4 Auger 150 mm dia x 1 m long

SL 0107-5 Auger 200 mm dia x 1 m long

SL 0107-6 Extension rod

MAIN FEATURES:

• Easy-to-use

ORDERING: SL 0108 Water level indicators 50m

SL 0109 Water level indicators 100m

SL 0110 Water level indicators 150m

SL 0111 Water level indicators 200m



Water Level Indicator

TECHNICAL SPECIFICATIONS:

| Measuring Range | 50m, 100m, 150m, 200m | |
|---|---|--|
| Accuracy | 1 cm for a measuring range of 100m | |
| Reproducibility | 0.5 cm | |
| Pressure Tightness | 10 bar (up to 50 var possible) | |
| Probe | Chromium-plated brass | |
| Standard Version | 14 mm dia. 140 mm long | |
| Special Version | 10 mm dia. 320 mm long | |
| Cable | | |
| polyamide-coated steel tape, graduation in millimeters (mm in centimeters (cm) and numbering in decimeters in black co | | |
| | | |
| Cable Drum | Hard Rubber, plastic material and temperature resistant | |
| Power Supply | 3V DC.2 baby-cells each 1.5V | |
| | | |

Proctor Penetrometer (spring type)

DESCRIPTION:

The Proctor Penetrometer is used for determining the penetration resistance of fine-grained soils.

The unit consists of a special calibrated spring dynamometer with a pressure-indicating scale on the stem of the handle.

It comes with a stainless steel adaptor stem for larger needles.

The pressure scale is calibrated to 100 lbs. by 1 lb. subdivisions. There is a major division located at each 10 lb. interval.

A sliding ring on the stem indicates the maximum load obtained during the test.

ASTM D 1558

MAIN FEATURES:

Scale graduations
Threaded needles are interchangeable

ORDERING:

SL 0112 Proctor penetrometer complete set with needle point.

ACCESSORIES:

SL 0112-1 Set of spare needle point (0.25, 0.5, 1, 1.5, 2, 3, 5, 6 cm2)

0 - 55ka

1kg

3.5kg

| | Load scale |
|------------------------|-------------------------------------|
| | Subdivision with max load indicator |
| SPECIFICATIONS: | Weight approx. |

Proving Ring Penetrometer

DESCRIPTION:

Used to determine the bearing capacity of sub grades, or to measure soil compaction.

Supplied complete with calibration chart, 30°, 6.45 sq cm cone; 1.1kN capacity proving ring; brake type dial indicator, holds final reading until manually released; 19mm dia shaft, graduated at 152mm intervals; 19mm dia extension rod, graduated at 152mm intervals; cast aluminum.

TECHNICAL SPECIFICATIONS: Weight (approx.) 4kg



MAIN FEATURES:

• Light and easy to handle in the field.

ORDERING:

SL 0113 Proving ring Penetrometer complete

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EN 1426; ASTM D5; AASHTO T49

Light Weight Deflectometer

DESCRIPTION:

The dynamic plate load test performed with the Lightweight deflectometer is used to determine the soil bearing capacity and compaction quality of soils and non-cohesive subbases, as well as for soil improvement applications.

Built-in soil layers can easily be tested without load abutment, facilitating quick assessments of test lots even under limited space conditions.

The test method is suited to coarse-grain and mixed grain soils with a maximum grain size of 63mm and can be used to determine the dynamic modulus of deformation of soil in the range Evd = 15 to 70 MN/m².

Applications

- Road and railway construction, earth moving
- Quality assurance in canal construction
- Compaction monitoring in pipe trenches and cable ducts
- Testing of pavement bedding
- Testing of foundation backfill
- Quality inspection in boreholes
- Testing of modulus of deformation in line with soil exploration

TECHNICAL SPECIFICATIONS:

Loading mechanism

| Total weight | 15 kg |
|----------------------|---|
| Drop weight | 10 kg |
| Maximum impact force | 7.07 kN |
| Duration of impact | 17 ms |
| Material | zinc coated/hard-chrome plated steel |

ASTM E2835-11; TP-BF-StB part 8.3; ZTV E-StB 09; ZTV T-StB 95; ZTV A- StB 97; RVS 8; RIL 836

MAIN FEATURES:

- Fast and cost-saving: maximum 2 minutes per measuring point
- No vehicle required
- Immediate on-site evaluation of test results
- It can be easily operated and carried by one person only
- Testing can be achieved in difficult to reach locations

ORDERING:

SL 0114

Lightweight deflectometer used to determine the bearing capacity and compaction quality of soils and non-cohesive subbases. Printer & PC-Software

ACCESSORIES:

SL 0114-1

Transport cart for easier on-site transport of the Lightweight deflectometer between the measuring points

SL 0114-2

Magnetic base plate for proper positioning of loading unit

SL 0114-3

Carrying case for secure transport of the Lightweight deflectometer



Load plate

| Total weight | 300 x 20 mm |
|--------------|-------------------|
| Diameter | 15 kg |
| Material | zinc coated steel |

Electronic settlement measuring instrument

| Interfaces | USB, Thermal-Printer, GPS, PC software included |
|-----------------------------------|--|
| Power supply | 4 x R6 batteries |
| Dimensions | 210 x 100 x 45 mm |
| Settlement measuring range | 0.1 to 2.0 mm ± 0.02 mm |
| Measuring range | Evd<225 MN/m2 |
| Temperature range | 0 to 40°C |
| Storage capacity of measured data | 500 series |

Poket Dial Penetrometer

DESCRIPTION:

The Pocket Penetrometer is used in field exploration and comparing similar types of soil.

Classifying cohesive soils in terms of consistency and estimation of approximate unconfined compressive strength and shear strength.

The cylindrical tip of 0.32 cm2 area penetrate into the soil up to 6mm market point. A cursor on the scale reads directly unconfined compressive strength in kgf/cm2.



MAIN FEATURES:

- Portable
- Easy-to-use

ORDERING:

SL 0115 Heavy Duty Pocket Penetrometer

SL 0116 Heavy Duty Pocket Penetrometer with three interchangeable tips

TECHNICAL SPECIFICATIONS:

| | SL 0115 | SL 0116 |
|------------------------|------------------------------------|-----------------------------------|
| | | 4.5 mm dia. for very hard soil; |
| | 6.35 mm for medium and soft soil; | 6.35 mm for medium and soft soil; |
| | 8.98 mm for soft soil. | 8.98 mm for soft soil. |
| Measuring range | 0 to 1000 kPa | 0 to 500 kPa |
| Dimensions (assembled) | 210 mm lenght x 20 mm dia. approx. | 20 mm dia. x 173 mm length |
| Weight approx. | 0.5 kg | 0.5 kg |

Dynamic Cone Penetrometer

DESCRIPTION:

The Dynamic Cone Penetrometer is used for the rapid, in situ measurement of structural properties of existing road pavement constructed with unbound materials.

It incorporates an 8 kg weight dropping through a height of 575 mm and 60° cone having a diameter of 20 mm. with the standard DCP measurements can be made down to a depth of approximately 850 mm or when extension shafts are used to a recommended maximum depth of 2 m.

Readings are usually taken after a set number of blows, changing the number according to the strength of the layer being penetrated.

BS 1377, 1924, 812; EN 932-1

MAIN FEATURES:

Efficient method

ORDERING:

SL 0117 Dynamic Cone Penetrometer set

ACCESSORIES: SL 0117-1

Cones

SL 0117-2 Extension Rods

TECHNICAL SPECIFICATIONS:

| Dimensions | 1200x350x200 mm |
|------------------|-----------------|
| Weight (approx.) | 30 kg |

Static Cone Penetrometer

DESCRIPTION:

The static Cone penetrometer is use to evaluate the consistency of soils, their level of compaction and the bearing capacity of shallow foundations and pavement subgrades.

Specifically developed for use in fine grained soils, particularly soft soils, to depths of 30 feet. They use a 60° cone with an area of 1.5 cm². An optional cone with a 3 cm² area is available for use in very soft soils.

Dual rod construction isolates cone resistance from shaft friction

Pressure gauge ranging from 0 to 70 kg/cm² reads cone resistancedirectly, eliminating need for proving ring conversions. Stainless steel and anodized aluminium construction for reliable performance.

TECHNICAL

SPECIFICATIONS:

| Dimensions | Penetrometer: 610 x 203 mm Starter Rod: 89 x 610 mm |
|---------------------------|--|
| | Starter Rod: 89 x 610 mm |
| Estimated Shipping Weight | 3.63 kg |

Dial Penetrometer

DESCRIPTION:

The Dial Penetrometer is used to check the penetration power of soil. The Dial Penetrometer comes in three different versions, the dial has a maximum value holding system with 0 setting by push button.

The Dial dia is 60 mm, with peak holding features.



TECHNICAL SPECIFICATIONS:

| Penetrometer Dimensions | 63 x 114mm Dia. x H |
|---------------------------|---------------------|
| Net Weight | 369 g |
| Estimated Shipping Weight | 0.45 kg |

MAIN FEATURES:

- Low soil friction
- Simple to use
- Uses 60° penetration cones with
- 1.5cm² or 3.0cm² area
- Direct gauge reading

ORDERING: SL 0118 Static cone penetrometer

Standard model include: A 60° cone with a maximum area of 1.5 cm2 A started Rod Assembly designed to withstand an axial force of 250 lbf 340 N.m) maximum, Pressure gauge marked in kg/cm², Operating Instruc tions and parts list

BS 1377, 1924, 812; EN 932-1

MAIN FEATURES:

- Provides unconfined compressive strength
- Tests a wide range of cohesive soils
- Non-corrosive
- User-calibrated dial

ORDERING:

SL 0119 Range 0 to 5 kgf/cm2, plungers dia is 6.35 mm

SL 0120 Range 3 to 15 kgf/cm2, plungers dia is 6.35 mm

SL 0121 Range 0 to 6 kgf/cm2, plungers dia is 6.35 mm - 10 - 15 - 20 - 25

Pocket Shear Vane Device

DESCRIPTION:

The Pocket Shear Vane Apparatus is widely used to perform onsite or lab measurements of excavations covering trenches and test pits, thin-wall or split core samples, by providing a quick and efficient method for shear strength measurements.

Supplied complete with:

Standard 25mm dia, vane range 0 to 10N/cm², Sensitive Vane adaptor, range 0 to 2N/cm², High capacity vane adaptor range 0 to 25N/cm² in a plastic carrying case.

MAIN FEATURES:

- Suitable for laboratory and site usage.
- Used for determining the shear strength of cohesive soils.

ORDERING:

SL 0122 Pocket Shear Vane apparatus Complete Vane



MAIN FEATURES:

Standard 25 mm Diameter Vane

Field Inspection Shear Test

DESCRIPTION:

TECHNICAL

Van type

Dimensions

Weight (approx.)

SPECIFICATIONS:

Sensitive Vane Adaptor

High Capacity Vane Adaptor

The Field Inspection Vane Tester can be used to determine the maximum shearing force that can be exercised on a soil.

0-10 N/cm'

240x210x50 mm

0-2 N/cm' 0-25 N/cm'

1,5 kg

Measurement in the field (on the surface, in profile pits or at the bottom of bore holes) as well as in the laboratory (on samples) are possible.

The shear stress measured can be read on a clearly readable scale ring.

In soft soils it is not necessary to make a bore hole first. In order to detemine the friction on the extension rods a dummy vane is available in these situations.

TECHNICAL SPECIFICATIONS:

| Maximum measuring depth | 3 m |
|--------------------------|-------------------------------|
| Maximum shear stress | 200 kPa |
| Measuring accuracy | < ± 10% |
| Reading accuracy | 1% |
| Registration type | manual |
| Package size | 56 x 12 x 5 cm |
| Vane size (shear stress) | 5.12, 8, 12.9 cm ² |
| Weight | 2.95 kg |

Field inspection vane tester, standard set for measurements to 200 kPa (20 t/m2) and a depth of 3m, complete with 3 vanes (16x 32mm, 20x40 mm and 25.4x50.8 mm), dummy vane, extension rods, tools and carrying bag

SL 0123

Unconfined compressive strength

Heavy duty, stainless steel construction

ORDERING:

Field Inspection Vane Testing Kit

ASTM D2573

Range

Laboratory Vane Apparatus

DESCRIPTION:

The Laboratory Vane Apparatus is used to determine the shear strength in soft soils of undisturbed or remolded samples.

innes innes

The hand operated frame has a 200mm diameter base plate capable of accepting standard specimen molds and sample tubes. Scales indicate the load application and any vane deflection.

> It is also available with a motorizing attachments that can be fitted to automate the test process and provide better accuracy.

If purchased with the machine, the motorizing attachment will be fitted and tested. Alternatively, the motorizing attachment can be purchased at a later date and easily fitted at the customer site.

TECHNICAL SPECIFICATIONS:

| Dimensions | 200 X 240 X 560mm |
|------------------|-------------------|
| Weight (approx.) | 10 kg |

ASTM D4648; BS 1377

MAIN FEATURES:

- Rapid way of determining the shear strength in soft soils
- Easy to use
- Manual Unit can easily be updated to a motorized version
- Two calibrated springs provided
- Supplied with 12.7mm x 12.7mm vane

ORDERING:

SL 0124 Manual Laboratory Vane Apparatus

SL 0125 Motorized Laboratory Vane Apparat<u>us</u>

ACCESSORIES:

SL 0124-1 Vane 12.7 mm x 12.7 mm

SL 0124-2 Vane 12.7 mm x 19 mm

SL 0124-3 Vane 12.7 mm x 25.4 mm

SL 0124-4 Attachment to hold a sample tube of 38 mm or 100 mm dia

Laboratory Mixer

DESCRIPTION:

This Laboratory Mixer is suitable for sample preparation of soils, bituminous concrete and cement mortars.

The Laboratory mixer is a planetary beater type, where the flat beaters rotate in the opposite direction to the orbit around the inside of the mixing bowl.

The hand lever can raise, lower and lock the bowl at the desired position. Adjustment is allowed for proper clearance between the bowl and the beater.

It is available in several sizes : 5, 7.5, 10, 20, 30 ltrs.

TECHNICAL SPECIFICATIONS:

| Dimensions | 700x750x800 mm |
|------------------|----------------|
| Weight (approx.) | 75 kg |
| Power | 550 W |

BS 598-107, 1377-1, 1924-1, EN 12697-35

MAIN FEATURES:

- Uniform mixing
- Direct gear drive transmission
- Three speeds set
- Control lever

ORDERING:

SL 0126 Laboratory Mixer 5 Itrs

SL 0127 Laboratory Mixer 7.5 Itrs

SL 0128 Laboratory Mixer 10 Itrs

SL 0129 Laboratory Mixer 20 Itrs

SL 0130 Laboratory Mixer 30 Itrs

SL 0130-1 Spare Stainless Bowl <u>30 ltrs</u>

ACCESSORIES: SL 0126-1 Spare Stainless Bowl 5 Itrs

SL 0127-1 Spare Stainless Bowl 7.5 ltrs

SL 0128-1 Spare Stainless Bowl 10 ltrs

SL 0129-1

Spare Stainless Bowl 20 ltrs

Porcelain Mortar and Rubber Head Pestle

DESCRIPTION:

The Porcelain Mortar and Rubber Head Pestle is used for sample reduction by gently crushing individual particles.

TECHNICAL SPECIFICATIONS: Weight (approx.) 1Kg



ASTM D420; BS 1377:2; BS 1924:1

ORDERING:

SL 0131 Porcelain Mortar and Rubber Head Pestle complete set

ACCESSORIES:

SL 0131-1 Spare Porcelain Mortar 125 mm dia

SL 0131-2 Spare Rubber Head Pestle

Laboratory Soil Grinder

DESCRIPTION:

It is an efficient method for reducing agglomerations of caked soil to individual grains, and much less labor intensive than manual mortar and pestle operation. It preserves true grain size for accurate and repeatable test results.

The hopper has a capacity of about 1 pint (0.6L) and features a manually operated gate to control feed rate to the grinding chamber.

Operation is simple, just load the hopper, start the grinder and use the gate to control material feed.

A #10 (2.0mm) perforated stainless steel plate is included and retains larger particles. Most soil types are processed completely in less than 30 seconds per pint.

The reliable direct-drive motor and grinding unit is mounted on a sturdy steel tripod stand. An in-line switch controls motor operation.

ASTM D4318

MAIN FEATURES:

- Fast, efficient sample preparation of soils
- Manually-operated gate controls feed rate

• Processes most soil types in less than 30 seconds



ORDERING:

SL 0132 Laboratory soil grinder

ACCESSORIES:

AS 0132-1 Stainless steel perforated plates No. 10

AS 0132-2 Stainless steel perforated plates No. 4

AS 0132-3 Stainless steel perforated plates No. 35

TECHNICAL SPECIFICATIONS:

| Dimensions | 305x381x483 mm |
|---------------------------|----------------|
| Estimated Shipping Weight | 15kg |

Sieves Shaker

DESCRIPTION:

The Sieve Shaker imparts a circular motion to the material being sieved so that it makes a slow progression over the surface of the sieve.

At the same time a feature of the rapid vertical movement agitates the sample which helps to clear the sieve aper tures and avoid them blinding.

The shaker is fitted with timer which can be pre-set for any duration up to 60 minutes.

This unit will accept 127inch, 200mm and 300mm sieves dia.

Wet sieving kits in the appropriate sizes may be used with this shaker.



EN 932-5; ISO 3310-1

MAIN FEATURES:

 Sieve capacity: up to twelve 200 mm (8") and up to eight 300 mm (12") sieves plus pan and cover.

ORDERING:

SL 0133 Sieve Shaker with Time Adjust-ment, for 200 mm (8") & 300 mm (12") dia. frame sieves

SL 0134 Sieve Shaker with Frequency and Time Adjustment, for 200 mm (8") & 300 mm (12") dia. frame sieves

Two models are available: One with digital timer and another one with digital timer and vibrat ing frequency controller.

TECHNICAL SPECIFICATIONS:

| Overall Dimensions | 540x372x1013 mm |
|--------------------|-----------------|
| Weight approx | 75 kg |

Electromagnetic Sieve Shaker

DESCRIPTION:

The Sieve Shaker is powered by an electromagnetic drive which has no rotating parts to wear making it maintenance free and extremely quiet in operation.

The vibratory action produced by the power unit moves the sample over the sieve in a unique way producing faster more efficient sieving, while the rapid vertical movements also help keep the apertures from pegging.

The digital controller is used to set both the process time and amplitude setting while a further control enables the vibration to run continuously or intermittently.

EN 932-5; ISO 3310-1

MAIN FEATURES:

- High screening efficiency
- Strong-vibrating force
- Simple structure and easy
- maintenance

ORDERING:

SL 0135

Electromagnetic sieve Shaker with Time Adjustment, for 200 mm (8") & 300 mm (12") dia. framè sieves

SL 0136

Electromagnetic sieve Shaker with Frequency and Time Adjustment, for 200 mm (8") & 300 mm (12") dia. frame sieves

TECHNICAL SPECIFICATIONS: Weight approx

496x406x946 mm Overall Dimensions

30 kg

10

Testing Sieves

ORDERING:

as per the table below

SL 0137-3 Sieve Set, 200 mm dia., mesh sizes of 37.5 mm (1 1/2"") - 31.5 mm (1 1/4"") - 25 mm (1"") - 19 mm (3/4"") - 12.7 mm (1/2"") - 9.5 mm (3/8"") - 4.74 mm (No.4) - 2.36 mm (No.8) - 1.19 mm (No.16) - 0.600 mm (No.30) - 0.300 mm (No.50) - 0.150 mm (No.100) - 0.074 mm (No.200) 13 analysis sieves, complete with nan and cover with pań and cover.

SL 0137-3 Sieve Set, 8 inch dia., mesh sizes of 37.5 mm (1 1/2"") - 31.5 mm (1 1/4"") - 25 mm (1"") - 19 mm (3/4"") - 12.7 mm (1/2"") - 9.5 mm (3/8"") - 4.74 mm (No.4) - 2.36 mm (No.8) - 1.19 mm (No.16) - 0.600 mm (No.30) - 0.300 mm (No.50) - 0.150 mm (No.100) - 0.074 mm (No.200) 13 analysis sieves, complete with pań and cover.

SL 0137-3 Sieve Set, 12 inch dia., mesh sizes of 37.5 mm (1 1/2"") - 31.5 mm (1 1/4"") - 25 mm (1"") - 19 mm (3/4"") - 12.7 mm (1/2"") - 9.5 mm (3/8"") - 4.74 mm (No.4) - 2.36 mm (No.8) - 1.19 mm (No.16) - 0.600 mm (No.30) - 0.300 mm (No.50) - 0.150 mm (No.100) - 0.074 mm (No.200) 13 analysis sieves, complete with pap and cover with pań and cover.

EN 933-2; ISO 3310-1; ISO 3310-2; ISO 565

ACCESSORIES:

SL 0137-1 Sieve Brush, double-ended, brass and nylon bristle

SL 0137-2 Sieve Brush, nylon, double-ended

| | | 200 1 | 0.1 | 10 in als alia | |
|---|--------------|--------------|--------------|----------------|------------------------------------|
| | 200 mm dia | 300 mm dia | 8 inch dia | 12 inch dia | Woven wire stainless steel mesh |
| | Product code | Product code | Product code | Product code | Mesh Size BS 410/ISO 3310 ASTM E11 |
| | SL 0137 | SL 0174 | SL 0211 | SL 0248 | Lid |
| | SL 0138 | SL 0175 | SL 0212 | SL 0249 | Receiver |
| | SL 0139 | SL 0176 | SL 0213 | SL 0250 | 20 micron - no. 635 |
| | SL 0140 | SL 0177 | SL 0214 | SL 0251 | 25 micron - no. 500 |
| | SL 0141 | SL 0178 | SL 0215 | SL 0252 | 32 micron - no. 450 |
| | SL 0142 | SL 0179 | SL 0216 | SL 0253 | 36 micron |
| | SL 0143 | SL 0180 | SL 0217 | SL 0254 | 38 micron - no. 400 |
| | SL 0144 | SL 0181 | SL 0218 | SL 0255 | 40 micron |
| | SL 0145 | SL 0182 | SL 0219 | SL 0256 | 45 micron - no. 325 |
| | SL 0146 | SL 0183 | SL 0220 | SL 0257 | 50 micron |
| | SL 0147 | SL 0184 | SL 0221 | SL 0258 | 53 micron - no. 270 |
| | SL 0148 | SL 0185 | SL 0222 | SL 0259 | 56 micron |
| | SL 0149 | SL 0186 | SL 0223 | SL 0260 | 63 micron - no. 230 |
| | SL 0150 | SL 0187 | SL 0224 | SL 0261 | 71 micron |
| | SL 0151 | SL 0188 | SL 0225 | SL 0262 | 75 micron - no. 200 |
| | SL 0152 | SL 0189 | SL 0226 | SL 0263 | 80 micron |
| | SL 0153 | SL 0190 | SL 0227 | SL 0264 | 90 micron - no. 170 |
| | SL 0154 | SL 0191 | SL 0228 | SL 0265 | 100 micron |
| | SL 0155 | SL 0192 | SL 0229 | SL 0266 | 106 micron- no. 140 |
| | SL 0156 | SL 0193 | SL 0230 | SL 0267 | 112 micron |
| | SL 0157 | SL 0194 | SL 0231 | SL 0268 | 125 micron - no. 120 |
| | SL 0158 | SL 0195 | SL 0232 | SL 0269 | 140 micron |
| | SL 0159 | SL 0196 | SL 0233 | SL 0270 | 150 micron - no. 100 |
| | SL 0160 | SL 0197 | SL 0234 | SL 0271 | 160 micron |
| | SL 0161 | SL 0198 | SL 0235 | SL 0272 | 180 micron - no. 80 |
| | SL 0162 | SL 0199 | SL 0236 | SL 0273 | 200 micron |
| | SL 0163 | SL 0200 | SL 0237 | SL 0274 | 212 micron - no. 70 |
| | SL 0164 | SL 0201 | SL 0238 | SL 0275 | 224 micron |
| | SL 0165 | SL 0202 | SL 0239 | SL 0276 | 250 micron - no. 60 |
| S | SL 0166 | SL 0203 | SL 0240 | SL 0277 | 280 micron |
| | SL 0167 | SL 0204 | SL 0241 | SL 0278 | 300 micron - no. 50 |
| | SL 0168 | SL 0205 | SL 0242 | SL 0279 | 315 micron |
| | SL 0169 | SL 0206 | SL 0243 | SL 0280 | 355 micron - no. 45 |
| | SL 0170 | SL 0207 | SL 0244 | SL 0281 | 400 micron |
| | SL 0171 | SL 0208 | SL 0245 | SL 0282 | 425 micron - no. 40 |
| | SL 0172 | SL 0209 | SL 0246 | SL 0283 | 450 micron |
| S | SL 0173 | SL 0210 | SL 0247 | SL 0284 | 500 micron - no. 35 |

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| Product code Product code Mesh size BS 410/150 3310 ASTM E11 SL0285 SL0350 SL0416 SL0481 560 micron SL0285 SL0353 SL0416 SL0481 560 micron SL0285 SL0353 SL04118 SL0483 630 micron SL0285 SL0354 SL0419 SL0483 630 micron SL0290 SL0355 SL0420 SL0485 890 micron no. 20 SL0291 SL0357 SL0421 SL0485 890 micron no. 20 SL0292 SL0357 SL0422 SL0487 900 micron no. 14 SL0295 SL0360 SL0423 SL0489 112mm SL0296 SL0296 SL0361 SL0427 SL0492 140mm no. 14 SL0295 SL0364 SL0423 SL0494 170mm - no. 12 SL0301 SL0366 SL0431 SL0496 200mm - no. 10 SL0302 SL0366 SL0431 SL0496 200mm - no. 10 SL0303 SL0365 SL043 | 200 mm dia | 300 mm dia | 8 inch dia | 12 inch dia | Woven wire stainless steel mesh |
|---|------------|--------------|--------------|--------------|---------------------------------|
| SL 0286 SL 0351 SL 0416 SL 0481 560 micron SL 0287 SL 0353 SL 04118 SL 0483 630 micron non SL 0288 SL 0354 SL 0419 SL 0483 630 micron non non SL 0290 SL 0355 SL 0420 SL 0485 800 micron no. non non< | | Product code | Product code | Product code | |
| St. 0287 St. 0352 St. 0417 St. 0482 600 micron - no. 30 St. 0288 St. 0353 St. 0419 St. 0484 710 micron - no. 25 St. 0290 St. 0355 St. 0421 St. 0486 800 micron - no. 20 St. 0291 St. 0356 St. 0422 St. 0487 900 micron - no. 18 St. 0292 St. 0358 St. 0423 St. 0488 1.00mm - no. 18 St. 0293 St. 0356 St. 0424 St. 0489 1.12mm St. 0295 St. 0361 St. 0426 St. 0491 1.25mm St. 0295 St. 0363 St. 0428 St. 0493 1.40mm - no. 14 St. 0295 St. 0363 St. 0428 St. 0491 1.70mm - no. 12 St. 0300 St. 0367 St. 0493 St. 0492 1.00mm St. 0304 St. 0367 St. 0431 St. 0499 2.20mm - no. 7 St. 0304 St. 0367 St. 0431 St. 0499 2.30mm - no. 7 St. 0304 St. 0372 St. 0437 St. 0409 2.30mm St. 0304 | | | | | |
| SL 0288 SL 0353 SL 0418 SL 0483 630 micron SL 0289 SL 0354 SL 0442 SL 0485 800 micron no. SL 0291 SL 0355 SL 0421 SL 0485 850 micron no. SL 0292 SL 0357 SL 0422 SL 0487 900 micron no. SL 0293 SL 0359 SL 0424 SL 0489 112mm no. 16 SL 0295 SL 0360 SL 0425 SL 0490 11.18mm no. 16 SL 0295 SL 0361 SL 0425 SL 0491 1.25mm no. 14 SL 0296 SL 0361 SL 0429 SL 0491 1.06mm no. 14 SL 0295 SL 0364 SL 0429 SL 0494 1.70mm - no. 12 140mm 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 11 16 16 16 16< | | | | | |
| SL0289 SL0354 SL0419 SL0484 710 micron - no. 25 SL0290 SL0355 SL0420 SL0486 800 micron SL0291 SL0356 SL0421 SL0487 900 micron SL0293 SL0358 SL0423 SL0488 110mm - no. 18 SL0294 SL0359 SL0424 SL0490 112mm - no. 16 SL0294 SL0359 SL0425 SL0491 12mm - no. 14 SL0295 SL0364 SL0492 SL0491 12mm - no. 14 SL0296 SL0363 SL0428 SL0491 12mm - no. 12 SL0300 SL0365 SL0431 SL0496 20mm - no. 10 SL0301 SL0365 SL0431 SL0496 20mm - no. 10 SL0302 SL0367 SL0435 SL0492 23mm - no. 6 SL0304 SL0369 SL0435 SL0492 23mm - no. 6 SL0305 SL0371 SL0436 SL0503 35mm - no. 6 SL0306 SL0371 SL0404 SL0506 450mm | | | | | |
| S10290 S10355 S10420 S10485 800 micron no. 20 S10291 S10357 S10422 S10487 900 micron no. 20 S10293 S10358 S10423 S10488 100mm - no. 18 S10293 S10358 S10424 S10489 112 mm S10295 S10360 S10425 S10490 118mm - no. 16 S10297 S10362 S10425 S10491 128 mm S10298 S10363 S10425 S10493 140mm - no. 14 S10299 S10364 S10429 S10493 140mm - no. 12 S10301 S10366 S10491 S10497 220 mm S10303 S10368 S10493 S10499 250 mm S10304 S10305 S10370 S10435 S10502 33mm - no. 6 S10305 S10370 S10435 S10502 335mm - no. 6 S10306 S10371 S10436 S10502 335mm - no. 6 S10308 S10373 S10437 S10502 335mm - no. 5 S10310 S10373 S10437 S10508 S100mm - no. 5 S10311 S10373 S10440 S10509 400mm - no. 5 S10311 S10373 S10441< | | | | | |
| SL0291 SL0356 SL0421 SL0486 850 micron - no. 20 SL0292 SL0357 SL0422 SL0487 900 micron SL0294 SL0359 SL0424 SL0489 112 mm SL0296 SL0360 SL0425 SL0490 113mm - no. 16 SL0296 SL0361 SL0426 SL0491 12mm - no. 14 SL0298 SL0363 SL0428 SL0492 140mm - no. 14 SL0298 SL0364 SL0492 SL0494 170mm - no. 12 SL0300 SL0365 SL0431 SL0496 2.00mm - no. 10 SL0301 SL0366 SL0431 SL0496 2.00mm - no. 7 SL0302 SL0366 SL0431 SL0499 2.30mm - no. 7 SL0305 SL0370 SL0436 SL0502 3.35mm SL0306 SL0374 SL0438 SL0503 3.55mm SL0306 SL0374 SL0438 SL0504 4.00mm - no. 5 SL0310 SL0437 SL0438 SL0504 4.00mm - no. 6 | | | | | |
| SL 0292 SL 0357 SL 0422 SL 0487 900 micron SL 0293 SL 0358 SL 0424 SL 0489 1.12 mm SL 0295 SL 0360 SL 0425 SL 0490 1.12 mm SL 0296 SL 0360 SL 0426 SL 0491 1.25 mm SL 0297 SL 0362 SL 0427 SL 0493 1.40 mm - no. 14 SL 0298 SL 0363 SL 0429 SL 0493 1.40 mm - no. 12 SL 0299 SL 0364 SL 0429 SL 0495 1.80 mm SL 0301 SL 0366 SL 0431 SL 0497 2.24 mm SL 0303 SL 0368 SL 0437 SL 0499 2.50 mm SL 0304 SL 0499 SL 0501 3.15 mm SL 0305 SL 0371 SL 0436 SL 0499 2.50 mm SL 0306 SL 0371 SL 0436 SL 0499 2.50 mm SL 0310 SL 0371 SL 0437 SL 0504 4.00 mm - no. 5 SL 0310 SL 0375 SL 0440 SL 0507 SL 0310 SL 0311 | | | | | |
| SL 0293 SL 0358 SL 0423 SL 0488 1.00mm - no. 18 SL 0294 SL 0360 SL 0425 SL 0490 1.18mm - no. 16 SL 0296 SL 0360 SL 0427 SL 0492 1.40mm - no. 14 SL 0297 SL 0363 SL 0427 SL 0492 1.40mm - no. 14 SL 0298 SL 0363 SL 0428 SL 0493 1.60mm - no. 12 SL 0300 SL 0365 SL 0430 SL 0494 1.70mm - no. 12 SL 0300 SL 0365 SL 0431 SL 0496 2.00mm - no. 10 SL 0301 SL 0366 SL 0431 SL 0496 2.00mm - no. 10 SL 0302 SL 0367 SL 0432 SL 0497 2.24 mm SL 0302 SL 0367 SL 0435 SL 0500 2.30mm - no. 6 SL 0304 SL 0356 SL 0336 SL 0377 SL 0436 SL 0502 3.35mm - no. 6 SL 0306 SL 0374 SL 0436 SL 0506 4.50mm - no. 4 SL 0310 SL 0376 SL 0441 SL 0507 SO 0mm SL 0311 | | | | | |
| St.0294 St.0359 St.0424 St.0489 1.12 mm St.0295 St.0361 St.0425 St.0490 1.18 mm - no.16 St.0297 St.0362 St.0427 St.0491 1.25 mm St.0297 St.0362 St.0428 St.0493 1.60 mm St.0298 St.0364 St.0428 St.0493 1.60 mm St.0300 St.0366 St.0430 St.0495 1.80 mm St.0301 St.0366 St.0433 St.0498 2.36 mm - no.10 St.0303 St.0366 St.0433 St.0498 2.36 mm - no.8 St.0303 St.0366 St.0433 St.0498 2.36 mm - no.7 St.0304 St.0373 St.0434 St.0503 3.55 mm St.0306 St.0373 St.0443 St.0503 3.55 mm St.0310 St.0373 St.0442 St.0507 500 mm - no.4 St.0310 St.0373 St.0442 St.0507 500 mm - 3/4 St.0313 St.0347 St.05050 5.60 mm - 3/4 < | | | | | |
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| St. 0296 St. 0361 St. 0426 St. 0491 1.25 mm St. 0297 St. 0362 St. 0423 St. 0492 1.40mm - no. 14 St. 0299 St. 0364 St. 0423 St. 0493 1.60 mm St. 0301 St. 0366 St. 0413 St. 0495 1.80 mm St. 0301 St. 0366 St. 0431 St. 0497 2.24 mm St. 0303 St. 0368 St. 0433 St. 0499 2.50 mm St. 0303 St. 0370 St. 0435 St. 0500 2.80mm - no. 8 St. 0305 St. 0370 St. 0435 St. 0500 2.80mm - no. 7 St. 0306 St. 0371 St. 0433 St. 0502 3.35mm - no. 6 St. 0308 St. 0373 St. 0443 St. 0504 4.00mm - no. 5 St. 0310 St. 0375 St. 0440 St. 0507 5.00mm St. 0312 St. 0377 St. 0442 St. 0506 4.50 mm St. 0313 St. 0443 St. 0506 4.50 mm 5.0 St. 0313 St. 0444 St. 0507 | | | | | |
| St. 0297 St. 0362 St. 0427 St. 0492 1.40mm - no. 14 St. 0298 St. 0363 St. 0428 St. 0493 1.60mm St. 0299 St. 0365 St. 0430 St. 0494 1.70mm - no. 12 St. 0300 St. 0365 St. 0431 St. 0496 2.00mm - no. 10 St. 0302 St. 0367 St. 0432 St. 0498 2.36mm - no. 8 St. 0302 St. 0366 St. 0434 St. 0499 2.50mm St. 0304 St. 0370 St. 0434 St. 0699 2.50mm St. 0307 St. 0371 St. 0436 St. 0500 2.80mm - no. 7 St. 0307 St. 0372 St. 0434 St. 0502 3.35mm - no. 6 St. 0307 St. 0432 St. 0504 4.00mm - no. 5 St. 0313 St. 0375 St. 0440 St. 0507 5.00mm St. 0311 St. 0376 St. 0443 St. 0507 5.00mm St. 0311 St. 0377 St. 0443 St. 0508 5.60mm - 3 ½ St. 0314 St. 0437 St. 0510 | | | | | |
| SL 0298 SL 0363 SL 0428 SL 0493 1.60 mm SL 0299 SL 0364 SL 0429 SL 0495 1.80 mm SL 0301 SL 0366 SL 0431 SL 0495 1.80 mm SL 0301 SL 0366 SL 0432 SL 0497 2.24 mm SL 0303 SL 0368 SL 0433 SL 0499 2.50 mm SL 0304 SL 0499 2.50 mm SL 0304 SL 0499 SL 0305 SL 0370 SL 0435 SL 0500 2.80 mm - no. 7 SL 0306 SL 0371 SL 0437 SL 0502 3.35 mm no. 6 SL 0308 SL 0373 SL 0437 SL 0503 3.55 mm SL 0310 SL 0310 SL 0375 SL 0440 SL 0505 4.50 mm SL 0314 SL 0311 SL 0376 SL 0441 SL 0508 5.60 mm - 3/4 SL 0311 SL 0378 SL 0444 SL 0508 6.70 mm - 0.265 inch SL 0313 SL 0347 SL 0514 SL 0501 7.10 mm SL 0314 SL 0444 S | | | | | |
| SL 0299 SL 0364 SL 0494 1.70mm - no. 12 SL 0300 SL 0366 SL 0431 SL 0495 1.80 nm SL 0302 SL 0366 SL 0432 SL 0496 2.20mm - no. 10 SL 0303 SL 0366 SL 0433 SL 0498 2.36mm - no. 8 SL 0304 SL 0369 SL 0433 SL 0498 2.36mm - no. 7 SL 0305 SL 0370 SL 0435 SL 0500 2.20mm - no. 7 SL 0306 SL 0371 SL 0436 SL 0501 3.35mm - no. 6 SL 0307 SL 0437 SL 0436 SL 0503 3.55mm SL 0310 SL 0374 SL 0440 SL 0505 4.50 mm SL 0311 SL 0375 SL 0441 SL 0506 4.75mm - no. 4 SL 0313 SL 0379 SL 0442 SL 0507 SOmm - 3/6 SL 0313 SL 0378 SL 0443 SL 0508 5.60mm - 3/8 SL 0314 SL 0379 SL 0444 SL 0510 6.70mm - 0.265 inch SL 0314 SL 0380 SL 0444 SL 0511 7.10 m | | | | | |
| SL 0301 SL 0366 SL 0431 SL 0496 2.00mm - no. 10 SL 0302 SL 0368 SL 0432 SL 0497 2.24 mm SL 0304 SL 0368 SL 0433 SL 0498 2.36mm - no. 8 SL 0304 SL 0369 SL 0433 SL 0498 2.30mm - no. 7 SL 0305 SL 0370 SL 0435 SL 0500 2.30mm - no. 7 SL 0306 SL 0371 SL 0436 SL 0502 3.35mm - no. 6 SL 0307 SL 0437 SL 0438 SL 0503 3.55 mm SL 0309 SL 0374 SL 0440 SL 0505 4.50 mm SL 0311 SL 0376 SL 0440 SL 0505 4.50 mm SL 0312 SL 0378 SL 0443 SL 0506 5.60 mm SL 0313 SL 0378 SL 0444 SL 0507 5.00 mm SL 0314 SL 0379 SL 0444 SL 0508 5.60 mm SL 0314 SL 0379 SL 0444 SL 0510 6.70mm - 0.265 inch SL 0314 SL 0381 SL 0446 SL 0511 7.1 | | | | | 1.70mm - no. 12 |
| \$1.0302 \$1.0367 \$1.0432 \$1.0497 2.24 mm \$1.0303 \$1.0368 \$1.0433 \$1.0498 2.36 mm no. 8 \$1.0304 \$1.0369 \$1.0435 \$1.0499 2.50 mm no. 7 \$1.0305 \$1.0370 \$1.0436 \$1.0501 3.15 mm no. 6 \$1.0307 \$1.0372 \$1.0436 \$1.0501 3.35 mm no. 6 \$1.0308 \$1.0373 \$1.0438 \$1.0503 3.55 mm no. 6 \$1.0309 \$1.0375 \$1.0440 \$1.0506 4.75 mm no. 6 \$1.0311 \$1.0375 \$1.0442 \$1.0506 4.75 mm no. 4 \$1.0312 \$1.0377 \$1.0442 \$1.0508 \$5 c0mm 3.4 \$1.0313 \$1.0378 \$1.0444 \$1.0508 \$5 c0mm 3.4 \$1.0314 \$1.0380 \$1.0444 \$1.0511 7.10 mm 2.056 inch \$1.0315 \$1.0381 \$1.04445 \$1.0511 7.10 mm 3.16 inch \$1.0317 \$1.0382 <td></td> <td></td> <td></td> <td>SL 0495</td> <td>1.80 mm</td> | | | | SL 0495 | 1.80 mm |
| St. 0303 St. 0368 St. 0433 St. 0498 2.36mm - no. 8 St. 0304 St. 0369 St. 0434 St. 0499 2.50 mm St. 0306 St. 0370 St. 0435 St. 0500 2.80mm - no. 7 St. 0306 St. 0371 St. 0437 St. 0501 3.15 mm St. 0307 St. 0437 St. 0503 3.55 mm no. 6 St. 0308 St. 0373 St. 0438 St. 0503 3.55 mm St. 0310 St. 0375 St. 0440 St. 0504 4.00mm - no. 5 St. 0311 St. 0376 St. 0441 St. 0506 4.75mm - no. 4 St. 0313 St. 0377 St. 0442 St. 0507 St. 00mm St. 0314 St. 0370 St. 0444 St. 0509 6.30mm - 3.4 St. 0314 St. 0380 St. 0444 St. 0511 7.10 mm St. 0313 St. 0380 St. 0447 St. 0512 8.00mm - 5/16 inch St. 0314 St. 0383 St. 0448 St. 0511 7.10 mm St. 0313 St. 0384 St. 0 | SL 0301 | | SL 0431 | SL 0496 | 2.00mm - no. 10 |
| SL 0304 SL 0369 SL 0435 SL 0499 2.50 mm SL 0305 SL 0370 SL 0435 SL 0500 2.80 mm - no. 7 SL 0306 SL 0371 SL 0436 SL 0501 3.15 mm SL 0307 SL 0372 SL 0438 SL 0502 3.35 mm SL 0309 SL 0374 SL 0439 SL 0504 4.00 mm - no. 5 SL 0310 SL 0375 SL 0440 SL 0506 4.50 mm SL 0311 SL 0376 SL 0441 SL 0507 5.00 mm SL 0312 SL 0377 SL 0444 SL 0509 6.30 mm - 1/4 inch SL 0313 SL 0378 SL 0444 SL 0510 6.70 mm - 0.265 inch SL 0314 SL 0381 SL 0446 SL 0511 7.10 mm SL 0314 SL 0382 SL 0447 SL 0513 9.00 mm SL 0318 SL 0384 SL 0449 SL 0514 9.00 mm SL 0318 SL 0385 SL 0451 1.00 mm SL 0320 SL 0386 SL 0451 SL 0516 11.2 mm - 7/16 inch | | | | | |
| SL 0305 SL 0370 SL 0435 SL 0500 2.80mm - no. 7 SL 0306 SL 0371 SL 0436 SL 0501 3.15 mm SL 0308 SL 0373 SL 0437 SL 0502 3.35 mm SL 0309 SL 0374 SL 0438 SL 0503 3.55 mm SL 0309 SL 0374 SL 0440 SL 0505 4.50 mm SL 0310 SL 0375 SL 0440 SL 0506 4.75 mm - no. 4 SL 0311 SL 0376 SL 0444 SL 0507 5.00 mm SL 0313 SL 0378 SL 0444 SL 0509 6.30mm - 0.265 inch SL 0314 SL 0379 SL 0444 SL 0510 6.70mm - 0.265 inch SL 0317 SL 0380 SL 0447 SL 0512 8.00mm - 5/16 inch SL 0317 SL 0383 SL 0447 SL 0513 10.00mm SL 0317 SL 0384 SL 0447 SL 0515 10.00mm SL 0313 SL 0384 SL 0445 SL 0515 10.00mm SL 0320 SL 0384 SL 0450 SL 0515 1 | | | | | |
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| SL 0307 SL 0372 SL 0437 SL 0502 3.35mm - no. 6 SL 0308 SL 0373 SL 0438 SL 0504 4.00mm - no. 5 SL 0310 SL 0375 SL 0449 SL 0504 4.00mm - no. 5 SL 0311 SL 0375 SL 0441 SL 0506 4.75mm - no. 4 SL 0312 SL 0377 SL 0442 SL 0506 4.75mm - no. 4 SL 0313 SL 0378 SL 0442 SL 0506 5.00 mm SL 0313 SL 0378 SL 0442 SL 0509 6.30mm - 1/4 inch SL 0314 SL 0379 SL 0444 SL 0510 6.70mm - 0.265 inch SL 0315 SL 0380 SL 04445 SL 0511 7.10 mm SL 0316 SL 0382 SL 0447 SL 0512 8.00mm - 5/16 inch SL 0318 SL 0447 SL 0514 9.50mm - 3/8 inch SL 0322 SL 0318 SL 0449 SL 0514 9.50mm - 3/8 inch SL 0322 SL 0322 SL 0386 SL 0451 SL 0516 11.2mm - 7/16 inch SL 0323 SL 0388 S | | | | | |
| SL 0308 SL 0373 SL 0439 SL 0503 3.55 mm SL 0309 SL 0374 SL 0439 SL 0504 4.00mm - no. 5 SL 0311 SL 0376 SL 0440 SL 0505 4.50 mm SL 0312 SL 0377 SL 0442 SL 0507 5.00 mm SL 0313 SL 0378 SL 0443 SL 0508 5.60 mm - 3 ½ SL 0314 SL 0379 SL 0444 SL 0509 6.30 mm - 1/4 inch SL 0315 SL 0381 SL 0445 SL 0510 6.70 mm - 0.265 inch SL 0315 SL 0381 SL 0446 SL 0511 7.10 mm SL 0314 SL 0382 SL 0447 SL 0512 8.00 mm - 5/16 inch SL 0318 SL 0384 SL 0449 SL 0514 9.00 mm SL 0318 SL 0384 SL 04451 SL 0515 10.00 mm SL 0320 SL 0387 SL 0451 SL 0516 11.2 mm - 7/16 inch SL 0321 SL 0388 SL 0452 SL 0511 12.5 mm - 1/2 inch SL 0322 SL 0388 SL 0455 SL | | | | | |
| SL 0399 SL 0374 SL 0440 SL 0504 4.00mm - no. 5 SL 0310 SL 0375 SL 0440 SL 0505 4.50 mm SL 0311 SL 0376 SL 0441 SL 0506 4.75 mm - no. 4 SL 0313 SL 0377 SL 0442 SL 0507 5.00 mm SL 0313 SL 0379 SL 0443 SL 0509 6.30mm - 3.½ SL 0314 SL 0379 SL 0444 SL 0510 6.70mm - 0.265 inch SL 0315 SL 0380 SL 0444 SL 0511 7.10 mm SL 0317 SL 0382 SL 0444 SL 0511 7.10 mm SL 0318 SL 0448 SL 0513 9.00 mm 5/8 inch SL 0319 SL 0384 SL 0449 SL 0515 10.00 mm SL 0320 SL 0385 SL 0450 SL 0516 11.2mm - 7/16 inch SL 0322 SL 0388 SL 0451 SL 0517 12.5mm - 1/2 inch SL 0322 SL 0388 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0323 SL 0391 SL 0456 SL 0522 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| SL 0310 SL 0375 SL 0440 SL 0505 4.50 mm SL 0311 SL 0376 SL 0441 SL 0506 4.75mm - no. 4 SL 0313 SL 0377 SL 0442 SL 0508 5.60mm - 3 ½ SL 0313 SL 0379 SL 0444 SL 0509 6.30mm - 1 ¼ inch SL 0314 SL 0379 SL 0444 SL 0510 6.70mm - 0.265 inch SL 0315 SL 0380 SL 0445 SL 0511 7.10 mm SL 0317 SL 0382 SL 0446 SL 0511 7.10 mm SL 0318 SL 0383 SL 0448 SL 0511 9.00 mm SL 0318 SL 0383 SL 0449 SL 0515 10.00 mm SL 0320 SL 0385 SL 0450 SL 0515 10.00 mm SL 0321 SL 0386 SL 0451 SL 0517 12.5mm - 1/2 inch SL 0322 SL 0387 SL 0452 SL 0517 12.5mm - 1/2 inch SL 0323 SL 0388 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0322 SL 0388 SL 0455 SL 0520 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| SL 0311 SL 0376 SL 0441 SL 0506 4.75mm - no. 4 SL 0312 SL 0377 SL 0442 SL 0507 5.00 mm SL 0313 SL 0378 SL 0443 SL 0509 6.30mm - 3 ½ SL 0314 SL 0379 SL 0444 SL 0509 6.30mm - 1/4 inch SL 0315 SL 0380 SL 0445 SL 0510 6.70mm - 0.265 inch SL 0316 SL 0381 SL 0446 SL 0511 7.10 mm SL 0317 SL 0382 SL 0447 SL 0512 8.00mm - 5/16 inch SL 0318 SL 0383 SL 0448 SL 0513 9.00 mm SL 0319 SL 0383 SL 0449 SL 0514 9.50mm - 3/8 inch SL 0320 SL 0386 SL 0451 SL 0517 12.5mm - 1/2 inch SL 0321 SL 0386 SL 0453 SL 0519 14.00 mm SL 0322 SL 0389 SL 0454 SL 0519 14.00 mm SL 0324 SL 0389 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0325 SL 0390 SL 0455 SL 0521 18.00 mm SL 0326 SL 0391 SL 0455 | | | | | |
| SL 0312 SL 0377 SL 0442 SL 0507 S.00 mm SL 0313 SL 0378 SL 0444 SL 0508 5.60mm - 3 ½ SL 0314 SL 0379 SL 0444 SL 0510 6.70mm - 0.265 inch SL 0315 SL 0380 SL 0445 SL 0511 7.10 mm SL 0317 SL 0381 SL 0446 SL 0511 7.10 mm SL 0317 SL 0382 SL 0447 SL 0513 9.00 mm SL 0318 SL 0383 SL 0447 SL 0514 9.50mm - 3/8 inch SL 0319 SL 0384 SL 0449 SL 0515 10.00 mm SL 0321 SL 0386 SL 0451 SL 0516 11.2mm - 7/16 inch SL 0322 SL 0388 SL 0452 SL 0517 12.5mm - 1/2 inch SL 0323 SL 0388 SL 0453 SL 0519 14.00 mm SL 0324 SL 0389 SL 0454 SL 0520 16.0mm - 5/8 inch SL 0322 SL 0390 SL 0455 SL 0522 19.0mm - 3/4 inch SL 0323 SL 0393 SL 0455 SL 052 | | | | | |
| SL 0313 SL 0378 SL 0443 SL 0508 5.60mm - 3 ½ SL 0314 SL 0379 SL 0444 SL 0509 6.30mm - 1/4 inch SL 0315 SL 0380 SL 0445 SL 0510 6.70mm - 0.265 inch SL 0316 SL 0381 SL 0446 SL 0511 7.10 mm SL 0317 SL 0382 SL 0447 SL 0512 8.00mm - 5/16 inch SL 0318 SL 0383 SL 0448 SL 0513 9.00 mm SL 0319 SL 0384 SL 0449 SL 0515 10.00 mm SL 0320 SL 0386 SL 0451 SL 0516 11.2mm -7/16 inch SL 0322 SL 0387 SL 0452 SL 0517 12.5mm - 1/2 inch SL 0323 SL 0388 SL 0453 SL 0518 13.2mm 0.530 inch SL 0324 SL 0389 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0325 SL 0390 SL 0455 SL 0521 18.00 mm SL 0326 SL 0391 SL 0456 SL 0522 19.0mm - 3/4 inch SL 0326 SL 0393 SL 0459 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| SL 0314 SL 0379 SL 0444 SL 0509 6.30mm - 1/4 inch SL 0315 SL 0380 SL 0445 SL 0510 6.70mm - 0.265 inch SL 0317 SL 0382 SL 0447 SL 0511 7.10 mm SL 0317 SL 0382 SL 0447 SL 0512 8.00mm - 5/16 inch SL 0318 SL 0383 SL 0449 SL 0513 9.00 mm SL 0319 SL 0385 SL 0450 SL 0515 10.00 mm SL 0320 SL 0385 SL 0452 SL 0516 11.2mm - 7/16 inch SL 0322 SL 0388 SL 0452 SL 0518 13.2mm 0.530 inch SL 0324 SL 0388 SL 0455 SL 0520 16.0mm SL 0325 SL 0390 SL 0455 SL 0521 18.00 mm SL 0326 SL 0391 SL 0456 SL 0521 18.00 mm SL 0327 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0328 SL 0393 SL 0458 SL 0525 25.0mm - 1/8 inch SL 0329 SL 04394 SL 0459 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<> | | | | | |
| SL 0315 SL 0380 SL 0445 SL 0510 6.70mm - 0.265 inch SL 0316 SL 0381 SL 0446 SL 0511 7.10 mm SL 0317 SL 0382 SL 0447 SL 0512 8.00mm - 5/16 inch SL 0318 SL 0383 SL 0448 SL 0513 9.00 mm SL 0319 SL 0384 SL 0449 SL 0514 9.50mm 3/8 inch SL 0320 SL 0385 SL 0450 SL 0516 11.2mm - 7/16 inch SL 0321 SL 0386 SL 0453 SL 0517 12.5mm - 1/2 inch SL 0323 SL 0388 SL 0453 SL 0519 14.00 mm SL 0324 SL 0389 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0325 SL 0390 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0327 SL 0393 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0328 SL 0393 SL 0459 SL 0526 26.5mm - 1.06 SL 0330 SL 0395 SL 0460 SL 0527 28.00 mm SL 0331 SL 0398 | | | | | |
| SL 0317 SL 0382 SL 0447 SL 0512 8.00mm - 5/16 inch SL 0318 SL 0333 SL 0448 SL 0513 9.00 mm SL 0319 SL 0384 SL 0449 SL 0514 9.50mm - 3/8 inch SL 0320 SL 0385 SL 0450 SL 0515 10.00 mm SL 0321 SL 0386 SL 0451 SL 0516 11.2mm - 7/16 inch SL 0322 SL 0388 SL 0453 SL 0518 13.2mm 0.530 inch SL 0324 SL 0389 SL 0454 SL 0519 14.00 mm SL 0325 SL 0390 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0325 SL 0391 SL 0456 SL 0521 18.00 mm SL 0328 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0329 SL 0394 SL 0459 SL 0523 20.00 mm SL 0330 SL 0459 SL 0526 26.5mm - 1.06 inch SL 0331 SL 0396 SL 0461 SL 0527 28.00 mm SL 0332 SL 0396 SL 0462 SL 0528 <t< td=""><td>SL 0315</td><td>SL 0380</td><td>SL 0445</td><td>SL 0510</td><td></td></t<> | SL 0315 | SL 0380 | SL 0445 | SL 0510 | |
| SL 0318 SL 0383 SL 0448 SL 0513 9.00 mm SL 0319 SL 0384 SL 0449 SL 0514 9.50 mm - 3/8 inch SL 0320 SL 0385 SL 0450 SL 0515 10.00 mm SL 0321 SL 0386 SL 0451 SL 0516 11.2mm - 7/16 inch SL 0322 SL 0387 SL 0452 SL 0517 12.5mm - 1/2 inch SL 0323 SL 0388 SL 0453 SL 0519 14.00 mm SL 0324 SL 0389 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0326 SL 0391 SL 0456 SL 0521 18.00 mm SL 0326 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0328 SL 0393 SL 0458 SL 0523 20.00 mm SL 0329 SL 0394 SL 0459 SL 0526 25.0mm - 1/8 inch SL 0330 SL 0395 SL 0460 SL 0527 28.00 mm SL 0331 SL 0398 SL 0462 SL 0520 35.5 mm SL 0333 SL 0400 SL 0464 SL 0530 </td <td>SL 0316</td> <td>SL 0381</td> <td>SL 0446</td> <td></td> <td>7.10 mm</td> | SL 0316 | SL 0381 | SL 0446 | | 7.10 mm |
| SL 0319 SL 0384 SL 0449 SL 0514 9.50mm - 3/8 inch SL 0320 SL 0385 SL 0450 SL 0515 10.00 mm SL 0321 SL 0386 SL 0451 SL 0516 11.2mm - 7/16 inch SL 0322 SL 0387 SL 0452 SL 0517 12.5mm - 1/2 inch SL 0323 SL 0388 SL 0453 SL 0519 14.00 mm SL 0324 SL 0390 SL 0454 SL 0520 16.0mm - 5/8 inch SL 0325 SL 0390 SL 0455 SL 0521 18.00 mm SL 0326 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0327 SL 0392 SL 0458 SL 0523 20.00 mm SL 0329 SL 0394 SL 0459 SL 0524 22.4mm - 7/8 inch SL 0330 SL 0395 SL 0460 SL 0525 25.0mm - 1.06 inch SL 0331 SL 0396 SL 0461 SL 0526 26.5mm - 1.04 inch SL 0332 SL 0409 SL 0462 SL 0529 35.5 mm SL 0333 SL 0404 SL 0465 | | | | | |
| SL 0320 SL 0385 SL 0450 SL 0515 10.00 mm SL 0321 SL 0386 SL 0451 SL 0516 11.2mm - 7/16 inch SL 0322 SL 0387 SL 0452 SL 0517 12.5mm - 1/2 inch SL 0323 SL 0388 SL 0453 SL 0518 13.2mm 0.530 inch SL 0324 SL 0389 SL 0454 SL 0519 14.00 mm SL 0325 SL 0390 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0326 SL 0391 SL 0456 SL 0521 18.00 mm SL 0327 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0327 SL 0393 SL 0459 SL 0524 22.4mm - 7/8 inch SL 0329 SL 0394 SL 0459 SL 0525 25.0mm - 1.06 inch SL 0331 SL 0395 SL 0461 SL 0526 26.5mm - 1.06 inch SL 0332 SL 0397 SL 0462 SL 0529 35.5mm SL 0333 SL 0398 SL 0463 SL 0530 37.5mm - 11/2 inch SL 0334 SL 0400 SL 04 | | SL 0383 | | | |
| SL 0321 SL 0386 SL 0451 SL 0516 11.2mm - 7/16 inch SL 0322 SL 0387 SL 0452 SL 0517 12.5mm - 1/2 inch SL 0323 SL 0388 SL 0453 SL 0518 13.2mm 0.530 inch SL 0324 SL 0389 SL 0454 SL 0519 14.00 mm SL 0325 SL 0390 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0326 SL 0391 SL 0456 SL 0521 18.00 mm SL 0327 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0328 SL 0393 SL 0459 SL 0524 22.4mm - 7/8 inch SL 0329 SL 0394 SL 0459 SL 0526 26.5mm - 1.06 inch SL 0330 SL 0395 SL 0460 SL 0527 28.00 mm SL 0331 SL 0398 SL 0463 SL 0528 31.5mm - 11/4 inch SL 0333 SL 0399 SL 0464 SL 0529 35.5 mm SL 0334 SL 0400 SL 0465 SL 0531 40.00 mm SL 0335 SL 0400 SL 0466 | | | | | |
| SL 0322 SL 0387 SL 0452 SL 0517 12.5mm - 1/2 inch SL 0323 SL 0388 SL 0453 SL 0518 13.2mm 0.530 inch SL 0324 SL 0389 SL 0454 SL 0519 14.00 mm SL 0325 SL 0390 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0326 SL 0391 SL 0456 SL 0521 18.00 mm SL 0327 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0328 SL 0393 SL 0459 SL 0523 20.00 mm SL 0329 SL 0394 SL 0459 SL 0524 22.4mm - 7/8 inch SL 0330 SL 0395 SL 0460 SL 0525 25.0mm - 1 inch SL 0331 SL 0396 SL 0461 SL 0526 26.5mm - 1.06 inch SL 0332 SL 0397 SL 0462 SL 0529 35.5 mm SL 0333 SL 0398 SL 0463 SL 0529 35.5 mm SL 0334 SL 0400 SL 0465 SL 0531 40.00 mm SL 0335 SL 0400 SL 0466 SL | | | | | |
| SL 0323 SL 0388 SL 0453 SL 0518 13.2mm 0.530 inch SL 0324 SL 0389 SL 0454 SL 0519 14.00 mm SL 0325 SL 0390 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0326 SL 0391 SL 0456 SL 0521 18.00 mm SL 0327 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0328 SL 0393 SL 0458 SL 0523 20.00 mm SL 0329 SL 0394 SL 0459 SL 0525 25.0mm - 1/8 inch SL 0330 SL 0395 SL 0460 SL 0526 26.5mm - 1.06 inch SL 0331 SL 0396 SL 0462 SL 0527 28.00 mm SL 0332 SL 0398 SL 0463 SL 0529 35.5 mm SL 0334 SL 0399 SL 0464 SL 0523 45.0 mm SL 0335 SL 0400 SL 0466 SL 0531 40.00 mm SL 0336 SL 0400 SL 0466 SL 0533 50.0mm - 1/2 inch SL 0337 SL 0400 SL 0466 SL 0533 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| SL 0324 SL 0389 SL 0454 SL 0519 14.00 mm SL 0325 SL 0390 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0326 SL 0391 SL 0456 SL 0521 18.00 mm SL 0327 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0328 SL 0393 SL 0458 SL 0523 20.00 mm SL 0329 SL 0394 SL 0459 SL 0524 22.4mm - 7/8 inch SL 0330 SL 0395 SL 0460 SL 0525 25.0mm - 1 inch SL 0331 SL 0396 SL 0461 SL 0526 26.5mm - 1.06 inch SL 0332 SL 0397 SL 0462 SL 0527 28.00 mm SL 0333 SL 0398 SL 0462 SL 0529 35.5 mm SL 0333 SL 0399 SL 0464 SL 0529 35.5 mm SL 0335 SL 0400 SL 0465 SL 0531 40.00 mm SL 0336 SL 0401 SL 0466 SL 0531 40.00 mm SL 0337 SL 0402 SL 0467 SL 0532 | | | | | |
| SL 0325 SL 0390 SL 0455 SL 0520 16.0mm - 5/8 inch SL 0326 SL 0391 SL 0456 SL 0521 18.00 mm SL 0327 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0328 SL 0393 SL 0458 SL 0523 20.00 mm SL 0329 SL 0394 SL 0459 SL 0524 22.4mm - 7/8 inch SL 0330 SL 0395 SL 0460 SL 0525 25.0mm - 1 inch SL 0331 SL 0396 SL 0461 SL 0526 26.5mm - 1.06 inch SL 0332 SL 0397 SL 0462 SL 0528 31.5mm - 1 1/4 inch SL 0333 SL 0398 SL 0463 SL 0529 35.5 mm SL 0334 SL 0399 SL 0464 SL 0529 35.5 mm SL 0335 SL 0400 SL 0465 SL 0531 40.00 mm SL 0336 SL 0401 SL 0466 SL 0531 40.00 mm SL 0337 SL 0402 SL 0467 SL 0532 45.0mm 1 3/4 inch SL 0338 SL 0403 SL 0468 S | | | | | |
| SL 0326 SL 0391 SL 0456 SL 0521 18.00 mm SL 0327 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0328 SL 0393 SL 0458 SL 0523 20.00 mm SL 0329 SL 0394 SL 0459 SL 0524 22.4mm - 7/8 inch SL 0330 SL 0395 SL 0460 SL 0525 25.0mm - 1 inch SL 0331 SL 0396 SL 0461 SL 0526 26.5mm - 1.06 inch SL 0332 SL 0397 SL 0462 SL 0527 28.00 mm SL 0333 SL 0398 SL 0463 SL 0529 35.5 mm SL 0334 SL 0399 SL 0464 SL 0529 35.5 mm SL 0335 SL 0400 SL 0466 SL 0531 40.00 mm SL 0336 SL 0401 SL 0466 SL 0531 40.00 mm SL 0337 SL 0402 SL 0467 SL 0532 45.0mm 1 3/4 inch SL 0338 SL 0403 SL 0468 SL 0533 50.0mm - 2.12 inch SL 0340 SL 04403 SL 0477 SL 0535 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| SL 0327 SL 0392 SL 0457 SL 0522 19.0mm - 3/4 inch SL 0328 SL 0393 SL 0458 SL 0523 20.00 mm SL 0329 SL 0394 SL 0459 SL 0524 22.4mm - 7/8 inch SL 0330 SL 0395 SL 0460 SL 0525 25.0mm - 1 inch SL 0331 SL 0396 SL 0461 SL 0526 26.5mm - 1.06 inch SL 0332 SL 0397 SL 0462 SL 0527 28.00 mm SL 0333 SL 0398 SL 0463 SL 0529 35.5 mm SL 0334 SL 0399 SL 0464 SL 0529 35.5 mm SL 0335 SL 0400 SL 0465 SL 0530 37.5mm - 1 1/2 inch SL 0336 SL 0401 SL 0466 SL 0531 40.00 mm SL 0337 SL 0402 SL 0467 SL 0532 45.0mm 1 3/4 inch SL 0338 SL 0403 SL 0468 SL 0533 50.0mm - 2.12 inch SL 0339 SL 0404 SL 0469 SL 0535 56.00 mm SL 0340 SL 0406 SL 0471 | | | | | |
| SL 0328 SL 0393 SL 0458 SL 0523 20.00 mm SL 0329 SL 0394 SL 0459 SL 0524 22.4mm - 7/8 inch SL 0330 SL 0395 SL 0460 SL 0525 25.0mm - 1 inch SL 0331 SL 0396 SL 0461 SL 0526 26.5mm - 1.06 inch SL 0332 SL 0397 SL 0462 SL 0527 28.00 mm SL 0333 SL 0398 SL 0463 SL 0529 35.5 mm SL 0334 SL 0399 SL 0464 SL 0529 35.5 mm SL 0335 SL 0400 SL 0465 SL 0530 37.5mm - 1 1/2 inch SL 0336 SL 0401 SL 0466 SL 0531 40.00 mm SL 0337 SL 0402 SL 0467 SL 0532 45.0mm 1 3/4 inch SL 0338 SL 0403 SL 0468 SL 0533 50.0mm - 2 inch SL 0339 SL 0404 SL 0453 53.0mm - 2.12 inch SL 0340 SL 0405 SL 0471 SL 0535 56.00 mm SL 0341 SL 0406 SL 0471 SL 0536 63 | | | | | |
| SL 0329SL 0394SL 0459SL 052422.4mm - 7/8 inchSL 0330SL 0395SL 0460SL 052525.0mm - 1 inchSL 0331SL 0396SL 0461SL 052626.5mm - 1.06 inchSL 0332SL 0397SL 0462SL 052728.00 mmSL 0333SL 0398SL 0463SL 052831.5mm - 1 1/4 inchSL 0334SL 0399SL 0464SL 052935.5 mmSL 0335SL 0400SL 0465SL 053037.5mm - 1 1/2 inchSL 0336SL 0401SL 0466SL 053140.00 mmSL 0337SL 0402SL 0467SL 053245.0mm 1 3/4 inchSL 0338SL 0403SL 0468SL 053350.0mm - 2 inchSL 0339SL 0404SL 0469SL 053453.0mm - 2.12 inchSL 0340SL 0405SL 0470SL 053556.00 mmSL 0341SL 0406SL 0471SL 053663.0mm - 2.5 inchSL 0343SL 0408SL 0472SL 053771.00 mmSL 0344SL 0409SL 0475SL 054090.0mm - 3 inchSL 0344SL 0409SL 0475SL 054090.0mm - 3 inchSL 0345SL 0411SL 0476SL 0541100mm - 4 inchSL 0348SL 0413SL 0478SL 0543112.00 mm | | | | | |
| SL 0330SL 0395SL 0460SL 052525.0mm - 1 inchSL 0331SL 0396SL 0461SL 052626.5mm - 1.06 inchSL 0332SL 0397SL 0462SL 052728.00 mmSL 0333SL 0398SL 0463SL 052831.5mm - 1 1/4 inchSL 0334SL 0399SL 0464SL 052935.5 mmSL 0335SL 0400SL 0465SL 053037.5mm - 1 1/2 inchSL 0336SL 0401SL 0466SL 053140.00 mmSL 0337SL 0402SL 0467SL 053245.0mm 1 3/4 inchSL 0338SL 0403SL 0468SL 053350.0mm - 2 inchSL 0339SL 0404SL 0469SL 053453.0mm - 2.12 inchSL 0340SL 0405SL 0470SL 053556.00 mmSL 0341SL 0406SL 0471SL 053663.0mm - 2.5 inchSL 0343SL 0408SL 0473SL 053875.0mm - 3 inchSL 0344SL 0409SL 0474SL 053980.00 mmSL 0345SL 0410SL 0476SL 0541100mm - 4 inchSL 0347SL 0412SL 0477SL 0542106mm - 4.24 inchSL 0348SL 0413SL 0478SL 0543112.00 mm | | | | | |
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| SL 0332 SL 0397 SL 0462 SL 0527 28.00 mm SL 0333 SL 0398 SL 0463 SL 0528 31.5mm - 1 1/4 inch SL 0334 SL 0399 SL 0464 SL 0529 35.5 mm SL 0335 SL 0400 SL 0465 SL 0530 37.5mm - 1 1/2 inch SL 0336 SL 0401 SL 0466 SL 0531 40.00 mm SL 0337 SL 0402 SL 0467 SL 0532 45.0mm 1 3/4 inch SL 0338 SL 0403 SL 0468 SL 0533 50.0mm - 2 inch SL 0339 SL 0404 SL 0469 SL 0535 56.00 mm SL 0340 SL 0405 SL 0470 SL 0535 56.00 mm SL 0341 SL 0406 SL 0471 SL 0536 63.0mm - 2.5 inch SL 0342 SL 0407 SL 0472 SL 0537 71.00 mm SL 0343 SL 0408 SL 0473 SL 0538 75.0mm - 3 inch SL 0343 SL 0408 SL 0474 SL 0539 80.00 mm SL 0344 SL 0409 SL 0475 SL 0540 <td>SL 0331</td> <td>SL 0396</td> <td>SL 0461</td> <td>SL 0526</td> <td></td> | SL 0331 | SL 0396 | SL 0461 | SL 0526 | |
| SL 0334 SL 0399 SL 0464 SL 0529 35.5 mm SL 0335 SL 0400 SL 0465 SL 0530 37.5mm - 1 1/2 inch SL 0336 SL 0401 SL 0466 SL 0531 40.00 mm SL 0337 SL 0402 SL 0467 SL 0532 45.0mm 1 3/4 inch SL 0338 SL 0403 SL 0468 SL 0533 50.0mm - 2 inch SL 0339 SL 0404 SL 0469 SL 0535 56.00 mm SL 0340 SL 0405 SL 0470 SL 0536 63.0mm - 2.5 inch SL 0342 SL 0407 SL 0472 SL 0537 71.00 mm SL 0343 SL 0408 SL 0473 SL 0538 75.0mm - 3 inch SL 0344 SL 0409 SL 0474 SL 0539 80.00 mm SL 0344 SL 0409 SL 0475 SL 0539 80.00 mm SL 0345 SL 0410 SL 0475 SL 0540 90.0mm - 3 1/2 inch SL 0346 SL 0411 SL 0476 SL 0541 100mm - 4 inch SL 0347 SL 0412 SL 0477 SL 0 | SL 0332 | SL 0397 | | SL 0527 | 28.00 mm |
| SL 0335 SL 0400 SL 0465 SL 0530 37.5mm - 1 1/2 inch SL 0336 SL 0401 SL 0466 SL 0531 40.00 mm SL 0337 SL 0402 SL 0467 SL 0532 45.0mm 1 3/4 inch SL 0338 SL 0403 SL 0468 SL 0533 50.0mm - 2 inch SL 0339 SL 0404 SL 0469 SL 0534 53.0mm - 2.12 inch SL 0340 SL 0405 SL 0470 SL 0535 56.00 mm SL 0341 SL 0406 SL 0471 SL 0536 63.0mm - 2.5 inch SL 0342 SL 0407 SL 0472 SL 0537 71.00 mm SL 0343 SL 0408 SL 0473 SL 0538 75.0mm - 3 inch SL 0344 SL 0409 SL 0474 SL 0539 80.00 mm SL 0345 SL 0410 SL 0475 SL 0540 90.0mm - 3 1/2 inch SL 0346 SL 0411 SL 0476 SL 0541 100mm - 4 inch SL 0347 SL 0412 SL 0477 SL 0542 106mm - 4.24 inch SL 0348 SL 0413 SL 0478 SL 0543 112.00 mm | | | | | |
| SL 0336SL 0401SL 0466SL 053140.00 mmSL 0337SL 0402SL 0467SL 053245.0mm 1 3/4 inchSL 0338SL 0403SL 0468SL 053350.0mm - 2 inchSL 0339SL 0404SL 0469SL 053453.0mm - 2.12 inchSL 0340SL 0405SL 0470SL 053556.00 mmSL 0341SL 0406SL 0471SL 053663.0mm - 2.5 inchSL 0342SL 0407SL 0472SL 053771.00 mmSL 0343SL 0408SL 0473SL 053875.0mm - 3 inchSL 0344SL 0409SL 0474SL 053980.00 mmSL 0345SL 0410SL 0475SL 054090.0mm - 3 1/2 inchSL 0346SL 0411SL 0476SL 0541100mm - 4 inchSL 0347SL 0412SL 0477SL 0542106mm - 4.24 inchSL 0348SL 0413SL 0478SL 0543112.00 mm | | | | | |
| SL 0337 SL 0402 SL 0467 SL 0532 45.0mm 1 3/4 inch SL 0338 SL 0403 SL 0468 SL 0533 50.0mm - 2 inch SL 0339 SL 0404 SL 0469 SL 0534 53.0mm - 2.12 inch SL 0340 SL 0405 SL 0470 SL 0535 56.00 mm SL 0341 SL 0406 SL 0471 SL 0536 63.0mm - 2.5 inch SL 0342 SL 0407 SL 0472 SL 0537 71.00 mm SL 0343 SL 0408 SL 0473 SL 0538 75.0mm - 3 inch SL 0344 SL 0409 SL 0474 SL 0539 80.00 mm SL 0345 SL 0410 SL 0475 SL 0540 90.0mm - 3 1/2 inch SL 0346 SL 0411 SL 0476 SL 0541 100mm - 4 inch SL 0347 SL 0412 SL 0477 SL 0542 106mm - 4.24 inch SL 0348 SL 0413 SL 0478 SL 0543 112.00 mm | | | | | |
| SL 0338 SL 0403 SL 0468 SL 0533 50.0mm - 2 inch SL 0339 SL 0404 SL 0469 SL 0534 53.0mm - 2.12 inch SL 0340 SL 0405 SL 0470 SL 0535 56.00 mm SL 0341 SL 0406 SL 0471 SL 0536 63.0mm - 2.5 inch SL 0342 SL 0407 SL 0472 SL 0537 71.00 mm SL 0343 SL 0408 SL 0473 SL 0538 75.0mm - 3 inch SL 0344 SL 0409 SL 0474 SL 0539 80.00 mm SL 0345 SL 0410 SL 0475 SL 0540 90.0mm - 3 1/2 inch SL 0346 SL 0411 SL 0476 SL 0541 100mm - 4 inch SL 0347 SL 0412 SL 0477 SL 0542 106mm - 4.24 inch SL 0348 SL 0413 SL 0478 SL 0543 112.00 mm | | | | | |
| SL 0339 SL 0404 SL 0469 SL 0534 53.0mm - 2.12 inch SL 0340 SL 0405 SL 0470 SL 0535 56.00 mm SL 0341 SL 0406 SL 0471 SL 0536 63.0mm - 2.5 inch SL 0342 SL 0407 SL 0472 SL 0537 71.00 mm SL 0343 SL 0408 SL 0473 SL 0538 75.0mm - 3 inch SL 0344 SL 0409 SL 0474 SL 0539 80.00 mm SL 0345 SL 0410 SL 0475 SL 0540 90.0mm - 3 1/2 inch SL 0346 SL 0411 SL 0476 SL 0541 100mm - 4 inch SL 0347 SL 0412 SL 0477 SL 0542 106mm - 4.24 inch SL 0348 SL 0413 SL 0478 SL 0543 112.00 mm | | | | | |
| SL 0340 SL 0405 SL 0470 SL 0535 56.00 mm SL 0341 SL 0406 SL 0471 SL 0536 63.0mm - 2.5 inch SL 0342 SL 0407 SL 0472 SL 0537 71.00 mm SL 0343 SL 0408 SL 0473 SL 0538 75.0mm - 3 inch SL 0344 SL 0409 SL 0474 SL 0539 80.00 mm SL 0345 SL 0410 SL 0475 SL 0540 90.0mm - 3 1/2 inch SL 0346 SL 0411 SL 0476 SL 0541 100mm - 4 inch SL 0347 SL 0412 SL 0477 SL 0542 106mm - 4.24 inch SL 0348 SL 0413 SL 0478 SL 0543 112.00 mm | | | | | |
| SL 0341 SL 0406 SL 0471 SL 0536 63.0mm - 2.5 inch SL 0342 SL 0407 SL 0472 SL 0537 71.00 mm SL 0343 SL 0408 SL 0473 SL 0538 75.0mm - 3 inch SL 0344 SL 0409 SL 0474 SL 0539 80.00 mm SL 0345 SL 0410 SL 0475 SL 0540 90.0mm - 3 1/2 inch SL 0346 SL 0411 SL 0476 SL 0541 100mm - 4 inch SL 0347 SL 0412 SL 0477 SL 0542 106mm - 4.24 inch SL 0348 SL 0413 SL 0478 SL 0543 112.00 mm | | | | | |
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| SL 0343 SL 0408 SL 0473 SL 0538 75.0mm - 3 inch SL 0344 SL 0409 SL 0474 SL 0539 80.00 mm SL 0345 SL 0410 SL 0475 SL 0540 90.0mm - 3 1/2 inch SL 0346 SL 0411 SL 0476 SL 0541 100mm - 4 inch SL 0347 SL 0412 SL 0477 SL 0542 106mm - 4.24 inch SL 0348 SL 0413 SL 0478 SL 0543 112.00 mm | | | | | |
| SL 0344 SL 0409 SL 0474 SL 0539 80.00 mm SL 0345 SL 0410 SL 0475 SL 0540 90.0mm - 3 1/2 inch SL 0346 SL 0411 SL 0476 SL 0541 100mm - 4 inch SL 0347 SL 0412 SL 0477 SL 0542 106mm - 4.24 inch SL 0348 SL 0413 SL 0478 SL 0543 112.00 mm | | | | | |
| SL 0345 SL 0410 SL 0475 SL 0540 90.0mm - 3 1/2 inch SL 0346 SL 0411 SL 0476 SL 0541 100mm - 4 inch SL 0347 SL 0412 SL 0477 SL 0542 106mm - 4.24 inch SL 0348 SL 0413 SL 0478 SL 0543 112.00 mm | | | | | |
| SL 0346 SL 0411 SL 0476 SL 0541 100mm - 4 inch SL 0347 SL 0412 SL 0477 SL 0542 106mm - 4.24 inch SL 0348 SL 0413 SL 0478 SL 0543 112.00 mm | | | | | |
| SL 0347 SL 0412 SL 0477 SL 0542 106mm - 4.24 inch SL 0348 SL 0413 SL 0478 SL 0543 112.00 mm | | | | | |
| | SL 0347 | | | | |
| SL 0349 SL 0414 SL 0479 SL 0544 125mm - 5 inch | SL 0348 | SL 0413 | SL 0478 | SL 0543 | 112.00 mm |
| | SL 0349 | SL 0414 | SL 0479 | SL 0544 | 125mm - 5 inch |

EN 933-2; ISO 3310-1; ISO 3310-2; ISO 565

Testing Sieves

All test sieves are manufactured to National and International Specifications and are supplied with a "Certificate of Compliance".

Each sieve is individually serial numbered, ensuring full traceability. Particle Size Analysis is probably performed in all laboratories engaged in testing materials for civil engineering applications.

The range of sieves offered includes ISO, EN, BS and ASTM sieves. Woven wire test sieves are manufactured from stainless steel mesh while the Perforated plate test sieves are manufactured from tinned steel plate..



All test sieves unless otherwise indicated are supplied with full-depth frames. ASTM E11 sieves are similar in construction to those used in the British Standard rangel plate..

| 200 mm dia | 300 mm dia | 8 inch dia | 12 inch dia | Woven wire stainless steel mesh |
|--------------|--------------|--------------|--------------|---|
| Product code | Product code | Product code | Product code | Mesh Size and description, BS 410/ISO 3310 ASTM E11 |
| SL 0545 | SL 0587 | SL 0629 | SL 0671 | 4.00 mm |
| SL 0546 | SL 0588 | SL 0630 | SL 0672 | 4.50 mm |
| SL 0547 | SL 0589 | SL 0631 | SL 0673 | 4.75 mm |
| SL 0548 | SL 0590 | SL 0632 | SL 0674 | 5.00 mm |
| SL 0549 | SL 0591 | SL 0633 | SL 0675 | 5.60 mm |
| SL 0550 | SL 0592 | SL 0634 | SL 0676 | 6.30 mm |
| SL 0551 | SL 0593 | SL 0635 | SL 0677 | 6.70 mm |
| SL 0552 | SL 0594 | SL 0636 | SL 0678 | 7.10 mm |
| SL 0553 | SL 0595 | SL 0637 | SL 0679 | 8.00 mm |
| SL 0554 | SL 0596 | SL 0638 | SL 0680 | 9.00 mm |
| SL 0555 | SL 0597 | SL 0639 | SL 0681 | 9.50 mm |
| SL 0556 | SL 0598 | SL 0640 | SL 0682 | 10.00 mm |
| SL 0557 | SL 0599 | SL 0641 | SL 0683 | 11.2 mm |
| SL 0558 | SL 0600 | SL 0642 | SL 0684 | 12.5 mm |
| SL 0559 | SL 0601 | SL 0643 | SL 0685 | 13.20 mm |
| SL 0560 | SL 0602 | SL 0644 | SL 0686 | 14.00 mm |
| SL 0561 | SL 0603 | SL 0645 | SL 0687 | 16.00 mm |
| SL 0562 | SL 0604 | SL 0646 | SL 0688 | 18.00 mm |
| SL 0563 | SL 0605 | SL 0647 | SL 0689 | 19.00 mm |
| SL 0564 | SL 0606 | SL 0648 | SL 0690 | 20.00 mm |
| SL 0565 | SL 0607 | SL 0649 | SL 0691 | 22.4 mm |
| SL 0566 | SL 0608 | SL 0650 | SL 0692 | 25.00 mm |
| SL 0567 | SL 0609 | SL 0651 | SL 0693 | 26.50 mm |
| SL 0568 | SL 0610 | SL 0652 | SL 0694 | 28.00 mm |
| SL 0569 | SL 0611 | SL 0653 | SL 0695 | 31.5 mm |
| SL 0570 | SL 0612 | SL 0654 | SL 0696 | 35.50 mm |
| SL 0571 | SL 0613 | SL 0655 | SL 0697 | 37.50 mm |
| SL 0572 | SL 0614 | SL 0656 | SL 0698 | 40.00 mm |
| SL 0573 | SL 0615 | SL 0657 | SL 0699 | 45.00 mm |
| SL 0574 | SL 0616 | SL 0658 | SL 0700 | 50.00 mm |
| SL 0575 | SL 0617 | SL 0659 | SL 0701 | 53.00 mm |
| SL 0576 | SL 0618 | SL 0660 | SL 0702 | 56.00 mm |
| SL 0577 | SL 0619 | SL 0661 | SL 0703 | 71.00 mm |
| SL 0578 | SL 0620 | SL 0662 | SL 0704 | 75.00 mm |
| SL 0579 | SL 0621 | SL 0663 | SL 0705 | 80.00 mm |
| SL 0580 | SL 0622 | SL 0664 | SL 0706 | 90.00 mm |
| SL 0581 | SL 0623 | SL 0665 | SL 0707 | 100.00 mm |
| SL 0582 | SL 0624 | SL 0666 | SL 0708 | 106 mm |
| SL 0583 | SL 0625 | SL 0667 | SL 0709 | 112 mm |
| SL 0584 | SL 0626 | SL 0668 | SL 0710 | 125 mm |
| SL 0585 | SL 0627 | SL 0669 | SL 0711 | 75 micron Washing Sieves |
| SL 0586 | SL 0628 | SL 0670 | SL 0712 | 63 micron Washing Sieves |

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Digital Gauge Calcimeter

DESCRIPTION:

The Digital Gauge Calcimeter Kit + Magnetic Stirrer provides all of the necessary apparatus to perform easy and accurate field Calcimetery testing. The addition of the Magnetic Stirrer and Stir Bar allows for more convenient and accurate testing.

Calcimetery is used to determine the Calcite (Calcium Carbonate-CaCO3) and Dolomite (CaMg(CO3)2) content of a soil, oil well core or drill cutting sample.

The buildup of Calcite in drilling fluids and in water treatment processes can cause scaling issues. The data collected from Calcimetery testing aids in determining a suitable chemical treatment. The data collected also provides a host of other geological information.

The equipment for testing is somewhat fragile, expensive and not ideal of field testing applications.

The Gauge Model Calcimeter Kit mitigates many sources of error and introduces a simplified testing procedure which allows the user to perform the test with accuracy and ease.

The Digital Gauge Calcimeter Kit contains:

- Reaction Chamber (5" x 2.25")
- Reaction Chamber Top (includes Luer Lock Valve, Pressure Release Valve, Digital Pressure Gauge and Neoprene-O Rings)
- Reaction Chamber Stand
- -Magnetic Stirrer
- -1.25" Magnetic Stir Bar
- -Luer Lock Syringe(s) 20ml and/or 60ml
- -3" ASTM #100 Brass Sieve
- -Digital Weighing Scale
- -Stop Watch
- -Pestle-Mortar
- -Spatula

-Sample Tray

-Laboratory Grade Hydrochloric Acid

- -Laboratory Grade Calcium Carbonate
- -User Manual

TECHNICAL SPECIFICATIONS:

| Di | mensions | 63.5 | 5 x 140 | mı | m dia. |
|----|-----------------|------|---------|----|--------|
| W | eight (approx.) | | 2.72 | kg | |
| - | | | | _ | |



ORDERING:

SL 0713 Digital Gauge Calcimeter Kit

ACCESSORIES:

SL 0713-1 Reaction Chamber

SL 0713-2 Reaction Chamber

SL 0713-3 Reaction Chamber Stand

SL 0713-4 Magnetic Stirrer

SL 0713-5 Magnetic Stirrer

SL 0713-6 3" ASTM #100 Brass Sieve

SL 0713-7 Laboratory Grade Hydrochloric Acid

SL 0713-8 Laboratory Grade Calcium Carbonat



Ultrasonic Cleaning Bath

DESCRIPTION:

The Ultrasonic cleaning baths use cavitation to remove dirt from objects that are immersed in the cleaning liquid.

Cavitation is the sequential formation and collapse of vapor bubbles and voids in a liquid subjected to acoustic energy at high frequency and intensity.

Cavitation occurs wherever the liquid penetrates, ensuring that the smaller and larger aperture sieves are cleaned equally well.

Ultrasonic baths are also useful for cleaning fragile items such as glassware and sieves.

The 25 liter cleaning bath has an internal diameter of 410mm and a height of 200mm. Accommodating sieves of up to 400mm diameter.

Cleaning baths are manufactured from stainless steel, supplied complete with a timer, lid and incorporate an ultrasonic generator which is suitable for continuous operation..

| | Diameter | 410 mm | | Weight |
|------------------------|-----------------------|--------|-----------|--------|
| TECHNICAL | Height | | 25 liters | |
| SPECIFICATIONS: | Sieves diameter up to | 400 mm | 5 liters | 8 kg |

Speedy Moisture Meter

DESCRIPTION:

The Speedy Moisture Tester is a portable system comprising a vessel with an integral pressure gauge a weighing scale and carry case.

A small sample of the material is prepared weighed and placed into the vessel. The reagent is then added and the vessel.

The reagent is then added and the vessel is sealed and shaken to mix the reagent with the sample.

Free moisture within the sample reacts with the reagent to produce a gas and pressure rise within the vessel that is proportional to the amount of moisture.

The moisture content value is then read directly from the calibrated pres sure gauge.

Speedy vessel manufactured from cast aluminum and fitted with a calibrated pressure gauge with a moisture measurement range of 0 -20%. With 0.2% Gauge divisions.

| TECHNICAL | Dimensions | 510x380x200 mm (case) |
|-----------------|------------------|-----------------------|
| SPECIFICATIONS: | Weight (approx.) | 9 kg |

ORDERING:

SL 0714 Ultrasonic Cleaning Baths 25 It capacity

ACCESSORIES:

SL 0714-1 Cleaning Liquid, <u>5 It</u>



BS 812; ASTM D4944; AASHTO T217; EN 413-2; 459-2: 1015-4: DIN 4211



SL 0716 Large Speedy, 20gr sample

ACCESSORIES: SL 0715-1 Calcium Carbide





Universal Carbide Meter

DESCRIPTION:

The moisture content can be determined using the Moisture tester based on the calcium carbide method.

The soil sample is introduced in the bottle with the reagent. The waterreacts with calcium carbide and develops a gas pressure, which is indicated on the manometer and easily converted in percentage of moisture.

It is possible to vary the sample weight from 3 to 100 g for the complete reaction between sample and carbide with accurate moisture measurements from 0 to over the 20%.

The glass ampoule containing the calcium carbide is broken when the bottle is closed and shaken, granting better accuracy to the test.

The instrument comprises the testing bottle with manometer, small balance, 20 ampoules of reagent, accessories, case.

Liquid Limit Devices Casagrande Method

DESCRIPTION:

Liquid limit device casagrande method is used to determine the moisture content at which clay soil pass from a plas tic to a liquid state.

It helps in the classification of soil when comparing the potential properties of soil material against empirical data.

Consists of a brass cup, adjustable crank, mechanical blow counter, base and grooving tools.

TECHNICAL SPECIFICATIONS:

| | Manual | Motorized |
|------------------|----------------|----------------|
| Dimensions | 240x230x150 mm | 200x290x170 mm |
| Weight (approx.) | 2 kg | 4.2 kg |

BS 1377, 1997-2, ASTM D4318, AASHTO T89

MAIN FEATURES:

Adjustable crank

TECHNICAL

SPECIFICATIONS:

Dimensions

520x340x140 mm.

• Different models with the same shape

ORDERING:

SL 0720

Manual liquid complete with counter, metal grooving tool and test gauge, BS standards

Weight (approx.)

6 kg

SL 0721 Motorized liquid complete with counter, metal grooving tool and test gauge, BS standards

SL 0722

Manual liquid complete with counter, less ASTM standard

SL 0723

Motorized liquid complete with counter,' less ASTM standard

ACCESSORIES:

SL 0720-1 ASTM Metal Grooving Tool

sample **SL 0719**

Large Carbide Meter, 50 gr sample

SL 0717 Small Carbide Meter, 10 gr

SL 0718 Medium Carbide Meter, 20 gr

ACCESSORIES:

SL 0717-1 Calcium Carbide reagent ampoules pack of 100 pieces

sample

ORDERING:

BS 812, ASTM D4944, AASHTO T217



SL 0720-2 BS Metal Grooving Tool

SL 0720-3 AASHTO casagrande grooving tool

Cone Penetrometer Test

DESCRIPTION:

The Cone Penetrometer is used to carry on liquid limit tests on soil samples.

It is a static test depending on the soil shear strength.

The test is based on the relationship between moisture content and the penetration of a cone into the soil sample under pre-set conditions.

TECHNICAL SPECIFICATIONS:

| Dimensions | Weight |
|----------------|--------|
| 230x175x415 mm | 9.7 kg |

| BS 1377 | Yes |
|----------------|----------------------------------|
| BS 1924-2 | Yes |
| Voltage Supply | 220-240 V 50/60 Hz |
| Weight, kg | 8.6 |
| Description | Semi-Automatic Cone Penetrometer |
| Cone Release | Semi-Automatic |
| EN 1997-2 | Yes |

Strenght of Stabilized Soil

DESCRIPTION:

To perform the unconfined compressive strength of hydraulically bound mixtures of fine and medium grained soil specimens, the main Standards require to manufacture the test specimens using a suitable mould set kit. Several versions are available according to the Standard: EN 13286-53 NF P94-100

Each test set conforming to EN 13286-53 includes: 1 mould, a a a a set of 2 end plugs set of 2 plug displacing collars with 3 different heights (5.00 mm; 8.33 mm and 12.50 mm) 1 demoulding plugger 1 specimen collector

Each test set conforming to NF P94-100 includes:

- 1 mould
- 5 stainless steel casing
- 2 compaction plugs
- 1 set of plug displacing collars
- 1 demoulding plunger
- **1**specimen collector

BS 1377; 1924-2; EN DD ENV 1997-2

MAIN FEATURES:

- Adjustable crank
- Different models with the same shape

ORDERING:

SL 0724 Semi-Automatic Cone Pene-trometer Supplied complete

SL 0725 Fully Automatic Cone Pene-trometer supplied complete

EN 13286-53; NF P94-100

ORDERING:

SL 0726 EN Stabilized soil set for fine and medium grained soils, specimen size_Ø 50x50 mm, according to EN 13286-53

SL 0727 EN Stabilized soil set for fine and medium grained soils, specimen size Ø 50x100 mm, according to EN 13286-53

SL 0728 EN Stabilized soil set for fine and medium grained soils, specimen size Ø 100x100 mm, according to EN 13286-53

SL 0729 EN Stabilized soil set for fine and medium grained soils, specimen size Ø 100x200 mm, according to EN 13286-53

SL 0730 NF Stabilized soil set for fine and medium grained soils, specimen size Ø 50x50 mm, according to NF P94-100

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Determination of Plastic Limit

DESCRIPTION:

The Plastic Limit (WP) is defined as the lowest mois⁻ ture content of a soil that will permit a sample to be rolled into threads of 3mm diameter without the threads breaking.

The Plastic Limit Set comprises of a glass plate, steel rod, mixing dish, spatula and 4 moisture content tins.

TECHNICAL SPECIFICATIONS:

| Dimensions | Weight (approx.) |
|---------------|------------------|
| 340x290x90 mm | 1,5 kg |

Determination of Shrinkage Limit

DESCRIPTION:

When the water content of a fi negrained soil is reduced below the plastic limit, shrinkage of the soil mass continues until the shrinkage limit is reached.

This method of test covers the determination of the shrinkage limit, shrinkage ratio, volumetric shrinkage and linear shrinkage.

The set comprises prong plate, shrinkage dish, spatula, glass measuring cylinder and two moisture content tins.

TECHNICALSPECIFICATIONS:DimensionsWeight (approx.)340x290x90 mm1,5 kg

Linear Shrinkage Mold

DESCRIPTION:

The Linear shrinkage test covers the determination of the shrinkage of soils and indicates the plastic properties of soils with low clay content.

TECHNICAL SPECIFICATIONS:

| Dimensions | Weight (approx.) |
|------------------------------|------------------|
| 140 mm long, 12.5 mm radius. | 300 g |

SL 0732-7 Graduated Glass Cylinder, 25 ml, **SL 0732-8** Carrying Case

ASTM 4318, AASHTO T90, BAS 1377:2

ORDERING: SL 0731 The Plastic Limit complete set

ACCESSORIES: SL 0731-1 Steel rod

SL 0731-2 4 Moisture content tins

ASTM D427; AASHTO T92; UNE 103-108; UNI 10014 BS 1377

ORDERING:

SL 0732 The Shrinkage Limit Test Set is supplied complete

ACCESSORIES:

SL 0732-1 Shrinkage Dish

SL 0732-2 Prong Plate

SL 0732-3 Moisture Content Tin with Lid, aluminum, Ø:45 mm h:10 mm, 2 pcs.

SL 0732-4 Moisture Content Tin with Lid, aluminum, Ø:55 mm h:35 mm

SL 0732-5 Porcelain Dish, 120mm dia.

SL 0732-6 Spatula, 120 mm

BS 1377:2

MAIN FEATURES:

Made from brass

ORDERING:

SL 0733 Linear shrinkage Mold

ACCESSORIES:

SL 0733-1 Vernier Caliper





Voluvessel, 1/20 CU. FT. (1600ML) Capacity

DESCRIPTION:

The Voluvessel determine the in-place density of compacted or firmly-bonded soils using a rubber balloon apparatus viewed through a graduated, direct-reading clear plastic cylinder protected by metal casing.

The model features a plastic cylinder, which screws into the density plate with the pump assembly mounted to the base.

The Voluvessel comes with a pressure-vacuum pump assembly, pressure gauge, quick coupler valve, double graduated cylinder, 10 balloons and a density plate.

| TECHNICAL | Dimensions | Weight | |
|------------------------|----------------|--------|--|
| SPECIFICATIONS: | 250x250x700 mm | 7 kg | |

Guelph Permeameter Apparatus

DESCRIPTION:

The Guelph Permeameter is use for measuring in-situ hydrau lic conductivity.

Accurate evaluation of soil hydraulic conductivity, soil captivity, and matrix flux potential can be made in all types of soils.

The Guelph permeameter is a complete kit consisting of the permeameter, field tripod, well auger, well preparation and cleanup tools, collapsible water container, and vacuum test hand pump, all packaged in a durable carrying case.

TECHNICAL SPECIFICATIONS:

| Dimensions | Weight (approx.) |
|------------|------------------|
| 54X17X7 cm | 40 kg |



MAIN FEATURES:

• Durable, clear plastic cylinder

ORDERING:

SL 0734 Voluvessel complete test set.

ACCESSORIES:

SL 0734-1 Spare Balloons, Pack of 10

ASTM D5126

ORDERING: SL 0735 Guelph Permeameter Complete Set







Falling Head Permeability Apparatus

DESCRIPTION:

The Falling Head Permeameter apparatus is used to determine the permeability of clay-like or silty soils.

The specimen is confined with in the permeameter which is connected to the manometer tube filled with water. The sample must be completely satured with water before the test, and the operator will check the rate of fall of the water in the tube passing through the test specimen.

Falling Head Permeability Set consists of stand with 4 pcs. manometer tubes with connection valves, a Ø100mm permeability cell, soaking reservoir tank and connection hoses. (Water De-Airing equipment should be ordered separately.)

TECHNICAL SPECIFICATIONS:

| | Dimensions | Weight |
|--|-----------------|--------|
| Falling Head Permeability Cell 100 mm dia. | 150x150x260 mm | 3 kg |
| Wooden Stand with 4 Manometer Tubes | 230x100x1700 mm | 6.6 kg |
| Soaking Reservoir Tank | 320x320x250 mm | 3.6 kg |

Constant Head Permeameter Apparatus

DESCRIPTION:

The Constant Head Pemeameter apparatus is used for testing the perme ability of granular soils (sand and gravels).

The specimen is formed in a permeability cell and water is passed through it from a constant level tank. Take off point located along the sides of the permeability cell are connected to three manometer tubes mounted on a

panel complete with a meter scale.

Water passing through the specimen is collected and measured, either for a specific quality or over a period of time. The reduction of head is noted from the variation of water level in the manometer tubes.

Constant Head Permeability Set, consists of a 80 mm dia. constant head permeability cell, wooden stand with 3 pcs. manometer tubes, constant level tank, and 3m connection hoses. (Water De-Airing equipment and tamping rod should be ordered separately.)

Constant Head Permeability Set, consists of a 120 mm dia. constant head permeability cell, wooden stand with 3 pcs. manometer tubes, constant level tank, and 3m connection hoses. (Water De-Airing equipment and tamping rod should be ordered separately.)

ORDERING:

SL 0736 Falling Head Permeability Apparatus

SL 0737 Water De-Airing equipment

ACCESSORIES:

SL 0736-1 Stand with 4 pcs. manometer tubes with connection valves

SL 0736-2 Ø100mm Permeability Cell

SL 0736-3 Soaking Reservoir Tank

SL 0736-4 Connection Hoses

BS 1377:5; ASTM D2434; AASHTO T215

ORDERING: SL 0738 Constant head permeability for 80mm dia cell

SL 0739 Constant head permeability for 120mm dia cell

SL 0740 Water De-Airing equipment

ACCESSORIES:

SL 0738-1 Wooden Stand with 3 pcs. Manometer Tubes _____

SL 0738-2 Manometer Tubes

SL 0738-3 Constant Level Tank

SL 0738-4 Connection Hoses 3m

TECHNICAL SPECIFICATIONS:

| | Dimensions | Weight |
|-------------------------------------|----------------|--------|
| Wooden Stand with 3 Manometer Tubes | 220x70x1700 mm | 5.6 kg |
| Constant Level Water Tank | 300x200x250 mm | 3 kg |
| Tamping Rod | Ø 8x300 mm | 0.5 kg |



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End Over End Shaker

DESCRIPTION:

The Particle density or specific gravity is a measure of the actual particles which make up the soil mass and is defined as the ratio of the mass of the particles to the mass of the water they displace.

This method is suitable for soils containing up to 10% of particles retained on a 37.5 mm BS sieve.

TECHNICAL SPECIFICATIONS:

| Weight (approx.) | Dimensions |
|------------------|----------------|
| 20 kg | 900x700x600 mm |

Sedimentation Hydrometer

BS 1377:2 EN 1997-2

ORDERING: SL 0741 End Over End Shaker 230V 50 Hz, 1 pf

ACCESSORIES: SL 0741-1 Gas jar, 1 ltr. Capacity complete with rubber bung.

EN 933-8; ASTM D2419; AASHTO T176



DESCRIPTION:

The Sedimentation Hydrometer test set is used to determine particle size distribution in soil from the coarse sand size down to the smallest fractions.

In this method the sample is from organic matter after which it is dried and weighed. Next it is suspended in water and sieved.

The solution that passes through the sieve is transferred to a mea suring cylinder with water.

Hydrometer readings are taken after regular intervals. Sedimentation time and hydrometer readings are used to determine the grain sizes according to the stoke's Law.

Sedimentation Hydrometer test set consisting of soil dispersion mixer, hydrometer bath, 1pcs. hydrometer 151H or 152H, sodium hexameta-phosphate 1 kg, 6 pcs. 1000 ml sedimentation cylinder, heater, circula tion pump, rubber stopper and 600 ml beaker.

TECHNICAL SPECIFICATIONS:

| Overall Weight (approx.) | Dimensions |
|--------------------------|----------------|
| 25 kg | 600x300x380 mm |

ORDERING:

SL 0742 Sedimentation Hydrometer test set

ACCESSORIES:

SL 0742-1 Constant Temperature Bath

SL 0742-2 Sodium Hexametaphosphate 500 g

SL 0742-3 Hydrometer Sedimentation Cylinder 1000 ml

SL 0742-4 Mechanical Analysis Stirrer

SL 0742-5 Soil Hydrometer BS/EN, graduated 0.0995 to 1.030 g/ml.

SL 0742-6 Soil Hydrometer AST-M/AASHTO(152H) graduated –5 to +60 g/litre.

SL 0742-7 Soil Hydrometer ASTM D422 (151H)graduated 0.0995 to 1.038 g/ ml.+60 g/litre.

Mechanical Analysis Stirrer

DESCRIPTION:

The compact, bench-top mechanical stirrer is used for dispersing soil samples in water for hydrometer analysis.

The stirrer is supplied complete with Mixing Paddle and Dispersion Cup.



BS ASTM D422; AASHTO T88

MAIN FEATURES:

- Durable, long-lasting mixing unit
- Baffled Dispersion Cup is included

ORDERING: SL 0743 Mechanical Analysis Stirrer

TECHNICAL SPECIFICATIONS:

| Revolutions per Minute | 13,000/18,000rpm speeds | |
|---------------------------|-------------------------|--|
| Electrical | 115V / 60Hz, 7.5 Amps | |
| Product Dimensions | 165 x 171 x 521 mm | |
| Estimated Shipping Weight | 7.71 kg | |

Pyknometer Method

BS 1377, 812-2, EN 1097-7, 1997-2, ASTM D 854, AASHTO T100

DESCRIPTION:

The Pyknometer Method is used to determine the specific gravity of clays, sand and gravel of size smaller than 10mm.

Specific gravity is the ratio of weight to volume of a specific material in air and in water at a constant temperature.

ORDERING:

SL 0744 Density Bottle 25 ml, Supplied complete with capillary vent stopper.

SL 0745

Density Bottle 50 ml, Supplied complete with capillary vent stopper.

<u>SL 0746</u>

Density Bottle 100 ml, Supplied complete with capillary vent stopper.

SL 0747

Pyknometer 1000 ml, Glass jar complete with non-corrodible cone and rubber seal.

ACCESSORIES:

SL 0744-1 Spare Rubber seal



Sand Equivalent Test

EN 933-8, AASHTO T 176; AASHTO T 210; ASTM D2419

DESCRIPTION:

The Sand Equivalent Test indicates the relative portion of undesirable clay-like or plastic fines and dusts that occur in granular soils and fine aggregates passing the No. 4 sieve.

The sample to be tested is placed in a special solution of calcium chloride, formaldehyde and glycerine. After shaking the cylinder, it is allowed to stand for a 20-minute sedimentation period.

Readings are then taken on the cylinder scale for the level of the top of the clay suspension and for the sand level.

The "Sand Equivalent" is the sand reading divided by the clay reading x 100. When the water content of a fine-grained soil is reduced below the plastic limit, shrinkage of the soil mass continues until the shrinkage limit is reached.



Sand Equivalent Shaker

Sand Equivalent Test Set ASTM EN, supplied with 4 pcs. transparent two graduated acrylic plastic measuring cylinders, 2 pcs. solid rubber stopper, syphon assembly (irrigator tube with valve, syphon tube and hose, blow tube and hose, 5 L plastic can with two-hole stopper), plunger assembly, measuring can, wide-mouth funnel, ruler with special set bag. Washing and Flocculating (Stock Solu tion) should be ordered separately.



TECHNICAL SPECIFICATIONS:

| Dimensions | Case: 660 x 203 x 406 mm |
|---------------------------|--------------------------|
| Estimated Shipping Weight | 6.80 kg / 4.08 kg |

AASHTO T 176; AASHTO T 210; 217; 229; ASTM D3744; ASTM D2419

DESCRIPTION:

The Sand Equivalent Shaker is recommended for laboratories performing sand equivalent tests on a regular basis.

The shaker is used for uniform shaking of Sand Equivalent Measuring Cylinders. Provides shaking action at the specified rate and stroke. Clear Plastic Graduated Test cylinder is held securely by base pin and spring-loaded holder on stoppered end.



MAIN FEATURES:

- Improves repeat ability and consistency
- Supplied with a timer



TECHNICAL SPECIFICATIONS:

Dimensions31x61x61 cmWeight36.3 kg

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Sand Cone Density

DESCRIPTION:

The Sand Cone Density is used for on site determination of the degree of compaction of sand.

Two sizes are available:

Sand Cone Set 6.5", complete with valved double cone, 5 It plastic jar, base plate with flanged hole.

Sand Cone Set 12", complete with valved double cone, 5 It plastic jar, base plate with flanged hole.

AASHTO T 191; ASTM D1556

MAIN FEATURES:

- Detachable cone fitting
- Comes with Valve Stopper

ORDERING:

SL 0750 Sand Cone Set 6.5",

SL 0751 Sand Cone Set 12"



| | | Dimensions | Weight |
|------------------------|--------------------|----------------|--------|
| TECHNICAL | Sand Cone Set 6.5" | 300x300x550 mm | 4 kg |
| SPECIFICATIONS: | Sand Cone Set 12" | 600x600x650 mm | 15 kg |

Sand Replacement

DESCRIPTION:

The Sand Replacement is used to determine the dry density of in-situ compact, fine, medium grained soils and for layers not exceeding 50 cm thickness.

A circular hole is dug in the ground, all the soil from within it is collected, weighed and dried.

The hole is then back-filled with standard uniform sand or fine gravel, poured from a calibrated container for calculating the volume of hole.

Complete set consists of pouring cylinder, calibration container and a tray. The sand pouring cylinder is made of cast aluminum and precisely machined. The calibration container and tray are made of plated sheet steel.

BS 1377:9; 1924:2

MAIN FEATURES:Heavy duty precisely machined

ORDERING:

SL 0752 Sand replacement Set 100 mm

SL 0753 Sand replacement Set 150 mm______

SL 0754 Sand replacement Set 200 mm

TECHNICAL SPECIFICATIONS:

| | Dimensions | Weight |
|----------------------------------|----------------|--------|
| Sand Replacement Test Set 100 mm | 300x300x440 mm | 8 kg |
| Sand Replacement Test Set 150 mm | 300x300x500 mm | 14 kg |
| Sand Replacement Test Set 200 mm | 500x500x660 mm | 27 kg |



Riffle Box

DESCRIPTION:

Riffle Boxes are used for dividing soil aggregates into representative sample increment for testing.

Heavy Duty Electrostatic painted and manufactured from heavy gauge sheet metal the slot widths and number of slots as required in the standards.

Riffle boxes are supplied complete with 3 containers easy to handle.

lete le.

BS 1377, 1924, 812; EN 932-1, 933-3; ASTM C72

ORDERING:

| SL 0755 | 7 mm | 2,2 kg |
|---------|-------|---------|
| SL 0756 | 13 mm | 6,2 kg |
| SL 0757 | 15 mm | 8 kg |
| SL 0758 | 19 mm | 9,5 kg |
| SL 0759 | 25 mm | 12,5 kg |
| SL 0760 | 30 mm | 19,9 kg |
| SL 0761 | 38 mm | 21 kg |
| SL 0762 | 45 mm | 24,7 kg |
| SL 0763 | 50 mm | 26,8 kg |
| SL 0764 | 64 mm | 32,1 kg |
| SL 0765 | 75 mm | 35,3 kg |

Universal Sample Splitter

AASHTO T248; AASHTO T27,T92; ASTM C 136; ASTM C 702; ASTM C 778 ;ASTM D 75; BS 1377; ASTM D427

DESCRIPTION:

The Universal Sample Splitter is a rugged, sample divider samples of aggregate, ore and other granular materials.

This original model of the Universal design is suitable for laboratory or field use with materials with particle sizes from 4in (102mm) down to fine sand.

The lever-release allows controlled, accurate splits from the 1ft3 (28.3L) hopper. Made from heavy-gauge painted steel and anodized aluminum.

Adjustable chute design features easy to adjust chutes and spring loaded lever-release hoppers to assure top accuracy when reducing bulk materials.

Particle sizes from 60 microns to 6 inch, Includes 2 pans.

TECHNICAL SPECIFICATIONS:

| Dimensions | 73 <mark>7x48</mark> 3x990 mm |
|---------------------------|-------------------------------|
| Hopper/Pans Capacity | 28.3 L |
| Chute Bar Width | 102mm |
| Chute Bars | 48 |
| Chute Slope | 45° |
| Estimated shipping weight | 61.69 kg |

ORDERING: SL 0766 Universal Sample Splitter



Plate bearing test equipment

DESCRIPTION:

The Plate Bearing Test is used to determine the bearing capacity of a soil under field loading conditions for a specific loading plate and depth of embedment.

It is also used for load tests of soil and flexible pavement components.

Plate Loading Test Set with Digital Dial Gauges and LPI Digital Readout Unit, 200 kN. Supplied complete with Hydraulic hand pump, 1,5 m flexible hose with quick release coupling, Pressure transducer, LPI battery operated digital readout unit, 200kN capacity piston assembly, 300 mm and 450 mm dia. loading plates, 2.4 m long datum bar, 3 pcs. 25 mm travel x 0.01 mm digital dial gauges with dial supports.

Plate Loading Test Set with Digital Dial Gauges and LPI Digital Readout Unit, 500 kN. Supplied complete with Hydraulic hand pump, 1,5 m flexible hose with quick release coupling, Pressure transducer, LPI battery operated digital readout unit, 500kN capacity piston assembly, 600 mm and 760 mm dia. loading plates, 2.4 m long datum bar, 3 pcs. 25 mm travel x 0.01 mm digital dial gauges with dial supports.

ASTM D1194, ASTM D1195, ASTM D1196; BS 1377:9

ORDERING: SL 0767

Plate Bearing test equipment set 200kN

SL 0768 Plate Bearing test equipment set 500kN

ACCESSORIES:

SL 0767-1 Digital Dial Gauge

SL 0767-2 300mm dia loading plate

SL 0767-3 450mm dia loading plate

SL 0767-4 600 mm dia loading plate

SL 0767-5 760 mm dia loading plate

TECHNICAL SPECIFICATIONS:

| | Dimensions | Weight |
|---------|----------------|--------|
| SL 0767 | 650x330x570 mm | 120 kg |
| SL 0768 | 840x840x120 mm | 155 kg |

Electrical Density Gauge

DESCRIPTION:

The Electrical Density Gauge measures pavement density indirectly by measuring its dielectric constant. It passes a small current through the pavement, which creates an electrical sensing field.

Density is measured by the response of this electrical sensing field to changes in the pavement's complex impedance (consisting of the pavement's composite resistivity and dielectric constant).

The advantage of using the electrical density gauge is that the readings can be obtained in seconds.

It contains no radioactive source and therefore not subject to radiological controls. More effective cost control, no licensing or special training needed, easier to use, light in weight.

| TECHNICAL | Dimensions | Weight | |
|-----------------|-------------------|------------------------|--|
| SPECIFICATIONS: | 27.9x27.9x30.4 cm | <mark>19.</mark> 27 kg | |

ASTM standard D7113 and AASHTO T 343-12

MAIN FEATURES:

- Full Color VGA display
- Customizable Project Entries
- Customizable Material Entries
- Diagnostics reading mode

ORDERING:

Electrical Density Gauge for soil

SL 0770 Electrical Density Gauge for asphalt



Nuclear density gauge

DESCRIPTION:

The Nuclear Density Gauge that is better in performance than any other gauge on the market today with the lowest maintenance and operating costs.

Operation is straightforward and uncomplicated. Menu options are easy to read and navigate. A backlit LCD screen and special scroll functions allows operators to easily read.

The gauge uses an advanced micro-processor-based technology to provide highly-accurate measurements of density and moisture that are automatically computed for direct readouts of wet density, dry density, moisture content, percent of moisture, percent of compaction (Proctor or Marshall), void ratio and air voids.

TECHNICALDimensionsWeightSPECIFICATIONS:400x220x140 mm41 kg

Consolidation apparatus

BS 1377:5 / ASTM D2435, D3877, D4546, AASHTO T216

DESCRIPTION:

The One-dimensional Consolidation test is used to determine the consolidation characteristics of soils of low permeability.

Tests are carried out on specimens prepared from undisturbed samples. Data obtained from these tests together with classification data and a knowledge of the soils loading history, enables estimates to be made of the behavior of foundations under load.

The consolidation apparatus is rigidly constructed to ensure minimum frame distortion. The frame is designed to load the specimen through a lever arm assembly and one of three alternative beam ratios as 9:1, 10:1 and 11:1.

The beam is fitted with a counter balance weight and beam support jack. The cell platform will accept the complete range of consolidation cells and is fitted with a central spigot to ensure accurate cen tering of the cell under the loading.

The fixed ring consolidation cells are manufactured from corrosion-resistant materials and conform to the requirements of the relevant standards. An integral water reservoir is incorporated in the cell which allows the specimen to be inundated when required. All cells are supplied complete with upper and lower porous disc, pressure pad and cutting (specimen) ring.

MAIN FEATURES:

- Simple to Operate
- Lightweight

ASTM D6938, D2950, C1040 and AASHTO T310

Prompts user

ORDERING: SL 0771 Nuclear Density Gauge



Consolidation aparatus

BS 1377:5; ASTM D2435; D3877; D4546; AASHTO T216

The Front Loading Oedometer (consolidation) set comes complete with, cast aluminum frame, the lever arm incorporates 9:1, 10:1 and 11:1 beam ratios. Consolidation cell, dial gauge or displacement transducer and data logger, bench, weights, apparatuses for prepare consolidation samples and calibration disc.

> **TECHNICAL SPECIFICATIONS:**

Dimensions 750x850x1400 mm Weight (approx.) 180 kg

ORDERING:

SL 0772 Front Loading Oedometer (consolidation), cast aluminum frame, the lever arm incorporates 9:1, 10:1 and 11:1 beam ratios.

SL 0773

Consolidation cell for high pressure, 50 mm specimen dia., complete with upper and lower porous disc, cutter ring and cylinder wall.

SL 0774

Consolidation cell for high pressure ASTM, 63.50 mm (2.5") specimen dia., complete with upper and lower porous disc, cutter ring and cylinder wall.

<u>SL 0775</u>

Consolidation cell for high pressure BS/EN, 75 mm specimen dia., complete with upper and lower porous disc, cutter ring and cylinder wall.

<u>SL 0776</u> Bench for consolidation with 3 oedometer capacity

SL 0777 Calibration disc for 50 mm dia. consolidation cell, stainless steel

SL 0778 Calibration disc for 63.5 mm dia. consolidation cell, stainless steel

SL 0779 Calibration disc for 75 mm dia. consolidation cell, stainless steel

SL 0780 Set of Weights for consolidation, 16 kg

SL 0781 Set of Weights for consolidation, 32 kg

ACCESSORIES:

SL 0772-1 Set of Weights for consolidation, 50 kg

SL 0772-2 Set of Weights for consolidation, 64 kg

SL 0772-3 Set of Weights for consolidation, 80 kg

SL 0772-4 Dial gauge

SL 0772-5 Digital Dial gauge

SL 0772-6 Displacement transducer

SL 0772-7 Data logger 4 Channel type.

SL 0772-8 Data logger 8 Channel type.



Direct Residual Shear Apparatus

DESCRIPTION:

The Digital Residual Direct Shear Apparatus is used for determination of the direct shear strength of soils specimen. The process is known as shear failure and occurs when shear stresses set up in the soil mass exceed the maximum shear resistance which the soil can offer, i.e. its shear strength.

The Automatic Direct Residual Shear Testing Machine comes complete with, Digital control of speed and data acquisition unit, infinitely variable speed drive from 0.00001 - 9.000000 mm/min via servo motor, wide-screen TFT control unit, 1/9, 1/10, 1/11 loading ratios, complete with a 5 kN load cell, a 25 x 0.001 mm linear potentiometric displacement transducer (for horizontal displacement), a 10 x 0.001 mm linear potantiometric displacement), a 10 x 0.001 mm linear potantiometric displacement transducer (for vertical displacement). Supplied complete with Geotechnical software. Shear box assembly, slotted weight set, specimen cutter and extrusion dolly.

TECHNICAL SPECIFICATIONS:

| Maximum shear force | 5 kN |
|---------------------------|-------------------------------------|
| Maximum vertical force | 5 kN or 50 kN using 10:1 cantilever |
| Maximum horizontal travel | 150 mm |
| Test speed | from 0.00001 to 9.99999 mm/min |
| Sample type and size | up to 100 mm square or round |
| Overall dimensions | 1040 x 350 x 1200 mm (l x d x h) |
| Multivoltage | 230 V, 50 Hz, 60Hz or 110 V, 60 Hz |
| Weight | 130 Kg |



BS 1377, EN 1997-2, ASTM D3080, AASHTO T236

MAIN FEATURES:

- Display of both speed and displacement with high resolution.
- Box group mounted on ball track with high quality antifriction system.
- Read value results are immediate and of extreme accuracy
- Extremely easy and practical use .

ORDERING:

SL 0782 Digital Residual Direct Shear Apparatus

ACCESSORIES:

SL 0782-1 Square Shear Box Assembly, 60x60 mm

SL 0782-2 Square Shear Box Assembly, 100x100 mm

SL 0782-3 Square Shear Box Assembly, Ø 2.5 inch

SL 0782-4 Circular Shear Box Assembly, 60x60 mm dia.

SL 0782-5 Circular Shear Box Assembly, 100x100 mm dia.

SL 0782-6 Circular Shear Box Assembly, Ø 2.5 inch dia.

SL 0782-7 Set of Weights for consolidation, 16 kg

SL 0782-8 Set of Weights for consolidation, 32 kg

SL 0782-9 Set of Weights for consolidation, 50 kg

SL 0782-10 Set of Weights for consolidation, 64 kg

SL 0782-11 Set of Weights for consolidation, 80 kg



Automatic Soil Compactor

ASTM D558, D559, D560, D698, D1557, D1883; EN 13286 2, 13286-47; BS 1377:4 AASHTO T99, T134, T135, T136, T180, T193; NLT 107/98, 108/91, 111/87

DESCRIPTION:

Automatic Soil Compactor is designed to compact specimens automatically and uniformly, assuring conformity with the above listed international standards.

The principle of the design is to allow the hammer to drop the required height into the soil in the mold which rotates circularly to distribute the blows uniformly over the surface of the specimen in the mold.

The Compactor is equipped with programmable digital counter which allows machine to stop at the preset numbers of blows.

The height and weight of the rammer is adjustable to suit test requirements.

The drop weight is adjustable to 300 mm drop height and is also adjustable to 450 mm drop height.

The rammer is circular faced with a 50 mm diameter and is adjustable to 2.5 kg. or 4.5 kg.

An automatic blow pattern ensures effective compaction for each layer of soil and the rammer travels across the mould.

The table rotates the mould in equal steps and the number of blows per layer can be set at the beginning of the test by the digital counter.

The Automatic Soil Compactor is supplied complete with: Programmable digital counter, adjustable falling height (300 mm, 305 mm, 450 mm, 457 mm) and adjustable weight (2.5 kg , 4.5 kg). ASTM/AASH TO /EN/BS rammer.

TECHNICAL SPECIFICATIONS:

| Drop Height | 300 mm, 305 mm, |
|------------------|---------------------------------|
| Rammer Weight | 2.5 kg, 4.5 kg |
| Dimensions | 640 x 340 x 1506 mm (w x l x h) |
| Power | 220 V, 50-60 Hz, 1 ph |
| Weight (approx.) | 135 kg |

ORDERING: SL 0783 Automatic Soil Compactor

ACCESSORIES:

SL 0783-1

Rammer BS/EN, 50 mm dia, adjustable to 2.5 kg or 4.5 kg weight

SL 0783-2

Rammer ASTM, 2 in dia, adjustable to 5.5 lb (2.5 kg) or 10 lb (4.5 kg)



Dry Density, Moisture Relationship, Standard and Modified Proctor Mold



BS1377-4,1924-2,1997-2; ASTM D558,559,560, 698,1557; AASHTO T99, T134 T135, T136

DESCRIPTION:

Moulds and rammers are used for determining the relationship between the moisture content and density of compacted soil.

Made of plated steel, includes collar, mould body and base plate.

The Rammers are used to compact the soil sample in the Proctor Moulds and made of plated steel. Different models are available conforming to the relevant standards.

TECHNICAL SPECIFICATIONS:

Proctor Mold ASTM/AASHTO

| Description | Internal Dia | Body Height | Weight |
|------------------------|----------------|----------------|--------|
| Standard Proctor Mould | 101.6 ± 0.4 mm | 116.4 ± 0.5 mm | 7 kg |
| Modified Proctor Mould | 152.4 ± 0.7 mm | 116.4 ± 0.5 mm | 9 kg |

Proctor Mold EN

| Description | Internal Dia | Body Height | Weight | |
|---------------------------------------|--------------|-------------|--------|--|
| A Type Proctor Mould EN (Standard) | 100 ± 1 mm | 120± 1 mm | 5 kg | |
| B Type Proctor Mould EN (Modified) | 150 ± 1 mm | 120± 1 mm | 8.9 kg | |

Proctor Mold BS

| Description | Internal Dia | Body Height | Weight |
|--|--------------|----------------|--------|
| 1liter Mould (Standard Proctor) BS,TS-1900-1 | 105 ± 0.5 mm | 115,5 ± 0,5 mm | 5 kg |
| CBR Type Mould BS (Modified Proctor) / Vibrating Hammer Mould BS, EN, TS-1900-1 | 152 ± 0.5 mm | 127 ± 1 mm | 7.3 kg |

Proctor Rammer ASTM/AASHTO

| Description | Rammer Dia. | Free Fall Height | Mass of Rammer | Weight |
|---------------------------------------|-------------|------------------|----------------|--------|
| Standard Proctor Compaction Rammer | 50.8 | 304.8±1 | 2495 ± 23 g | 4.5 |
| Modified Proctor Compaction Rammer | 50.8 | 457 ± 1.3 | 4540 ± 10 g | 8 |

Proctor Rammer EN

| Description | Rammer Dia. | Free Fall Height | Mass of Rammer | Weight |
|--|-------------|------------------|----------------|--------|
| A Type Rammer EN (Low Energy-Standard) | 50 ± 0.5 | 305 ± 3 | 2500 ± 20 g | 8 |
| B Type Rammer EN (Medium Energy-Modified) | 50 ± 0.5 | 457 ± 3 | 4500 ± 40 g | 4.5 |

Proctor Rammer BS

| Description | Rammer Dia. | Free Fall Height | Mass of Rammer | Weight |
|--------------------------------|-------------|------------------|----------------|--------|
| 2.5 kg Compaction Rammer BS | 50 ± 0.5 | 300 ± 3 | 2500 ± 25 g | 4.5 |
| 4.5 kg Compaction Rammer BS | 50 ± 0.5 | 450 ± 4 | 4500 ± 50 g | 8 |

ORDERING:

SL 0784 Standard Proctor mold, ASTM/AASHTO.

SL 0785

Modified Proctor mold, ASTM/AASHTO.

SL 0786 A Type Proctor Mould EN (Standard)

SL 0787 B Type Proctor Mould EN (Modified)

SL 0788 1liter Mould (Standard Proctor) BS,TS-1900-1

SL 0789 CBR Type Mould BS (Modified Proctor) / Vibrating Hammer Mould BS, EN, TS-1900-1

SL 0790 Standard compaction rammer, ASTM/AASHTO.

SL 0791 Modified compaction rammer, ASTM/AASHTO.

SL 0792 A Type Rammer EN

SL 0793 B Type Rammer EN

SL 0794 Compaction Rammer BS

SL 0795 4.5 kg Compaction Rammer BS



CBR Test Machine with Load Ring

EN 13286-47; BS 1377:4; ASTM D1883; AASHTO T193; NF P94-078; UNI CNR 10009

DESCRIPTION:

The CBR Test Machine with Load Ring is designed for performing laboratory evaluation of the CBR value of highway sub bases and subgrade and for the determination of strength of cohesive materials which have maximum particle sizes less than 19 mm (3/4").

The CBR Test Machine with 50kN load ring and dial gauge is designed to load the penetration piston into the soil sample at a constant rate to measure the applied load and piston penetration at predetermined intervals.

The machine has a load ring and two dial gauges one for reading penetration and one for the load ring.

The machine is designed to be mounted on a suitable bench and comprises of a robust and compact two column frame with adjustable upper cross beam. The frame has 50 kN capacity. Two test speeds are provided 1.0 mm/min for BS, EN and 1.27 mm/min. for ASTM/EN/AASHTO tests.

This main feature allows the user to perform tests complying to BS, EN or ASTM/EN/AASHTO standards with the same machine. Loading and unloading are down from the front panel by UP/DOWN buttons. Unloading speed is adjusted 5 mm/min for easy re-testing.

The CBR Test Machine is supplied complete with; Load Ring, 50 kN with dial gauge. Digital Gauge with Con nection Part, 25x0.01 mm Penetration Piston

ORDERING:

SL 0796 CBR Test Machine with Load Ring complete set. 50 kN capacity.

ACCESSORIES:

SL 0796-1 Penetration Piston.

SL 0796-2 Penetration Dial Gauge BS, 25 mm x 0.01 mm divisions.

SL 0796-3 Load Ring, 50 KN complete.



TECHNICAL SPECIFICATIONS:

| Dimensions | 480x650x1150 mm |
|------------------|-----------------|
| Weight (approx.) | 110 kg |
| Power | 370 W |

CBR Test Machine with Digital Readout Unit

EN 13286-47; BS 1377:4; ASTM D1883; AASHTO T193; NF P94-078; UNI CNR 10009

DESCRIPTION:

The CBR Test Machine with Digital Readout Unit is designed for performing laboratory evaluation of the CBR value of highway sub bases, subgrade and for the determination of strength of cohesive materials which have maximum particle sizes less than 19 mm.

The CBR Test Machine with Digital Readout is designed to load the penetration piston into the soil sample at a constant rate to measure the applied load and piston penetration at predetermined intervals. The Machine has 2 digital readout units for load and displacement.

The machine is designed to be mounted on a suitable bench and comprises of a robust and compact two column frame with adjustable upper cross beam.

The frame has a capacity of 50 kN. Two test speeds are provided 1.0 mm/min for BS and 1.27 mm/min. for EN AST M/EN/AASHTO tests.

This main feature allows the user to perform tests complying to BS or ASTM/EN/AASHTO standards with the same machine.

Automatic loading and unloading are down from the front panel by UP/DOWN buttons. Unloading speed is adjusted 5 mm/min for easy re-testing.

The CBR Test Machine is supplied complete with:

Load Cell, 50 kN Linear Potentiometric Displacement Transducer with Connection Part, 25x0.001 mm Penetration Piston

TECHNICAL SPECIFICATIONS:

| Dimensions | 480x650x1150 mm |
|------------------|-----------------|
| Weight (approx.) | 110 kg |
| Power | 370 W |

ORDERING:

SL 0797 CBR Test machine with digital readout 50 kN.

ACCESSORIES: SL 0797-1 Penetration Piston.

SL 0797-2 Load Cell, 50 kN

SL 0797-3 Linear Potentiometric Displacement Transducer with Connection Part, 25x0.001 mm





Digital Computerized CBR

EN 13286-47; BS 1377:4; ASTM D1883; AASHTO T193; NF P94-078; UNI CNR 10009

DESCRIPTION:

The Digital Computerized CBR Test Machine is designed for performing laboratory evaluation of the CBR value of highway sub-bases and sub-grade, and determination of the strength of cohesive materials which have maximum particle sizes less than 19 mm (3/4").

The machine is designed to load the penetration piston into the soil sample at a constant rate to measure the applied load and piston penetration at predetermined intervals. The machine has a digital read- out unit on its front panel connected to 50 kN load cell, linear potentiometric displacement transducer (25 mm x 0.001 mm), computer software and connection cable.

The Digital Graphic Display Data Acquisition and Control Unit is designed to control the machine and processing of data from load-cells, pressure transducers or displacement transducers which are fitted to the machine.

All the operations are controlled from the front panel touch screen. It displays all menu option listings simultaneously, allowing the operator to access the required option in a seem less manner.

The Digital Graphic display is able to draw real-time "Load vs. Time", "Load vs. Displacement" or "Stress vs. Time" graphics.

The digital computerized CBR Test Machine is supplied with:

Digital Touch Screen Load Cell, 50 kN Penetration Piston Linear Potentiometric Displacement Transducer Computer Software Connection Cable

ORDERING:

SL 0798 Digital Computerized CBR Test Machine

ACCESSORIES: SL 0798-1

Digital Touch Screen

SL 0798-2 Load Cell

SL 0798-3 Penetration Piston

SL 0798-4 Linear Potentiometric Displacement Transducer

SL 0798-5 Computer software

SL 0798-6 Computer Cable

TECHNICAL SPECIFICATIONS:

| Dimensions | 480x650x1150 mm |
|------------------|-----------------|
| Weight (approx.) | 110 kg |
| Power | 370 W |



In-situ CBR Test Apparatus

DESCRIPTION:

The in-situ California Bearing Ratio is used for the evaluation of the bearing capacity of soil from a vehicle on site immediately and with less delay.

Rigid and stable frame, made from corrosion-proof steel.

The set consists of:

- 50 kN capacity mechanical jack with ball seating
- 50 kN capacity load ring
- Analog penetration dial gauge (30 mm travel x 0.01 mm)
- Adjustable dial gauge holder
- CBR Penetration piston
- Set of extension rods (2 pcs. 102 mm, 1 pcs. 305 mm and
- 1 pcs. 610 mm length)
- Datum bar assembly with two stands
- 4.5 kg annular surcharge weight
- 4.5 Kg slotted surcharge weight
- 9 kg slotted surcharge weight
- Vehicle bracket and wooden carrying case

The Conversion Frame is used to convert the In-situ CBR test to a mechanical laboratory CBR test machine.

The system is easily assembled onto the conversion frame with the addition of some of the accessories included.

BS 1377:9; 1924:2; ASTM D4429; ASTM D1883, AASHTO T193; EN 13286-47

ORDERING:

SL 0799 In-situ CBR Test Machine with Load Ring complete set.

ACCESSORIES:

SL 0799-1 Conversion frame

SL 0799-2 Mechanical Jack

SL 0799-3 Load ring

SL 0799-4 Penetration dial gauge

SL 0799-5 Dial gauge holder

SL 0799-6 Penetration piston

SL 0799-7 Extension rods

SL 0799-8 Datum bar assembly

SL 0799-9 Annular surcharge weight

SL 0799-10 4.5 Kg Slotted surcharge weight

SL 0799-11 9 kg slotted surcharge weight

SL 0799-12 Vehicle Bracket

| Dimensions | Weight (approx.) |
|------------------------|------------------|
| 240x1630x230 mm (case) | 50 kg |
| 380x270x1180 mm | 26 kg |

SOIL EQUIPMENT

Expansion Swell Test Equipment

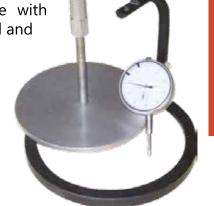
DESCRIPTION:

The Swell Test Equipment is placed on top of the soil sample to enable monitoring of swelling.

The swell test consists of perforated plate with adjustable stem (swell plate) dial gauge tripod and dial gauge.

TECHNICAL SPECIFICATIONS:

| Dimensions | 500x700x400 mm | |
|------------------|----------------|--|
| Weight (approx.) | 3 kg | |



BS 1377:2

ORDERING:

SL 0800 Swell Plate with adjustable stem

SL 0801 Swell Tripod for mounting Swell dial gauge on the CBR mould collar

SL 0802 Dial Gauge 20mm x 0.01 mm

CBR Moulds and Accessories

DESCRIPTION:

The range of moulds and accessories specifically designed to meet the requirements of the relevant standards.

The moulds and accessories are manufactured from high quality, long-lasting material and with proper maintenance will give years of satisfactory performance.



ORDERING:

| EN CBR Moulds and Accessories | | | | |
|-------------------------------|----------------------------------|--|---------|--|
| Product code | Description | Specifications | Weight | |
| SL 0803 | Proctor/CBR mould | With collar and solid base plate. Plated steel. 150 mm dia., 120 mm height | 8.9 kg | |
| SL 0804 | Proctor/CBR mould, split version | With collar and solid base plate. Plated steel. 150 mm dia., 120 mm height | 8.9 kg | |
| SL 0805 | Perforated base plate | Plated steel | 1 kg | |
| SL 0806 | Filter screen | Stainless steel woven mesh, No.100 (150 μm), 144 mm dia. | 0.05 kg | |
| SL 0807 | Compaction rammer | 2" (50.8 mm) dia. rammer face, 457.2 mm fall, 4.54 kg weight | 5.3 kg | |
| SL 0808 | Anular surcharge | Plated steel, 2 kg | 2 kg | |
| SL 0809 | Split surcharge | Plated steel, 2 kg | 2 kg | |
| SL 0810 | Straight edge | 3x30x300 mm | 0.3 kg | |
| SL 0811 | Filter paper | No.1x150 mm dia. Pack of 100 | 0.3 kg | |
| SL 0812 | Swell plate | Perforated with adjustable stem | 1 kg | |
| SL 0813 | Gauge tripod | Non corrodible alloy | 0.3 kg | |
| SL 0814 | Dial gauge | 10 mm travel, 0.01 mm divisions | 0.1 kg | |
| SL 0815 | Dial gauge | 30 mm travel, 0.01 mm divisions | 0.1 kg | |
| SL 0816 | Soaking tank | Plastic, ID 680x490x540 mm | 9.1 kg | |
| SL 0817 | Proctor/CBR mould | With collar and solid base plate Plated steel. 250 mm dia. | 16 kg | |
| SL 0818 | Steel plate (large) | 249.5 mm dia. | 2 kg | |
| SL 0819 | Proctor rammer, high energy | 15 kg falling weight | 17 kg | |

GEOTECHNICAL TESTING EQUIPMENT

ASTM D1883; AASHTO T193; UNE 103-502; UNI 10009 BS 1377:4; BS 1924:2 NF P94-093; NF P94-078; NF P98-231-1 EN 13286-47

ASTM, AASHTO, UNE, UNI CBR Moulds and Accessories

| Product code | Description | Specifications | Weight |
|--------------|-----------------------------|---|---------|
| SL 0820 | CBR mould body | With collar and perf. base plate - plated steel. 6″ dia. (152.4 mm), 7″ (177.8 mm) body height | 7.8 kg |
| SL 0821 | Split CBR mould | Split longitudinally on one side | 8.5 kg |
| SL 0822 | Filter screen | Stainless steel woven mesh, No.100 (150 μm), 144 mm dia. | 0.05 kg |
| SL 0823 | Compaction rammer | 2" (50.8 mm) dia. rammer face, 457.2 mm fall, 4.54 kg weight | 5.3 kg |
| SL 0824 | Sliding weight rammer | 2" (50.8 mm) diameter rammer face, 457.2 mm fall, 4.54 kg weight | 8 kg |
| SL 0825 | Spacer disc with "T" handle | 515/16" dia. (150.8 mm)x 2.416" (61.4 mm) high. Plated steel | 7.5 kg |
| SL 0826 | UNE Spacer disc | 150.8 mm dia. x 36 mm high. Plated steel | 7.5 kg |
| SL 0827 | Anular surcharge | Plated steel, 2.27 kg | 2.27 kg |
| SL 0828 | Slotted surcharge | Plated steel, 2.27 kg | 2.27 kg |
| SL 0829 | Cutting edge | Plated steel | 0.5 kg |
| SL 0830 | Straight edge | 3x30x300 mm | 0.3 kg |
| SL 0831 | Solid CBR base | Plated steel | 1 kg |
| SL 0832 | Filter paper | No.1x150 mm dia. Pack of 100 | 0.3 kg |
| SL 0833 | Swell plate | With adjustable stem | 1 kg |
| SL 0834 | Gauge tripod | Non corrodible alloy | 0.3 kg |
| SL 0835 | 82- Dial gauge | 10 mm travel, 0.01 mm divisions | 0.1 kg |
| SL 0836 | 82- Dial gauge | 30 mm travel, 0.01 mm divisions | |
| SL 0837 | Universal extruder | For 100 to 152.4 mm dia. samples | 25 kg |
| SL 0838 | Soaking tank | Plastic, ID 680x490x540 mm | 9.1 kg |

BS CBR Moulds and Accessories

| Product code | Description | Specifications | Weight |
|--------------|--------------------------------|---|--------|
| SL 0839 | CBR mould body | Plated steel with both ends threaded to fit the base or collar. 152 mm ID.x127 mm high | 3 kg |
| SL 0840 | Extension collar | 152 mm ID. X 50 mm high | 1 kg |
| SL 0841 | Perf. base plate | Plated steel | 1.8 kg |
| SL 0842 | Solid base/ top plate | Plated steel | 1.8 kg |
| SL 0843 | Cutting collar | Plated steel | 1 kg |
| SL 0844 | "C" spanner | To mount and dismount the collar from the mould body. Two required | 1 kg |
| SL 0845 | Tool for base plate | To remove or mount the solid or perf. base plate from the mould | 1 kg |
| SL 0846 | Compaction plug with handle | 150 mm dia. x 50 mm high | 7.2 kg |
| SL 0847 | Compaction rammer | 50 mm dia rammer face, 450 mm fall, 4.5 kg weight | 5.3 kg |
| SL 0848 | Anular weight | Plated steel, 2 kg | 2 kg |
| SL 0849 | Split weight | Plated steel, 2 kg | 2 kg |
| SL 0850 | Tamping bar | 12.7 mm dia. x380 mm long | |
| SL 0851 | Straight edge | 3x30x300 mm | 0.3 kg |
| SL 0852 | Steel rule | 500 mm long | 0.1 kg |
| SL 0853 | Filter paper | No.1x150 mm dia. Pack of 100 | 0.3 kg |
| SL 0854 | Swell plate | With adjustable stem | 1 kg |
| SL 0855 | Gauge tripod | Non corrodible alloy | 0.3 kg |
| SL 0856 | 82- Dial gauge | 10 mm travel, 0.01 mm divisions | 0.1 kg |
| SL 0857 | 82- Dial gauge | 30 mm travel, 0.01 mm divisions | 0.1 kg |
| SL 0858 | Universal extruder | For 100 to 152.4 mm dia. samples | 25 kg |
| SL 0859 | Soaking tank | Plastic, ID 680x490x540 mm | 9.1 kg |



NF CBR Moulds and Accessories

| Product code | Description | Specifications | Weight |
|--------------|----------------------------|--|--------|
| SL 0860 | NF CBR mould | Complete with collar and Perforated base plate. Plated steel. 152 dia. x 152 mm body height | 9 kg |
| SL 0861 | Split NF CBR mould | Split longitudinally on one side | 9 kg |
| SL 0862 | Modified compaction hammer | Rammer face 50 mm dia., fall height 457.2 mm, weight 4.54 kg | 5.3 kg |
| SL 0863 | Filter paper | No. 1 x 150 mm dia. Pack of 100 | 0.3 kg |
| SL 0864 | Spacer disc | Plated steel, 25.4 mm high | 3.8 kg |
| SL 0865 | Anular surcharge weight | Plated steel, 2.3 kg | 2.3 kg |
| SL 0866 | Split surcharge weight | Plated steel, 2.3 kg | 2.3 kg |
| SL 0867 | Cutting edge | Plated steel | 0.5 kg |
| SL 0868 | Straightedge | 3x30x300 mm | 0.3 kg |
| SL 0869 | Swell plate | Plastic with 3 mm dia. holes | 0.3 kg |
| SL 0870 | Dial gauge | 10 mm travel x 0.01 mm | 0.1 kg |
| SL 0871 | Dial gauge | 30 mm travel x 0.01 mm | 0.1 kg |
| SL 0872 | Gauge tripod | Non corrodible alloy | 0.3 kg |
| SL 0873 | Soaking tank | Plastic with supporting base, ID 680x490x540 mm | 9.1 kg |
| SL 0874 | Universal extruder | For 100 to 152.4 mm dia. specimens | 25 kg |

Triaxial Testing Apparatus

BS 1377-7,8 1924-2, ASTM D2850 D4767 AASHTO T296 T297



DESCRIPTION:

In a Triaxial shear test, stress is applied to a sample of the material being tested in a way, which results in stresses along one axis being different from the stresses in perpendicular directions.

This is typically achieved by placing the sample between two parallel platens, which apply stress in one (usually vertical) direction, and applying fluid pressure to the specimen to apply stress in the perpen dicular directions.

This is done by our testing apparatus which allows application of different levels of stress in each of three orthogonal directions X, Y, Z Axis are discussed below, under "True Triaxial test".)

The application of different compressive stresses in the test apparatus causes shear stress to develop in the sample; the loads can be increased and deflections monitored until failure of the sample.

From the Triaxial test data, it is possible to extract fundamental material parameters about the sample, including its angle of shearing resistance, apparent cohesion, and dilatancy angle.

These parameters are then used in computer models to predict how the material will behave in a larger-scale engineering application. An example would be to predict the stability of the soil on a slope, whether the slope will collapse or whether the soil will support the shear stresses of the slope and remain in place.

| Product Code | Dimension | Description | Weight | Power |
|--------------|---|---|--------|-------|
| SL 0875 | 550x650x1100 mm | Triaxial Universal Electromechanic Test Machine | 95 kg | 750 W |
| Product Code | Description | | | |
| SL 0876 | Multispeed Electromechanic Test Machine Frame only, 50 kN capacity, used for making uniaxial, CBR and Marshall tests. Two Testing speed can be set. Digital display data acquisition and controls system, Supplied complete with a 50 kN load cell and a 25 mm x 0.001 mm linear potentiometric displacement transducer. 220-240V, 50-60Hz, 1ph | | | |

There are several variations of the Triaxial test:

Consolidated Drained (CD)

In a 'consolidated drained' test the sample is consolidated and sheared in compression slowly to allow pore pressures built up by the shearing to dissipate. The rate of axial deformation is kept constant, i.e., strain is controlled. The idea is that the test allows the sample and the pore pressures to fully consolidate (i.e., adjust) to the surrounding stresses. The test may take a long time to allow the sample to adjust, in particular low permeability samples need a long time to drain and adjust strain to stress levels.

Consolidated Undrained (CU)

In a 'consolidated undrained' test the sample is not allowed to drain. The shear characteristics are measured under undrained conditions and the sample is assumed to be fully saturated. Measuring the pore pressures in the sample (sometimes called CUpp) allows approximating the consolidated-drained strength. Shear speed is often calculated based on the rate of consolidation under a specific confining pressure (whilst saturated). Confining pressures can vary anywhere from 1 psi to 100 psi or greater, sometimes requiring special load cells capable of handling higher pressures.



| | Product code | Description |
|------------------------|--------------|--|
| TECHNICAL | SL 0877 | Software to Perform CU-CD Triaxial Tests |
| SPECIFICATIONS: | SL 0877-1 | Software to Perform UU Triaxial Tests |

Unconsolidated Undrained (UU)

In an 'unconsolidated undrained' test the loads are applied quickly, and the sample is not allowed to consolidate during the test. The sample is compressed at a constant rate (strain-controlled).

Our Triaxial Test System provides automated triaxial compression tests on cylindrical undisturbed and remolded soil samples. Unconsolidated undrained (UU), consolidated drained (CD) and consolidated undrained (CU) compression tests can be automatically run, controlled and reported using this apparatus.

The Triaxial Testing Apparatus consists of a 50 KN capacity Load Frame, Platen adaptors, dial gauge or digital transducer assembly, Triaxial Cell, Base and pressure system.

The Triaxial Testing Apparatus provide variable speed from 0.399999" (9.99999 mm) per minute to as low as 0.000001" (0.00001 mm) per minute.

An electronic control system with touch-sensitive keypad for precise setting, control and viewing of all load frame functions.

The Data Acquisition and Controls System (DA/CS) for automated data acquisition and recording of test parameters supplied with complete set of Electronic Measurement, Transducers for load, displacement, pressure and volume change.

The Triaxial Software for recording, analysis and report generation, master control panel and de-aired water tank system for precise applications of confining, back and saturation pressures.

Oil and Water Constant Pressure System

The Oil and Water Constant Pressure Unit is extremely versatile and can be used in conjunction with a wide range of test equipment. The unit provides continuous variable pressure up to 1700 kPa. Pressure is increased or decreased simply by turning a control knob.

The Unit is used for providing cell/back pressure in triaxial tests. The apparatus is supplied with out a gauge for those customers who have suitable pressure monitoring equipment.

As optional equipment for monitoring the pressure:

- The Digital Pressure Gauge
- The pressure transducer

The machine features a clear hydraulic/water interface reservoir and up to 1 liter capacity of water is available under pressure. Supplied complete with 2 liters of No.46 regular hydraulic oil.

| | Product Code | Dimension | Description | Weight |
|------------------------|--------------|----------------|--------------------------------------|--------|
| TECHNICAL | SL 0878 | 300x250x250 mm | Oil and Water Constant Pressure Unit | 7.5 kg |
| SPECIFICATIONS: | SL 0879 | 150x150x100 mm | Digital Vacuum and Pressure Gauge | 0.6 kg |

Automatic Volume Change Unit

The Unit consists of a piston connected to a 25 mm travel linear transducer which is sealed against a precision machined calibration chamber so that the linear movement of the piston is exactly proportional to the volume of water in the calibration chamber.

The apparatus creates an electrical signal proportional to the volume of water flowing through the unit. By connecting it to the data acquisition system the measured volume change will be used by software during the test and in final report.

Capacity : 100 cm³ Transducer Input : up to 12 V DC Accuracy : ± 0.1 ml

| Description | Automatic Volume Change Unit | |
|--------------|------------------------------|--|
| Product code | | |
| Dimensions | 260x260x400 mm | |
| Weight | 5 kg | |







Pressure Transducer and Block for Triaxial Test Cells

The Pressure Transducer is used for the measurement of cell or back or pore pressure of water in triaxial test systems and also should be used with a Control Unit or a data logger

The Block for triaxial test cells is used for connection of the pressure transducers and de-airing in the water hoses.

TECHNICAL SPECIFICATIONS

| | Product Code | Description |
|----|--------------|--|
| | SL 0881 | Pressure Transducer, 2000 kPa |
| 5: | SL 0882 | Blockwith One Connection Line for Triaxial Test |
| | SL 0883 | Blockwith Three Connection Line for Triaxial Test |



De-Airing Water Systems

The De-Airing Water Apparatus is a compact and self-contained equipment which can de-air water quickly and efficiently down to levels of dissolved oxygen acceptable for geotechnical test methods. The apparatus used in conjunction with the de-airing tank. Air is removed from the water by a vacuum system. De-airing tank should be ordered separately.

The first option for de-airing water;

- De-Airing Water Apparatus
- De-Airing Water Tank

• Vacuum Control and Water Connection Panel with Regulator and Vacum Gage Manometer or Connection Panel for Vacuum and

Water with Vacuum Gage(These panels are optional)

Plastic Hose

The second option for de-airing water;

- Vacuum Pump
- Filter Flask or Air Drying Unit / Water Trap
- De-Airing Water Tank

Vacuum Control and Water Connection Panel with Regulator and Vacum Gage Manometer or Connection Panel for Vacuum and Water with Vacuum Gage(These panels are optional)
Plastic Hose

By using Vacuum Control and Water Connection Panel, vacum pressure degree can be regulated.

By using de-airing water equipment can be used without repeated assembling the hoses.

| Product code | Description | Dimensions | Weight (approx.) |
|--------------|---|----------------|------------------|
| | De-Airing Water Apparatus | 465x240x340 mm | 15 kg |
| SL 0885 | Vacuum Control and Water Connection Panel with Regulator and Vacum Gage Manometer | 450x150x500 mm | 7 kg |
| SL 0886 | De-Airing Water Tank, 7 L. | 250x250x250 mm | 2.7 kg |
| SL 0887 | Vacuum Pump 51 L/min. Capacity | 300x150x240 mm | 8.5 kg |
| SL 0888 | Air Drying Unit / Water Trap, Vacuum Type | 70x80x170 mm | 0.5 kg |



TECHNICAL SPECIFICATIONS:

| Product Code | Description | UU | UU-CU-CD |
|--------------|--|----|----------|
| SL 0875 | Triaxial Universal Electromechanic Test Machine | 1 | 1 |
| SL 0891 | Load Cell 5 kN | 1 | 1 |
| SL 0889 | Triaxial cell for 38 mm and 50 mm samples | 1 | 1 |
| SL 0890 | Triaxial cell for 70 mm and 100 mm samples | 1 | 1 |
| SL 0882 | Block with one connection line for triaxial test cells | 1 | - |
| SL 0883 | Block with 3 connection lines for triaxial test cells | - | 1 |
| SL 0881 | Pressure transducer | 1 | 3 |
| SL 0878 | Oil and water constant pressure system | 1 | 2 |
| SL 0880 | Automatic volume change unit | - | 1 |
| SL 0892 | Static unilogger 4 channels | - | 1 |
| SL 0877 | Software to perform UU triaxial tests | 1 | 1 |
| SL 0876 | Software to perform CU-CD triaxial tests | - | 1 |
| SL 0886 | De-Airing water tank, 7L. and hose | 1 | 1 |

Triaxial Cells

The cell has been designed and treated to minimize corrosion. Particular attention has been paid to the quality of finish between the piston and the head. Final assembly includes the fitting of an O-ring seal and the use of a special lubricant to reduce friction to a minimum and eliminate water leakage. The piston load capacity is designed to accept high axial loads which may be present during the final stages of a test.

Each cell has five take-off positions drilled in the base for top drainage/back pressure, pore water pressure and bottom drainage. Three no volume change valves and anvil for displacement transducer are supplied complete with the cell. Each cell will accept a range of base adaptors and various accessories for testing a wide range of specimens.



The cell capacity is designed to tolerate confining pressures as high as 1700 kPa which is enough for simulating most in-situ conditions.

| | Product Code | Dimension | Description | Weight |
|-----------------|--------------|----------------|--|--------|
| TECHNICAL | SL 0889 | 160x160x400 mm | Triaxial cell for 38 mm and 50 mm samples | 4.5 kg |
| SPECIFICATIONS: | SL 0890 | 210x210x550 mm | Triaxial cell for 70 mm and 100 mm samples | 12 kg |

Sample Preperation Accessories

| Sample Diameter | 38 mm | 50 mm | 70 mm | 100 mm |
|-------------------|---------|---------|---------|---------|
| Split Sand Former | SL 0893 | SL 0894 | SL 0895 | SL 0896 |
| | SL 0897 | | | |
| | SL 0901 | | | |
| Aliminium Dolly | SL 0905 | SL 0906 | SL 0907 | SL 0908 |

For cell accessories see next page.

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SOIL EQUIPMENT

Cell Accessories

| Sample Diameter(mm) | 38 | 50 | 70 | 100 | UUtest | CU CD test |
|----------------------------------|---------|---------|---------|---------|--------|------------|
| Base Adaptor | SL 0909 | SL 0910 | SL 0911 | SL 0912 | YES | YES |
| Porous Top Cap | SL 0913 | SL 0914 | SL 0915 | SL 0916 | YES | YES |
| Nylon Tubing for Drainage | SL 0917 | SL 0918 | SL 0919 | SL 0920 | - | YES |
| Pair of Porous Discs | SL 0921 | SL 0922 | SL 0923 | SL 0924 | - | YES |
| Rubber Membrane | SL 0925 | SL 0926 | SL 0927 | SL 0928 | YES | YES |
| Membrane Placing Tool (Strecher) | SL 0929 | SL 0930 | SL 0931 | SL 0932 | YES | YES |
| 0 Ring (10pcs.) | SL 0933 | SL 0934 | SL 0935 | SL 0936 | YES | YES |
| 0 Ring Placing Tool | SL 0937 | SL 0938 | SL 0939 | SL 0940 | YES | YES |
| Filter Drain Paper (50 pcs.) | SL 0941 | SL 0942 | SL 0943 | SL 0944 | - | YES |
| Filter Paper Discs (100 pcs.) | SL 0945 | SL 0946 | SL 0947 | SL 0948 | - | YES |
| Plastic Discs (2 pcs.) | SL 0949 | SL 0950 | SL 0951 | SL 0952 | YES | - |

Soil Lathe / Trimmer and Extruder

DESCRIPTION:

The Soil Lathe, Trimmer and Extruder is used to extrude and trim soil samples from 35 mm to 100 mm diameter to reduce samples.

Wire Saw, Trimming Knife, Porcelain Mortar with Pestle. The Rubber Headed Pestle can be ordered separately.

TECHNICAL SPECIFICATIONS:

| | | 35x70 mm to 100x200 mm | |
|--|---------------------------------|------------------------|--|
| | Specimen Trimming and Extrusion | 35x70 mm to 50x100 mm | |
| | Vertical Daylight | 260 mm | |

| Dimensions | 220x300x450 mm | | |
|------------|----------------|--|--|
| Weight | 15 kg | | |

Microspear, Moisture and Temperature

DESCRIPTION:

The instrument measures moisture and temperature of minerals and building materials at depths up to six feet (nearly 2 meters) - simply by insertion. The digital readings are shown instantly. It has a built-in computer which gives it the flexibility to handle a wide range of materials and water contents. This instrument will give you quick results and an alternative for sampling and testing using balances or ovens.

Any environment where minerals or building materials are being shipped, stored or processed



BS1377-7, BS1377-8

ORDERING:

SL 0953 Soil Lathe / Trimmer and Extruder

ACCESSORIES:

SL 0953-1 Wire Saw

SL 0953-2 Trimming Knife

SL 0953-3 Porcelain Mortar with Pestle 130 mm dia

SL 0953-4 Rubber Headed Pestle

BS1377-7, BS1377-8

ORDERING: SL 0954 Microspear, 1 meter long

SL 0955 Microspear, 2 meter long

| IIIII | Measurement Response | 2 seconds |
|-----------------|-------------------------------|--|
| | Moisture Range | 0-25% |
| | Moisture Resolution | ±0.1% |
| | Moisture Accuracy | ±0.5% of reading |
| | Temperature Range | -20°C to 60°C |
| | Temperature Resolution | 0.1°C |
| | Temperature Accuracy | <0.5°C |
| | Weight | 1500g |
| | Material Selections | 6 (user configurable) |
| TECHNICAL | Power Requirements | 4 x 1.5v AA alkaline cells (or equivalent) |
| SPECIFICATIONS: | Shaft Colour Options | Grey / Orange / Yellow / Blue |

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GEOTECHNICAL TESTING EQUIPMENT

Soil Resistivity Meter

DESCRIPTION:

The Soil Resistivity Meter is determined to find soil resistivity for a variety of applications, including pipelines, tanks, wells, etc.....

It is used in the field or in the lab with the optional Soil Box, that is made of strong plastic resins allowing for rugged field use. Material is clear for easy visual inspection and cleaning.

Soil Resistivity Meter ASTM G57, G187 comes complete with Soilbox Brass connectors Banana plug leads, Red Banana plug leads, Black

Soil Resistivity Meter AASHTO T 288 comes complete with Soil box Electrode plates, ss Electrode hardware, ss Leads with clamps

TECHNICAL SPECIFICATIONS:

| Product code | Dimensions |
|-----------------|-------------------|
| SL 0956-1 | 4x6x23.75cm |
| SL 0956-2 | 38x101.5x152.3 mm |
| SL 0956/SL 0957 | 273x 273x 165 mm |
| Weight approx. | 4 Kg |

ASTM G 57, ASTM G 187, AASHTO T288

MAIN FEATURES:

- Display of both speed and displacement with high resolution.
- Box group mounted on ball track with high quality antifriction system.
 Read value results are immediate and
- of extreme accuracy
- Extremely easy and practical use .

ORDERING:

SL 0956 Soil Resistivity Meter ASTM G57, G187 complete

SL 0957 Soil Resistivity Meter AASHTO T 288 complete

ACCESSORIES:

SL 0956-1 Soil box ASTM G57, G187

SL 0956-2 Soil box AASHTO T 288

SL 0956-3 Brass connectors

SL 0956-4 Banana plug leads, Red

SL 0956-5 Banana plug leads, Black

SL 0956-6 Electrode plates, ss

SL 0956-7 Electrode hardware, ss

SL 0956-8 Leads with clamps

SOIL EQUIPMENT

Portable Soil Conductivity Meter

DESCRIPTION:

The Soil Conductivity Meter is a portable thermal conductivity meter used to measure thermal conductivity and thermal resistivity. Perfect for testing the thermal conductivity of soil, polymers, viscous liquids, and other soft materials; as well as testing the thermal conductivity of concrete, rock, stone, or other hard materials. Tests can be performed with the push of a button. The collected data is automatically analyzed and results are displayed immediately.

The Transient Line Source follows ASTM D5334. The sensor needle consists of a thin heating wire and temperature sensor sealed in a 100 or 50 mm steel tube.

The sensor is completely inserted into the sample to be tested. Heat is delivered to the sample using a constant current source (q) and the temperature rise is recorded over a defined period of time. The slope (a) from a plot of temperature rise versus the logarithm of time is used in the calculation of thermal conductivity (k). The higher the thermal conductivity of a sample, the lower the slope. For samples of low thermal conductivity, the higher the slope.

TECHNICAL SPECIFICATIONS:

| Materials | Soil, Rock, Concrete, & Polymers | | |
|--------------------------|-----------------------------------|--|--|
| Measurement Capabilities | Bulk Properties | | |
| Thermal Conductivity | 0.1 to 5 W/mK | | |
| Thermal Resistivity | 0.2 to 10 mK/W | | |
| Measurement Time | 3 min. (100mm) / 5 min. (50mm) | | |
| Reproducibility | Typically better than 2% | | |
| Accuracy | Typically better than 5% | | |
| Temperature Range | -40 to 100°C | | |
| Smallest Sample (100 mm) | 50 mm (diameter or square)x100 mm | | |
| Smallest Sample (50 mm) | 50 mm (diameter or square)x50 mm | | |
| Largest Sample Size | Unlimited | | |

ASTM D5334; ASTM D5930; IEEE 442-1981

MAIN FEATURES:

- Portable, Economical, and Accurate
 - Easy to use
- Standard 100 mm sensor for soft materials
- Optional 50 mm sensor for hard materials
- Soil Conductivity Meter

ORDERING:

SL 0958 Soil Conductivity Meter complete

ACCESSORIES:

SL 0958-1 Thin heating wire

SL 0958-2 Temperature sensor sealed 50 mm

SL 0958-3 Temperature sensor sealed 100 mm

Relative Density Test of Soil

ASTM C31, ASTM C192, ASTM C293, AASHTO T23, AASHTO T97, ASTM D4253-14, ASTM, D4254-14

DESCRIPTION:

This test covers the determination of the maximum dry density and the water content (humidity/density ratio) of cohsionless mixtures to be used in road construction, and where the max density by the impact method is lower than the vibratory method.

The relative density set is proposed in two versions according to EN or ASTM specifications.

Cushioned impact vibrating table with load capacity of 300 lbs. (136.1kg) is used to vibrate products and soil specimens. Table deck is (508 x 508 mm). Table vibrates at 360 vpm. Amplitude or power of vibration is regulated by means of a rheostat in the electricl control circuit.

Relative density mold set, 0.1ft³ (3L) or 0.50.1 ft³ (14L)

Computing volume change of granular soils. The molds are made of cast aluminum and equipped with carrying handles and guide brackets, and come complete with detachable guide sleeve with clamp assembly, surcharge base plate with removable handle, and surcharge weight with handle.

SL 0959-4

SL 0959-5

SL 0959-6

Electric Motor

Vibrating Table

Pouring Funnel Set, for Relative Density Test.

Compass Crane with

Equipment for Calibration of Amplitude of

Relative Density Gauge Set

measures distance from top of the mold to top of base plate after densification (to compute volume change). Set includes a 2in (50.8mm) Dial Indicator with 2in (50.8mm) travel and 0.001in (0.025mm) graduations, a special holder to fit molds, and 3x12x1/8in (76x305x3.2mm) metal calibration bar.

Relative Density Pouring Funnel Set

required for loose placement of 3/8in (9.5mm) and finer granular soils, The Funnel Set includes two 6in (152mm) diameter x 12in (305mm) long metal cylinders, each with funnel and 6in (152mm) long delivery spout attached to one end. Spouts are 1in (25.4mm) and 1/2in (12.7mm) in diameter.

ORDERING:

SL 0959 Relative Density Test Set,ASTM, 380V 50Hz, 3 ph.

ACCESSORIES:

SL 0959-1 Relative Density Mould Set, ASTM, 0.5 ft 3

SL 0959-2 Relative Density Mould Set, ASTM, 0.1 ft 3

SL 0959-3 Relative Density Gauge Set, ASTM

TECHNICAL SPECIFICATIONS:

| Product code | Dimensions | Weight |
|--------------|------------------|--------------------|
| SL 0959 | 1400x760x570 mm | 135 kg |
| SL 0959-1 | 390x390x490 mm | 130 kg |
| SL 0959-2 | 240x240x490 mm | 45 kg |
| SL 0959-3 | 100x100x320 mm | 1,8 kg |
| SL 0959-4 | 170x170x530 mm | <mark>8 k</mark> g |
| SL 0959-5 | 2100x1850x400 mm | 95 kg |

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