

SUPPLIER LAB SIPIL

GENERAL & CONTRACTOR

CV. SATU GARUDA

TESTING EQUIPMENT FOR :

Soil, Aggregate, Cement, Concrete, Asphalt,
Mining & General Machine



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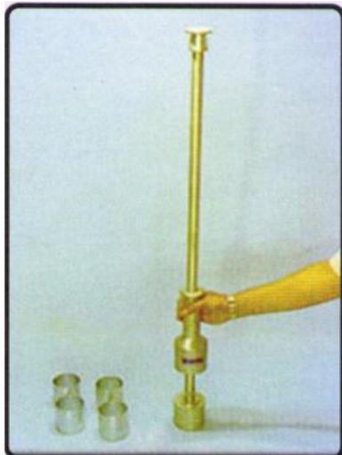
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Soil Equipment



SS -110 A HAND BOR Drilling for soil sampling preparation		
Consist of :		
SS -111	Drilling Rod Solid bar, 1 m length, 1 1/4" dia.	10pcs
SS -112	Iwan Type Auger Welded steel, two radial blades, 4" dia.	1pc
SS -113	Straight Chopping Auger Steel bar, hardened tip, 45 mm width	1pc
SS -114	T-Piece Welded steel	1pc
SS -115	Tube Adaptor Machine steel, with 3 clamping bolts	1pc
SS -116	Turning Rod Machine steel, 1 1/4" dia, 60 cm length.	2pcs
SS -117	Sampling Tube 68 mm dia, 40 cm length, with 3 bolt holes.	10pcs
SS -118	Rod Head Hardened, machined steel, 2 1/2" dia	1pc
SS -119	Parafin	2kg
SS -120	Vertical Guide Machine Steel	1pc
SG -739	Pipe Wrench, 24" Wrench	2pcs
SG -902	Hammer, 5 kg weight	1pc
SG -920	Steel Wire Brush Wooden handle	1pc
Dimension (l x w x h) : 105 x 60 x 60 cm		
Gross Weight : 130 kg		



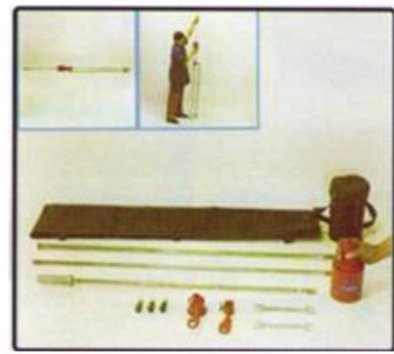
SS -170 CORPS OF ENGINEER SOIL SURFACE SAMPLER For determining soil density in place		
ASTM D-2937		
Consist of :		
SS -171	Hammer Machine steel, plated, 10 lbs sliding weight : 20 falling height.	1set
SS -172	Sampling Tube Machine steel, plated, 3" i.d., 2-7/8" i.d., 2-13/16" length.	12pcs
Dimension (l x w x h) : 115 x 20 x 20 cm		
Gross Weight : 15 Kg		



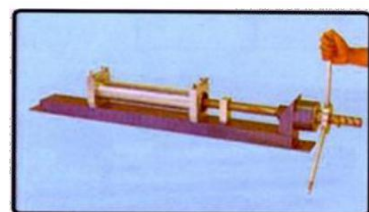
SS -130 A STANDARD PENETRATION TEST For driving a split barrel sampler to obtain a representative soil Sample and measure the soil resistance to penetration		
ASTM D-1586 / AASHTO T-206		
Consist of :		
SS -131	Split Barrel Sampler Hardened machined steel, 1 3/8" I.d; 18" length.	1pc
SS -132	Sampling Rod Steel pipe, 1.5 m length.	20pcs
SS -133	Drive weight Assembly Consist of :	
SS -133.1	Hammer Steel, 63.5 kg weight	1pc
SS -133.2	Anvil Machine steel	1pc
SS -133.3	Guide Rod Steel, 76.2 cm drop height.	1pc
SS -134	Tripod Assembly Consist of :	
SS -134.1	Tripod Stand, Steel pipe	1pc
SS -134.2	Pulley 20 cm dia.	1pc
SS -134.3	Rope 3/4" dia x 15 mtr.	1rol
SS -137	Vertical Guide Machine steel.	1pc
SG -739	Pipe Wrench 24" length.	2pcs
Dimension (l x w x h) : 330 x 60 x 60 cm		
Gross Weight : 445 kg		



SS-145 SAMPLE EXTRUDER elektrik For extruding soil specimen from 68 mm sampling tube, welded steel,	
electric, 220 Volt, 750 Watt, 1 phase, Supplied without sampling tube	
Dimension (l x w x h) : 40 x 50 x 130 cm	
Gross Weight : 60 kg	



SS -150 DYNAMIC CONE PENETROMETER For rapid determination of field CBR Value (rapid quality control)		
Consist of :		
SS -151	Handle Stainless steel	1pc
SS -152	Hammer Machined steel, Painted, 8 kg weight	1pc
SS -153	Guide Rod Stainless steel, 16 mm dia drop height 575 mm.	1pc
SS -154	Anvil Machined steel, welded painted.	1pc
SS -155	Penetration Rod Stainless steel, 16 mm dia, 107 length.	1pc
SS -156	Cone Hardened tool steel cone tip, 60 deg. angle, 20 mm dia., stainless steel adaptor.	3pcs
SS -157	Penetration Scale Stainless steel, 16 mm dia, 100 cm scale.	1pc
SS -158	Carrying Bag Water proof cloth.	1pc
SG -730 A	Open End Wrench Vanadium steel 12/13, 14/15.	2pcs
Dimension (l x w x h) : 115 x 20 x 20 cm		
Gross Weigh : 15 Kg		



SS-140 SAMPLE EXTRUDER manual For extruding soil specimen from 68 mm sampling tube, welded steel, screw type, supplied without sampling tube.	
Dimension (l x w x h) : 125 x 15 x 25 cm Gross Weight : 45 kg	

Soil Equipment



SS-200 DUTCH CONE PENETROMETER
For determining cone and friction resistance of soil layers.

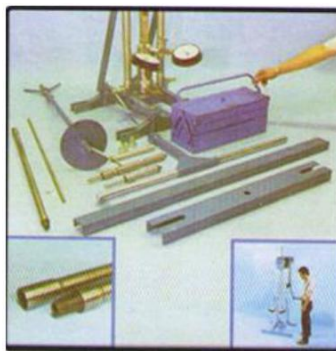
	ASTM D-3441	
	Consist of :	
SS -201	Press-In Apparatus	1set
	Steel construction, manually operated 2.5 tons capacity.	
SS -202 A	Sounding Rod	20pcs
	Machined steel, 36 mm o.d., 1 mtr effective length, tapered thread.	
SS -203	Plunger Rod	20pcs
	Round bar, 15 mm dia, 1 mtr length.	
SS -204	Adaptor	
	Consist of :	
SS -204.1	Push Adaptor	1pc
	Machined steel.	
SS -204.2	Pull Adaptor	1pc
	Machined steel.	
SS -205	Spiral Anchor	
	Consist of :	
SS -205.1	Spiral Anchor	4pcs
	Machined steel, welded 1.5 m length.	
SS -205.2	Handle And T-piece	1set
	Machined steel, welded.	
SS -206 A	Mantel Cone	1pc
	Precision machine steel hardened tip, tapered thread.	
SS -207 A	Friction Cone	1pc
	Precision machine steel hardened, with friction jacket, tapered thread	
SS -208	Wrenches Set	1set
	Pipe wrench (2), adjustable wrench (1), spanner wrench (1) allen key (1), screw driver (1), oil can (1), steel brush (1), piston wrench (1), seals tape (2), oil seals (2), steel box.	
SS -209	Fasten press	
	Beam Cannal.	
	Consist of :	
SS -209.1	Long Fasten Press	2pcs
	1.5 m length, 8 cm width.	
SS -209.2	Short Fasten Press	2pcs
	1 m length, 12 cm width.	
SG -671	Manometer	1pc
	60 kg / cm2 capacity	
SG -673	Manometer	1pc
	250 kg/cm2 capacity.	
	Dimension (l x w x h) : 220 x 120 x 80 cm	
	Gross Weight : 500 kg	



SS-311 A LIQUID LIMIT DEVICE
ASTM D-4318 / AASHTO T-89

Hand operated, brass cup, hard rubber base provided with counter.

Berfungsi untuk menentukan kadar air tanah pada batas cair dengan cara Cassagrande yang akan digunakan untuk menentukan sifat dan klasifikasi tanah. Dimension (l x w x h) : 40 x 40 x 40 cm
Gross Weight : 7 kg



SS-210 DUTCH CONE PENETROMETER
For determining cone and friction resistance of soil layers.

	ASTM D-3441	
	Consist of :	
SS -211	Press-In Apparatus	1set
	Steel construction, manually operated 5 tons capacity.	
SS -202 A	Sounding Rod	20pcs
	Machined steel, 36 mm o.d., 1 mtr effective length, tapered thread.	
SS -203	Plunger Rod	20pcs
	Round bar, 15 mm dia, 1 mtr length.	
SS -204	Adaptor	
	Consist of :	
SS -204.1	Push Adaptor	1pc
	Machined steel.	
SS -204.2	Pull Adaptor	1pc
	Machined steel.	
SS -205	Spiral Anchor	
	Consist of :	
SS -205.1	Spiral Anchor	4pcs
	Machined steel, welded 1.5 m length.	
SS -205.2	Handle and T-piece	1set
	Machined steel, welded.	
SS -206 A	Mantel Cone	1pc
	Precision machine steel, hardened tip, tapered thread.	
SS -207 A	Friction Cone	1pc
	Precision machine steel, hardened, with friction jacket, tapered thread	
SS -208	Wrenches Set	1set
	Pipe wrench (2), adjustable wrench (1), spanner wrench (1) allen key (1), screw driver (1), oil can (1), steel brush (1), piston wrench (1), seals tape (2), oil seals (2), steel box.	
SS -219	Fasten Press	
	Beam Cannal	
	Consist of :	
SS -219.1	Long Fasten Press	2pcs
	1.5 m length, 8 cm width.	
SS -219.2	Short Fasten Press	2pcs
	1 m length, 12 cm width.	
SG -671	Manometer	1pc
	60 kg / cm2 capacity.	
SG -675	Manometer	1pc
	500 kg/cm2 capacity.	
	Dimension (l x w x h) : 220 x 120 x 80 cm	
	Gross Weight : 500 kg	



SS-311 B LIQUID LIMIT DEVICE (ELECTRIC)
ASTM D-4318 / AASHTO T-89

Electric, 220 V-AC, brass cup, hard rubber base, provided with counter.

Berfungsi untuk menentukan kadar air tanah pada batas cair dengan cara Cassagrande yang akan digunakan untuk menentukan sifat dan klasifikasi tanah. Dimension (l x W x h) : 40x40x40 cm
Gross weight : 7 kg



SS-700 Electric Hydraulic Duct Cone Penetrometer
Electric Hydraulic Duct Cone Penetrometer 10 TON

The penetrometer can also be supplied in trailer mounted version or for installation in a sounding truck.

The penetrometer 100 kN-TW, having a separate driving appliance and power unit, botj on a moveable frame for easy transport on the site, ensure a very convenient operation for a wide range of insitu investigation test.

Characteristics :

Max. driving capacity : 100 kN

Max. pulling capacity : 140 kN

Stroke of cylinder : 1175 mm

Sounding speed : 2 cm/sec.

Unloaded speeds :

Upward : 12,5 cm/sec.

Downwards : 12,5 cm/sec.

Consist of :

Hydraulic Driving Appliance 1 unit Engine/pump 8 kw petrol engine 1 unit

Flexible hoses 1 set Control unit 1 set Anchoring tickets 4 pcs

Sounding tubes 36/16 mm dia x 1000 mm, including pressure rod 25 pcs

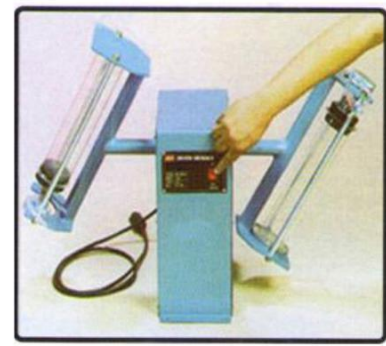
Tool box containing :

Pressure gauges 0-16 x 100N 2 pcs Pressure gauges 0-120 x 100N 2 pcs

Automatic safety valve 1 pc Jacket cones 2 pcs Friction jacket cones 2

pcs Friction reducer 1 pc Spares for petrol engine 1 pc Spares for

hydraulic engine 1 pc Set of service tools 1 pc



SS-338 Mechanical end Over end Shaker
BS-1377

Electric, 220 V/50Hz/1 Ph/50 RPM.

Dimension (l x w x h) : 40 x 60 x 60 cm

Gross weight : 30 kg

Soil Equipment



SS -260 FIELD CBR TEST SET

For determining CBR value on place.

ASTM D-4429

Consist of :

SS -261	Mechanical Jack	
	Cast aluminium housing, 5 tons cap, hand operated, 2 speeds.	
	Consist of :	
SS -261.1	Mechanical Jack	1pc
	5 tons capacity.	
SS -261.2	Swivel head	1pc
	Cast aluminium.	
SS -262	Field Penetration Piston	
	Machine steel, plated, adjustable height.	
	Consist of :	
SS -262.1	Penetration Piston	1pc
	Machine steel, plated, 3 sq.in.cross section area.	
SS -262.2	Extention set	1set
	Machined steel, plated, 5 cm, 10 cm, 20 cm, 30 cm, and 60 cm, provided with connecting adaptor.	
SS -263	Reference Beam	1set
	Steel pipe, 150 cm span.	
SS -264	Circular Surcharge Weight	1pc
	Machine steel, plated, 10" dia, 10 lbs weight.	
SS -265	Slotted Surcharge Weight	1pc
	Machine steel, plated, 8" dia, 10 lbs weight.	
SS -266	Slotted Surcharge Weight	1pc
	Machine steel, plated, 8.5" dia, 20 lbs weight.	
SG -101/5	Proving Ring	1set
	2,000 lbs capacity.	
SG -101/7	Proving Ring	1set
	10,000 lbs capacity.	
SG -137	Dial Indicator	1pc
	Range 30 x 0.01 mm.	
SG -140	Dial Holder	1pc
	Magnetic.	
	Dimension (l x w x h) : 140 x 35 x 35 cm	
	Gross Weight : 75 Kg	



SS -280 TVA PENETROMETER

Widely used in analyzing soil surface

Consist of :

SS -281	Penetration Rod and Chamber	
	Steel pipe, 65 cm length with hydraulic chamber.	
	Consist of :	
SS -281.1	Penetration Rod	2pcs
	Round bar, 40 cm length.	
SS -281.2	Hydraulic Chamber	1pc
	Machine steel, 100 kg cap.	
SS -282	Penetration Needle	1set
	Machine steel, hardened, tip 0.5, 1.0, 2.0, 3.0 sq. cm. cross section area.	
SS -283	Holder	1pc
	Aluminium handle.	
SS -284	TVA Manometer	1pc
	100 kg capacity.	
SS -285	Carrying Case	1pc
	Wooden case.	
SG -730 A	Open End Wrench	2pcs
	Vanadium steel.	
	Dimension (l x w x h) : 65 x 35 x 20 cm	
	Gross Weight : 10 Kg	

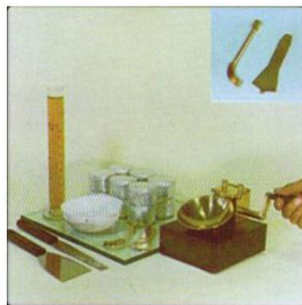


SS -270 PROVING RING PENETROMETER

For determining penetration resistance of soil layers.

Consist of :

SS -271	Penetration Rod	2pcs
	Round bar, 51.5 CM/49 cm length with 5 cm increment lines.	
SS -272	Penetration Cone	2pcs
	Machine steel, hardened, plated, 1 sq. in cross section area, 30 deg. angle.	
SS -273	Holder	1pc
	Aluminium handle.	
SS -274	Carrying Case	1pc
	Wooden case.	
SG -101/1	Proving Ring	1set
	100 kg capacity.	
SG -730 A	Open End Wrench	2pcs
	Vanadium steel.	
	Dimension (l x w x h) : 65 x 35 x 20 cm	
	Gross Weight : 10 kg	



SS -310 LIQUID LIMIT TEST SET

For determining liquid limit of soil sample

ASTM D-4318 / AASHTO T-89

Consist of :

SS -311	Liquid Limit Device	1set
	Hand operated, brass cup, hard rubber base.	
SS -312	ASTM Grooving Tool	1pc
	Machine steel, head gauge.	
SS -313	Cassagrande Grooving Tool	1pc
	Brass plate.	
SG -390	Thin Box	12pcs
	Aluminium, 60 gr capacity.	
SG -396	Glass Plate	1pc
	Glass, 10 mm thick, 30 x 30 cm.	
SG -402	Graduated Cylinder	1pc
	100 ml capacity.	
SG -501	Porcelain Dish	1pc
	12 cm dia, 250 ml capacity	
SG -820	Spatula	1pc
	150 mm blade.	
SG -825	Scraper	1pc
	100 mm blade.	
	Dimension (l x w x h) : 40 x 40 x 40 cm	
	Gross Weight : 10 kg	



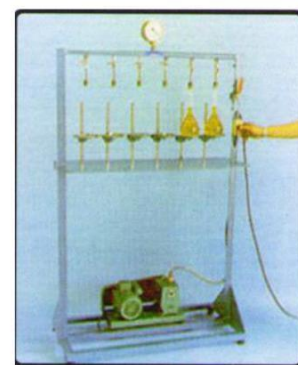
SS -250 PLATE BEARING TEST SET

For determining ultimate beaing capacity of soil on place by means of field loading test.

ASTM D-1194 / AASHTO T-235

Consist of :

SS -251	Hydraulic Jack	
	30 tons capacity, manometer read out, hand operated.	
	Consist of :	
SS -251.1	Manometer	1pc
	6" dia, 30 tons capacity, 0.5 tons increment.	
SG -681	Hydraulic Cylinder	1pc
	30 tons capacity.	
SG -691	Hydraulic Hand Pump	1pc
	Double action, 10,000 psi capacity.	
SG -699	Hydraulic Hose	2pcs
	10,000 psi, 180 cm length.	
SS -252	Reference Beam	1set
	Steel pipe, 2 x 150 cm span.	
SS -253	Circular Bearing Plate	1pc
	6" dia, machined steel, 1" thick.	
SS -254	Circular Bearing Plate	1pc
	10" dia, machined steel, 1" thick.	
SS -255	Circular Bearing Plate	1pc
	12" dia, machined steel, 1" thick.	
SS -256	Circular Bearing Plate	1pc
	18" dia, machined steel, 1" thick.	
SS -257	Circular Bearing Plate	1pc
	24" dia, machined steel, 1" thick.	
SS -258	Circular Bearing Plate	1pc
	30" dia, machined steel, 1" thick.	
SS -259	Square Bearing Plate	1pc
	12" x 12", machined steel, 1" thick.	
SG -137	Dial Indicator	4pcs
	Range 30 x 0.01 mm	
SG -140	Dial Holder	4pcs
	Magnetic	
	Dimension (l x w x h) : 150 x 80 x 80 cm	
	Gross Weight : 300 Kg	



SS-339 A Vacuum Stand

To facilitate evacuation of air from soil/fine aggregate in flask.

6 flask capacity, supplied with vacuum pump.

Dimension (l x w x h) : 120 x 70 x 160 cm
Gross weight : 80 kg

Soil Equipment



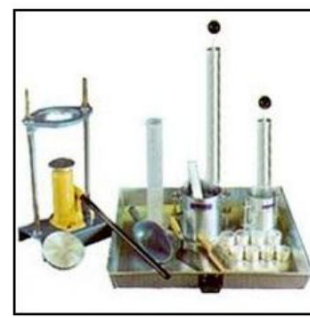
SS -320 SHRINKAGE LIMIT TEST SET
For determining shrinkage limit of soil sample
ASTM D-427 / AASHTO T-92

	Consist of :	
SS -321	Prong Plate 3 mm hard plastic, 3 needles.	1pc
SS -322	Monel Shrinkage Dish Flat bottom, 40 mm dia, 12 mm height approx.	1pc
SS -323	Cristalizing Dish Glass made.	
	Consist of :	
SS -323.1	Dish 5 cm dia approx.	1pc
SS -323.2	Overflow Dish 9 cm dia approx.	1pc
SS -324	Mercury Bottled.	1kg
SG -396	Glass Plate	1pc
SG -390	Thin Box	12pcs
SG -402	Graduated Cylinder 100 ml capacity.	1pc
SG -501	Porcelain Dish 12 cm dia, 250 ml capacity.	1pc
SG -820	Spatula 150 mm blade.	1pc
SG -825	Scraper 150 mm blade.	1pc
Dimension (l x w x h) : 10 x 10 x 30 cm		
Gross Weight : 6 kg		



SS -330 A HYDROMETER ANALYSIS TEST SET
For determining grain size distribution of fine soil sample
ASTM D-422 / AASHTO T-88

	Consist of :	
SS -331	Hydrometer A (152 H) Glass, stream line, range 0 - 60 gr soil/ ltr.	1pc
SS -332	Hydrometer B (151 H) Glass, stream line, range 0.995-1.038	1pc
SS -333	Mechanical Stirrer Electric, 220 volt, cast aluminium frame, 10.000 rpm.	1pc
SS -334	Dispersion Cup Stainless steel, brass baffles.	1pc
SS -335	Hydrometer Jar Bath Steel sheet, fibre glass coated, temperature control.	
	Consist of :	
SS -335.1	Bath Steel sheet, fibre glass coated, 60 x 30 x 40 cm.	1pc
SS -335.2	Water Heater Electric, range ambient to 60 deg. C	1pc
SS -336	Dispersion Agent Consist of :	
SS -336.1	Sodium Hexa Bottled, powder.	1kg
SS -336.2	Water Glass Bottled, liquid.	1kg
SS -337	Hydrometer Jar Glass, 1000 ml capacity.	3pcs
SG -405	Graduated Cylinder 1000 ml capacity.	1pc
SG -600	Thermometer Range 0 - 50 deg.C	1pc
Dimension (l x w x h) : 90 x 50 x 50 cm		
Gross Weight : 50 kg		



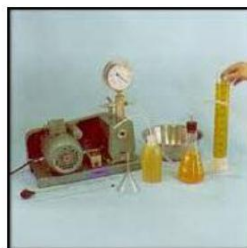
SS -350 COMPACTION TEST SET
For determining moisture - density relationship
ASTM D-698/D-1557; T-99/ T-280.

	Consist of :	
SS -351	Standard Proctor Mold Machine steel, plated, 4" i.d., 4.584" height, 2" height of collar.	1pc
SS -352	Modified Proctor Mold Machine steel, plated, 6" i.d., 4.584" height, 2" height of collar.	1pc
SS -353	Standard Proctor Hammer Machine steel, plated, 12" drop height, 5.5 lbs weight.	1pc
SS -354	Modified Proctor Hammer Machine steel, plated, 18" drop height, 10 lbs weight.	1pc
SS -355	Extruder Steel frame, hydraulic jack.	1set
SG -303	Square Pan Galvanized steel 65 x 65 x 7.5 cm.	1pc
SG -390	Thin Box Aluminium, 60 gr capacity.	12pcs
SG -405 A	Graduated Cylinder Plastic, 1.000 ml capacity.	1pc
SG -801	Scoop Cast Aluminium.	1pc
SG -871	Trowel Pointed type.	1pc
SG -890	Straight Edge 30 cm length.	1pc
SG -900	Rubber Mallet Wooden handle.	1pc
SG -920	Steel Wire Brush Wooden handle.	1pc
Dimension (l x w x h) : 62 x 62 x 40 cm		
Gross Weight : 120 kg		



SS -340 SPECIFIC GRAVITY (HEATING METHOD)
For determining specific gravity of soil
ASTM D-854 / AASHTO T-100

	Consist of :	
SG -191	Hot Plate Electric, 220 Volt.	1pc
SG -237	Asbestos Wire Gauze 15 x 15 cm.	1pc
SG -363	Mixing Bowl Stainless steel, 250 mm dia.	1pc
SG -441	Density Bottle 100 ml capacity.	3pcs
GE-473	Funnel Glass.	1pc
SG -521	Wash Bottle 250 ml capacity.	1pc
SG -601	Thermometer Range 0 - 100 deg.C	1pc
Dimension (l x w x h) : 40 x 40 x 40 cm		
Gross Weight : 10 kg		



SS -340 A SPECIFIC GRAVITY (VACUUM METHOD) For
determining specific gravity of soil / aggregate sample
ASTM D-854 / AASHTO T-100

	Consist of :	
SS -341	Vacuum Stand Wooden base, steel pipe column, 2 valves.	1set
SG -363	Mixing Bowl Stainless steel, 250 mm dia.	1pc
SG -404	Graduated Cylinder 500 ml capacity.	1pc
SG -412 A	Volumetric Flask 500 ml capacity, vacuum.	2pcs
SG -473	Funnel Glass, wide mouth.	1pc
SG -521	Wash Bottle 250 ml capacity.	1pc
SG -530	Pipette Glass, 5 ml capacity.	1pc
SG -600	Thermometer Range 0 - 50 deg.C	1pc
SG -679	Vacuum Manometer 4" dia., 0 - 76 cm HG.	1pc
SG -680	Vacuum Pump Rotary pump.	1pc
Dimension (l x w x h) : 60 x 60 x 60 cm		
Gross Weight : 40 kg		



SS -340 B SPECIFIC GRAVITY (VACUUM METHOD)
For determining specific of soil sample
ASTM D-854 / AASHTO T-100

	Consist of :	
SS -342	Vacuum Hose Plastic hose with rubber bung, 1 valve.	1set
SG -363	Mixing Bowl Stainless steel, 250 mm dia.	1pc
SG -404	Graduated Cylinder 500 ml capacity.	1pc
SG -432 A	Erlenmeyer Flask 500 ml capacity.	1pc
GE-473	Funnel Glass, wide mouth.	1pc
SG -521	Wash Bottle, 250 ml capacity.	1pc
SG -530	Pipette Glass, 5 ml capacity.	1pc
SG -600	Thermometer Range 0 - 50 deg.C.	1pc
SG -679	Vacuum Manometer 4" dia., 0 - 76 cm HG.	1pc
SG -680	Vacuum Pump Rotary Pump.	1pc
Dimension (l x w x h) : 70 x 70 x 70 cm		
Gross Weight : 45 kg		

Soil Equipment

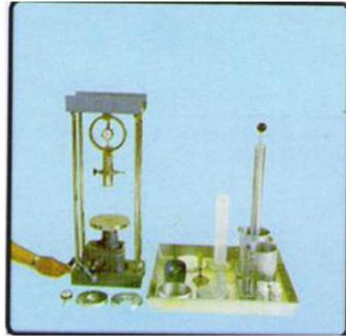


SS -360 A LABORATORY CBR TEST SET
For determining the bearing ratio of soil

ASTM D-1883 / AASHTO T-193
Consist of :

SS -361 A	Electrical Loading Machine	1set
	Electric, 220 V-AC, 1/2 HP, 1 Phase, speed 0.05"/min reversing switch 10.000 lbs capacity.	
SS -362	CBR Mold	3pcs
	Machine steel, 6" i.d, 7" height, 2" height of collar.	
SS -363	Spacer Dish	1pc
	Machine steel, 5 15/16" dia, 2.416" height.	
SS -364	Cutting Edge	1pc
	Machine steel, sharp edge.	
SS -365	Circular Surcharge Weight	3pcs
	Machine steel, 5 7/8" dia 5 lbs weight.	
SS -366	Slotted Surcharge Weight	3pcs
	Machine steel, 5 7/8" dia 5 lbs weight.	
SS -354	Modified Proctor Hammer	1pc
	Machine steel, plated, 18" drop height, 10 lbs weight.	
SS -367	Swell Plate	1pc
SS -368	Swell Tripot	1pc
SS -369	Filter Paper	1box
	6" dia., 100 sheets/box.	
SG -101/6	Proving Ring	1set
	6.000 lbs capacity.	
SG -131	Dial Indicator	1pc
	Range 0.01" x 1".	
SG -303	Square Pan	1pc
	Galvanized steel, 65 x 65 x 7.5 cm.	
SG -390	Thin Box	12pcs
	Aluminium, 60 gr capacity.	
SG -405 A	Graduated Cylinder	1pc
	Plastic, 1000 ml capacity.	
SG -801	Scoop	1pc
	Cast aluminium.	
SG -871	Trowel	1pc
	Pointed type.	
SG -890	Straight Edge	1pc
	300 mm length.	

Dimension (l x w x h) : 110 x 70 x 120 cm
Gross Weight : 200 kg



SS -360 B LABORATORY CBR TEST SET
For determining the bearing ratio of soil

ASTM D-1883 / AASHTO T-193
Consist of :

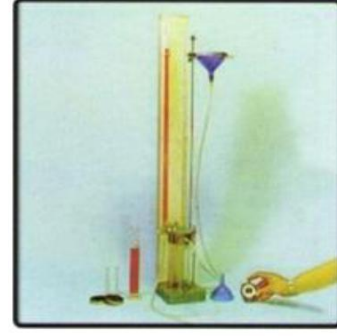
SS -361 B	Mechanical Loading Machine	1set
	Steel frame, hand operated, two speeds, 10.000 lbs capacity.	
SS -362	CBR Mold	3pcs
	Machine steel, 6" i.d, 7" height, 2" height of collar.	
SS -363	Spacer Dish	1pc
	Machine steel, 5 15/16" dia, 2.416" height.	
SS -364	Cutting Edge	1pc
	Machine steel, sharp edge.	
SS -365	Circular Surcharge Weight	3pcs
	Machine steel, 5 7/8" dia 5 lbs weight.	
SS -366	Slotted Surcharge Weight	3pcs
	Machine steel, 5 7/8" dia 5 lbs weight.	
SS -354	Modified Proctor Hammer	1pc
	Machine steel, plated, 18" drop height, 10 lbs weight.	
SS -369	Filter Paper	1box
	6" dia., 100 sheets/box.	
SG -101/6	Proving Ring	1set
	6.000 lbs capacity.	
SG -131	Dial Indicator	1pc
	Range 0.01" x 1".	
SG -303	Square Pan	1pc
	Galvanized steel, 65 x 65 x 7.5 cm.	
SG -390	Thin Box	12pcs
	Aluminium, 60 gr capacity.	
SG -405 A	Graduated Cylinder	1pc
	Plastic, 1000 ml capacity.	
SG -801	Scoop	1pc
	Cast aluminium.	
SG -871	Trowel	1pc
	Pointed type.	
SG -890	Straight Edge	1pc
	300 mm length.	

Dimension (l x w x h) : 110 x 70 x 120 cm
Gross Weight : 200 kg

SS -400 SAND CONE TEST SET
For determining the density of compacted soil in place
ASTM D-1556 / AASHTO T-191

	Consist of :	
SS -401	Sand Cone Bottle	1pc
	Plastic, 4 ltr. cap. approx.	
SS -402	Sand Cone Funnel	1pc
	Seamless metal, turning stopper, 6 1/2" dia bottom, 1/2" neck dia.	
SS -403	Base Plate	1pc
	Cast aluminium, 12" x 12".	
SS -404	Graduated Sand	1zak
	Uncemented sand, passing # 10, retained # 60, 25 kg capacity.	
SG -380	Sample Can	6pcs
	Round can, tinned metal.	
SG -801	Scoop	1pc
	Cast aluminium.	
SG -861	Spoon	1pc
	Stainless steel.	
SG -871	Trowel	1pc
	Pointed type.	
SG -880	Chisel	1pc
	Hardened type.	
SG -900	Rubber Mallet	1pc
	Wooden handle, 0,5 kg weight	

Dimension (l x w x h) : 70 x 70 x 50 cm
Gross Weight : 50 kg



SS -370 COMBINATION PERMEAMETER
For determining coefficient of permeability of soil sample
ASTM D-2434 / AASHTO T-215

	Consist of :	
SS -371	Sample Chamber	1set
	Transparent fibre glass, 2 1/2" i.d, 8" height, compressive spring, cast aluminium body.	
SS -372	Funnel	1pc
	Plastic, wide mouth, with over flow.	
SS -373	Frame	1pc
	Aluminium.	
SS -374	Porous Stone	2pcs
	2 1/2" diameter.	
SG -375	Burette	1pc
	50 ml capacity.	
SG -402	Graduated Cylinder	1pc
	100 ml capacity.	
SG -700	Stop Watch	1pc
	60 sec sweep.	

Dimension (l x w x h) : 110 x 40 x 30 cm
Gross Weight : 10 kg



SS -390 A COMPACTION PERMEAMETER TEST SET
For determining coefficient of permeability of soil sample

	Consist of :	
SS -390	Compaction Permeameter	1set
	1/30 cu. ft. mold, 4" i.d, inlet-outlet connector, overflow valve, porous stone.	
SS -391	Frame	1set
	Cast aluminium base, aluminium column, 3 burette (5, 10, 15 mm diameter)	
SG -402	Graduated Cylinder	1pc
	100 ml capacity.	
SG -700	Stop Watch	1pc
	60 sec. sweep.	

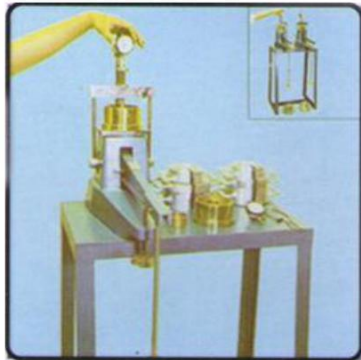
Dimension (l x w x h) : 30 x 30 x 50 cm
Gross Weight : 35 kg

Soil Equipment



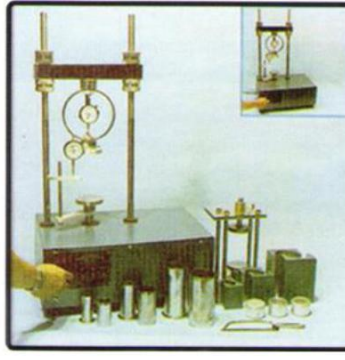
SS -430 SPEEDY MOISTURE TESTER
For determining the moisture content of soil by means of calcium carbide gas pressure meter.

	AASHTO T-217	
	Consist of :	
SS -432	Speedy Gauge M/C range 0-20 %, sens. : 0.2 %, sample weight 20 gr.	1pc
SS -434	Speedy Balance Brass beam, Cast aluminium frame, 10 gr counter balance.	1pc
SS -435	Calcium Carbide Calcium Carbide.	1can
SS -436	Measuring Spoon 1pc Cast Aluminium.	
SS -437	Crushing Ball Steel ball.	2pcs
SS -438	Cleaning Brush Wooden/plastic Holder.	1pc
SS -439	Carrying Case Wooden case with handle.	1pc
Dimension (l x w x h) : 45 x 45 x 30 cm		
Gross Weight : 15 kg		



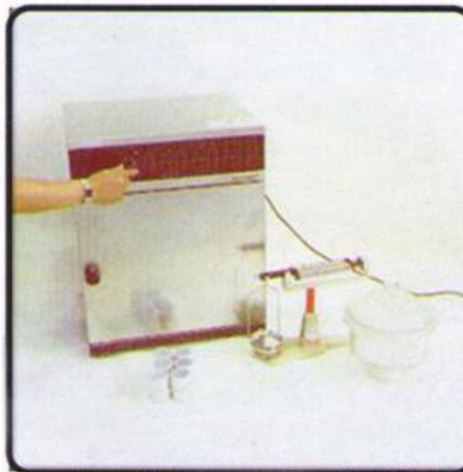
SS -515 CONSOLIDATION TEST SET
For determination the rate and magnitude of consolidation of soil when it is Restrained laterally, Loaded and drained axially
ASTM D-2435 / AASHTO T-216

	Consist of :	
SS -516	Consolidation Frame Consist of :	
SS -516.1	Frame Cast aluminium, two test unit.	1set
SS -516.2	Loading set Three alternative lever arm 1:9, 1:10, 1:11	2set
SS -517	Consolidometer Brass, 50.5 mm sample dia. , porous stone loading capacity.	2set
SS -518	Loads Consist of :	
SS -518.1	Load, 500 gr	4pcs
SS -518.2	Load, 1000 gr	2pc
SS -518.3	Load, 2000 gr	2pc
SS -518.4	Load, 4000 gr	2pc
SS -518.5	Load, 8000 gr	2pc
SS -519	Sample Tube Machine steel, 50.5 mm dia. galvanized, with extruder.	1set
SG -135	Dial Indicator Range 10 mm x 0.01 mm	2pcs
SG -840	Wire Saw 10 cm length approx.	1pc
Dimension (l x w x h) : 80 x 80 x 150 cm		
Gross Weight : 130 kg		



SS -500 A UNCONFINED COMPRESSION MACHINE
For determining stress strain relationship of cohesive soil without confining pressure

	ASTM D-2166 / AASHTO T-208	
	Consist of :	
SS -501A	Unconfined Compression Machine 1set Electric, 220 V-AC, 200 W, variable speed, adjustable height.	
SS -502	Sample Tubes Consist of :	
SS -502.1	Sample Tubes 35.0 mm dia x 70 mm height	1pc
SS -502.2	Sample Tubes 47.5 mm dia x 95 mm height	1pc
SS -502.3	Sample Tubes 70.0 mm dia x 140 mm height	1pc
SS -503	Split Sample Tubes Consist of :	1pc
SS -503.1	Split Sample Tubes 35.0 mm dia x 70 mm height	1pc
SS -503.2	Split Sample Tubes 47.5 mm dia x 95 mm height	1pc
SS -503.3	Split Sample Tubes 70.0 mm dia x 140 mm height	1pc
SS -504	Extruder Consist of :	1pc
SS -504.1	Extruder 34.5 mm dia x 71 mm height	1pc
SS -504.2	Extruder 47.0 mm dia x 96 mm height	1pc
SS -504.3	Extruder 69.5 mm dia x 141 mm height	1pc
SS -505	Trimmer Steel frame, 3 tubes size	1set
SG -101/1	Proving Ring , 100 kg capacity	1set
SG -137	Dial Indicator Range 30 mm x 0.01 mm	1pc
SG -390	Thin Box Aluminium, 60 gr capacity	12pcs
SG -840	Wire Saw 10 cm length approx.	1pc
Dimension (l x w x h) : 80 x 40 x 40 cm		
Gross Weight : 50 kg		



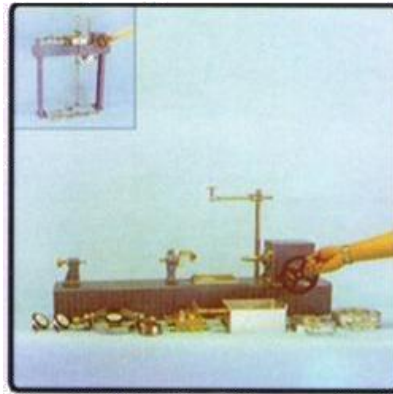
SS -500 UNCONFINED COMPRESSION MACHINE
For determining stress strain relationship of cohesive soil without confining pressure

	ASTM D-2166 / AASHTO T-208	
	Consist of :	
SS -501	Unconfined Compression Machine Cast aluminium, gear box, adjustable height of top platen, hand operated 200 Kg capacity.	1set
SS -502	Sample Tubes Consist of :	
SS -502.1	Sample Tubes 35.0 mm dia x 70 mm height	1pc
SS -502.2	Sample Tubes 47.5 mm dia x 95 mm height	1pc
SS -502.3	Sample Tubes 70.0 mm dia x 140 mm height	1pc
SS -503	Split Sample Tubes Consist of :	1pc
SS -503.1	Split Sample Tubes 35.0 mm dia x 70 mm height	1pc
SS -503.2	Split Sample Tubes 47.5 mm dia x 95 mm height	1pc
SS -503.3	Split Sample Tubes 70.0 mm dia x 140 mm height	1pc
SS -504	Extruder Consist of :	1pc
SS -504.1	Extruder 34.5 mm dia x 71 mm height	1pc
SS -504.2	Extruder 47.0 mm dia x 96 mm height	1pc
SS -504.3	Extruder 69.5 mm dia x 141 mm height	1pc
SS -505	Trimmer Steel frame, 3 tubes size	1set
SG -101/1	Proving Ring 100 kg capacity	1set
SG -137	Dial Indicator Range 30 mm x 0.01 mm	1pc
SG -390	Thin Box Aluminium, 60 gr capacity	12pcs
SG -840	Wire Saw 10 cm length approx.	1pc
Dimension (l x w x h) : 70 x 70 x 70 cm		

SS -450 MOISTURE CONTENT TEST SET
For determining the moisture content of soil sample

	Consist of :	
SG -150	Cent O-Gram Balance 311 gr cap., 0.01 gr sens.	1pc
SG -174	Drying Oven 53 ltr. capacity, internal dimension (l x w x h) 400 x 400 x 330 mm 220 V, 1400 W.	1pc
SG -390	Thin Box Aluminium, 60 gr capacity.	12pcs
SG -451	Dessicator Transparent glass, 24 cm dia, approx.	1pc
Dimension (l x w x h) : 80 x 80 x 110 cm		
Gross Weight : 100kg		

Soil Equipment

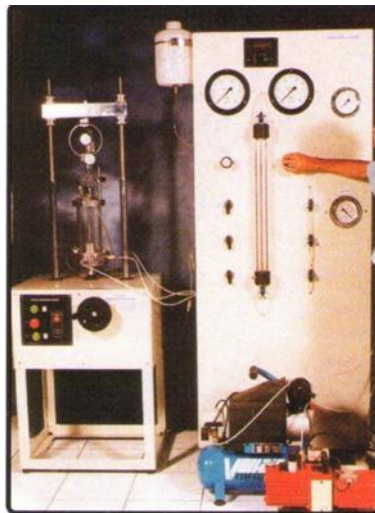


SS -525	DIRECT SHEAR TEST SET For determining shearing resistance of soil sample ASTM D-3080 / AASHTO T-236	
	Consist of :	
SS -526	Loading Machine	
	Consist of :	
SS -526.1	Frame	1pc
	Welded steel frame hand operated.	
SS -526.2	Loading Hanger	1pc
	Machine steel, galvanized, supplied without load	
SS -527	Shear Box	1set
	Cast aluminium box, 63.5 mm sample dia porous stone, loading capacity.	
SS -523	Loads	
	Slotted, machine steel, galvanized.	
	Consist of :	
SS -523.1	Load, 3167 gr weight	2pcs
SS -523.2	Load, 6334 gr weight	1pc
SS -524	Sample Tube	1set
	Machine steel, 63.5 mm dia., galvanized, with extruder.	
SG -101/1	Proving Ring, 100 kg capacity.	1pc
SG -135	Dial Indicator, Range 10mm x 0.01mm.	1pc
SG -136	Dial Indicator, Range 20mm x 0.01mm.	1pc
SG -840	Wire Saw, 10 cm length approx.	1pc



SS-650 Field Vane Shear Test Set

Detailed field investigation of undrained shear strength and sensitivity of soft and medium stiff clays From 0-30 meters by hand jack, even through hard layers of clay, sand or silt. Two vane sizes: Measurements from 0-60 kPa & 0-100 kPa. Top-level accuracy, results can be used for the design of earth fill foundations and embankments.



SS -600	TRIAXIAL TEST SET ASTM D-2850	
	Consist of :	
SS -600.1	Triaxial Compression Machine	1set
SS -600.2	Load Measuring	1set
SS -600.3	Displacement Measuring	1pc
SS -600.4	Panel Control	1set
SS -600.5	Triaxial Cells (Cell Chamber)	1set
SS -600.6	Constant Pressure	1set
SS -600.7	Compressor Unit	1set
SS -600.8	Vacuum Unit	1set
SS -600.9	O Ring Placing Tool 0 50 mm	1set
SS -600.10	O Ring Placing Tool 0 35 mm	1set
SS -600.11	Suction Membrane Device 0 50 mm	1set
SS -600.12	Suction Membrane Device 0 35 mm	1set
SS -600.13	Two Ways Split Former 0 50 mm	1pc
SS -600.14	Two Ways Split Former 0 35 mm	1pc
SS -600.15	Sample Tube 0 50 mm	1pc
SS -600.16	Sample Tube 0 35 mm	1pc
SS -600.17	Rubber Membrane 0 50 mm	10pcs
SS -600.18	Rubber Membrane 0 35 mm	10pcs
SS -600.19	Membrane Sealing Ring 0 50 mm	4pcs
SS -600.20	Membrane Sealing Ring 0 35 mm	4pcs

Aggregate Equipment



- SA-100 SAMPLE SPLITTER**
Stainless steel, chute width 1/2", 12 holes, supplied complete with scoop and pans.
- SA-101 SAMPLE SPLITTER**
Stainless steel, chute width 3/4", 12 holes, supplied complete with scoop and pans.
- SA-102 SAMPLE SPLITTER**
Stainless steel, chute width 1", 12 holes, supplied complete with scoop and pans.
- SA-103 SAMPLE SPLITTER**
Stainless steel, chute width 1-1/2", 8 holes, supplied complete with scoop and pans.
- SA-104 SAMPLE SPLITTER**
Stainless steel, chute width 2", 8 holes, supplied complete with scoop and pans.
- SA-105 SAMPLE SPLITTER**
Stainless steel, chute width 2-1/2", 8 holes, supplied complete with scoop and pans.
- SA-106 SAMPLE SPLITTER**
Stainless steel, chute width 3", 8 holes, supplied complete with scoop and pans.

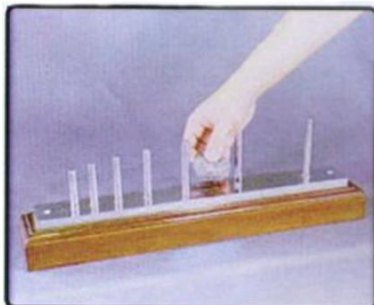
For driving dry material such as gravel and sand
Dimension (l x w x h) : 65 x 40 x 40 cm
Gross Weight : 10 kg



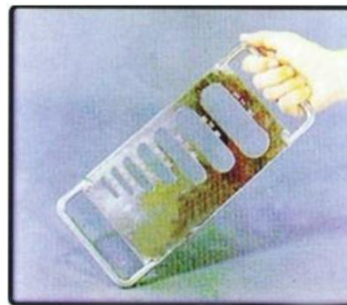
- SA-111 GILSON SAMPLE SPLITTER**
Painted plate frame, aluminium chute, variable chute width, 1/2" increment (1/2", 1", 1 1/2", 2", etc) Supplied with pans.
Dimensions (l x w x h) : 110 x 50 x 50 cm.
Gross Weight : 65 kg



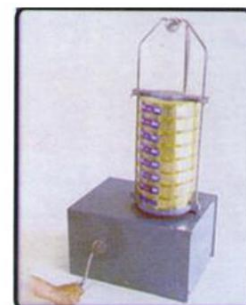
- SA-122 PRECISION SAMPLE SPLITTER**
Stainless steel, chute width 1/4" x 32 holes, supplied complete with scoop and pans.
Dimension (l x w x h) : 50 x 50 x 50 cm.
- SA-123 PRECISION SAMPLE SPLITTER**
Stainless steel, chute width 1/4" x 16 holes, supplied complete with scoop and pans.
Dimension (l x w x h) : 50 x 50 x 50 cm.
Gross Weight : 10 kg



- SA-170 LENGTH GAUGE**
For rapid measuring the length of aggregates.
BS-812
For rapid measuring the length of aggregates. Hard wood base, steel base plate, distance : 89.0, 62.86, 39.9, 28.5, 20.1, 14.2 mm.
Dimension (l x w x h) : 50 x 12 x 18 cm
Gross Weight : 5 kg



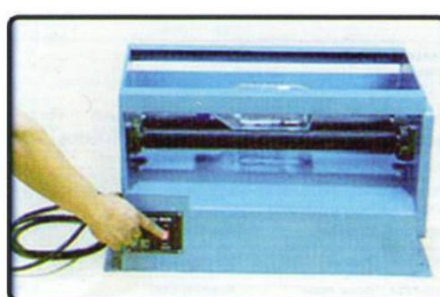
- SA-180 THICKNESS GAUGE**
For determining the flakiness index of coarse aggregate.
BS-812
For determining the flakiness index of coarse aggregate. Galvanized metal sheet, hole size 100 x 33.9, 90 x 26.3, 80 x 19.7, 60 x 14.4, 50 x 10.2, 40 x 7.2, 30 x 4.9
Dimension (l x w x h) : 30 x 20 x 5 cm
Gross Weight : 3 kg



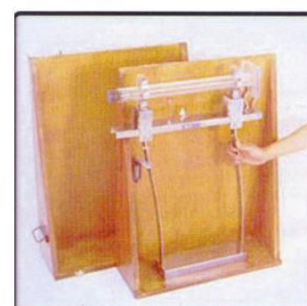
- SA-510 SIEVE SHAKER**
For wet sieving of soil, cement and fine aggregates.
Hand Operated, steel box, cast aluminium pulley, 8" sieve dia, 8 sieve capacity, supplied without sieve/ pan and cover. sieve/pan & cover.
Dimension (l x w x h) : 50 x 50 x 100 cm.
Gross Weight : 50 kg



- SA-515 SIEVE SHAKER**
For wet sieving of soil, cement and fine aggregates.
Electric, 22 V-AC, 200 Watt, steel base, cast aluminium pulley, 8" sieve dia, 8 sieve capacity, supplied without sieve/pan & cover
Dimension (l x w x h) : 50 x 50 x 100 cm.
Gross Weight : 55 kg



- SA-621 BOTTLE ROLLER**
BS-812 / ASTM C-117
Electric, 220 V, 100 watt, 50 Hz, 1 Phase, 80 RPM. Supplied complete with 1 kg capacity glass jar.
Dimension (l x w x h) : 60 x 30 x 90 cm.
Gross Weight : 20 kg



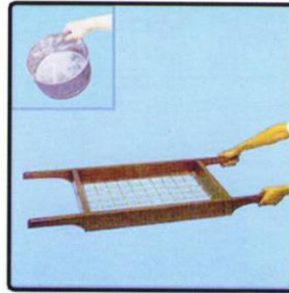
- SA-610 SAND EQUIVALENT SHAKER**
ASTM D-2419 / AASHTO T-176
To give greater uniformity action, hand operated mounting bracket with cylinder holder, two spring steel straps, built in counter, wooden case. Supplied without graduated cylinder.
Dimension (l x w x h) : 60 x 30 x 90 cm

Aggregate Equipment



For determining grain size distribution of soil particles or sand / gravel.
Brass frame 8" dia

SA -200 A	Sieve 4" Mesh 101.6 mm opening
SA -201 A	Sieve 3 1/2" Mesh 88.9 mm opening
SA -202 A	Sieve 3" Mesh 76.2 mm opening
SA -203 A	Sieve 2 1/2" Mesh 62.5 mm opening
SA -204 A	Sieve 2" Mesh 50.8 mm opening
SA -205 A	Sieve 1 3/4" Mesh 44.4 mm opening
SA -206 A	Sieve 1 1/2" Mesh 38.1 mm opening
SA -207 A	Sieve 1 1/4" Mesh 31.7 mm opening
SA -208 A	Sieve 1" Mesh 25.4 mm opening
SA -209 A	Sieve 7/8" Mesh 22.2 mm opening
SA -210 A	Sieve 3/4" Mesh 19.0 mm opening
SA -211 A	Sieve 5/8" Mesh 15.8 mm opening
SA -212 A	Sieve 1/2" Mesh 12.7 mm opening
SA -213 A	Sieve 7/16" Mesh 11.1 mm opening
SA -214 A	Sieve 3/8" Mesh 9.5 mm opening
SA -215 A	Sieve 5/16" Mesh 7.9 mm opening
SA -216 A	Sieve 1/4" Mesh 6.3 mm opening
SA -218 A	SIEVE HALUS Sieve # 4 Mesh 4.75 mm opening
SA -222 A	Sieve # 8 Mesh 2.36 mm opening
SA -223 A	Sieve # 10 Mesh 2.00 mm opening
SA -224 A	Sieve # 12 Mesh 1.70 mm opening
SA -226 A	Sieve # 16 Mesh 1.18 mm opening
SA -228 A	Sieve # 20 Mesh 0.850 mm opening
SA -230 A	Sieve # 30 Mesh 0.600 mm opening
SA -232 A	Sieve # 40 Mesh 0.425 mm opening
SA -234 A	Sieve # 50 Mesh 0.300 mm opening
SA -235 A	Sieve # 60 Mesh 0.250 mm opening
SA -236 A	Sieve # 70 Mesh 0.212 mm opening
SA -237 A	Sieve # 80 Mesh 0.180 mm opening
SA -238 A	Sieve # 100 Mesh 0.150 mm opening
SA -239 A	Sieve # 120 Mesh 0.125 mm opening
SA -240 A	Sieve # 140 Mesh 0.106 mm opening
SA -241 A	Sieve # 170 Mesh 0.090 mm opening
SA -242 A	Sieve # 200 Mesh 0.075 mm opening
SA -250	PAN & COVER Dimension (l x w x h) : 22 x 22 x 6.5 cm Gross Weight : 0.75 kg



For determining grain size distribution of soil particles or sand / gravel. Stainless steel frame 8" dia.

SA -400	Wooden Sieve 4" Mesh 101.6 mm opening
SA -401	Wooden Sieve 3 1/2" Mesh 88.9 mm opening
SA -402	Wooden Sieve 3" Mesh 76.2 mm opening
SA -403	Wooden Sieve 2 1/2" Mesh 62.5 mm opening
SA -404	Wooden Sieve 2" Mesh 50.8 mm opening
SA -405	Wooden Sieve 1 3/4" Mesh 44.4 mm opening
SA -406	Wooden Sieve 1 1/2" Mesh 38.1 mm opening
SA -407	Wooden Sieve 1 1/4" Mesh 31.7 mm opening
SA -408	Wooden Sieve 1" Mesh 25.4 mm opening
SA -409	Wooden Sieve 7/8" Mesh 22.2 mm opening
SA -410	Wooden Sieve 3/4" Mesh 19.0 mm opening
SA -411	Wooden Sieve 5/8" Mesh 15.8 mm opening
SA -412	Wooden Sieve 1/2" Mesh 12.7 mm opening
SA -413	Wooden Sieve 7/16" Mesh 11.1 mm opening
SA -414	Wooden Sieve 3/8" Mesh 9.5 mm opening
SA -415	Wooden Sieve 5/16" Mesh 7.9 mm opening
SA -416	Wooden Sieve 1/4" Mesh 6.3 mm opening
SA -418	Wooden Sieve # 4 Mesh 4.75 mm opening
SA -492	WET WASHING SIEVE # 200, 8" dia., 4" depth.
SA -493	WET WASHING SIEVE # 200, 8" dia., 8" depth. Dimension (l x w x h) : 22 x 22 x 6.5 cm Gross Weight : 0.75 kg



SA -700	LOS ANGELES ABRASSION MACHINE ASTM C-131 / AASHTO T-96 Consist of : Los Angeles Abrasion Machine 1set Frame : Welded steel frame 8 and 12 cm. [steel profile. Drum : 1/2" thick steel plate 28" inner dia. 20" inner width. Automatic Counter : Digital, module system for easy maintenance Panel button : ON-OFF-RUN-STOP ON-OFF-RUN-STOP-JOG-RESET-500-1000. Power : Electromotor, dual voltage 110-220V. 750 watt, 1 Phase, Heavy duty speed reducer. Drum Speed : 30 - 33 rpm.
SA -702	Steel Ball 12pcs Steel 1 7/8" diameter.
SA -703	Catching Pan 1pc Galvanized steel. Dimension (l x w x h) : 120 x 100 x 150 cm Gross Weight : 450 kg



SA -600 **SAND EQUIVALENT TEST SET**
For indicating relative proportion of clay like material and fine dust in granular soil or graded aggregate

SA -601	Graduated Cylinder 2pcs ASTM D-2419 Consist of : Transparent fibre glass, 1 1/4" i.d., 1 1/2" o.d 17" height, with scale.
SA -602	Stopper Assembly 1set Rubber stopper, irrigation tube, hose, syphon.
SA -603	Weight Foot Assembly 1set Machine steel, galvanized, 1000 gr weight, sand reading indicator.
SA -604	Stock Solution 1btl Calcium chloride, glycerin and formaldehyde solution. Supplied in a plastic container (1 ltr).
SA -605	Carrying Case 1pc Wooden case with handle.
SG -390	Thin Box 2pcs Aluminium 60 gr capacity.
SG -470	Funnel , Plastic, narrow mouth. 1pc Dimension (l x w x h) : 70 x 50 x 20 cm Gross Weight : 20 kg



SA -750	AGGREGATE IMPACT TEST For determining the aggregate impact value and resistance of aggregate to sudden shock or impact. BS-812 Consist of : Impact Machine 1set Heavy-duty steel construction, safety locking bar, built in counter
SA -751	Cylindrical Measure 1pc Mechanical steel, 75 mm dia, 50 mm deep.
SA -753	Tamping Rod 1pc Galvanized steel, 3/8" dia, 8" length. Dimension (l x w x h) : 50 x 30 x 90 cm Gross Weight : 80 kg

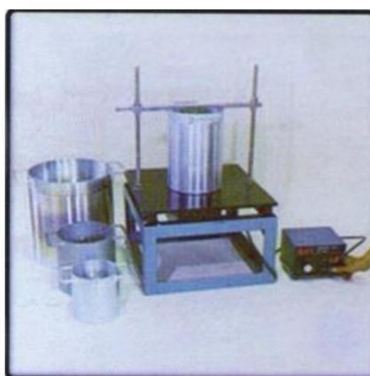
Aggregate Equipment



SA -760 AGGREGATE CRUSHING VALUE APPARATUS
For determining the crushing properties of bulk aggregate applying 400 kN load over a period of 10 minutes.

BS-812		
Consist of :		
SA -761	Cylinder	1pc
Machine steel, 154 mm dia.		
SA -762	Plunger	1pc
Machine steel.		
SA -763	Base Plate	1pc
Machine steel.		
SA -764	Metal Measure	1pc
115 mm dia., 180 mm deep.		
SA -765	Tamping Rod	1pc
Galvanized steel, 16 mm dia., 500 mm length, hemispherical at both ends.		

Dimension (l x w x h) : 30 x 30 x 55 cm
Gross Weight : 30 kg



SA -800 BULK DENSITY TEST SET
for determining bulk density of fine, coarse or mix aggregate
ASTM C-29 / AASHTO T-19

Consist of :		
SCC-410	Vibrating Table	1set
Variable speed up to 3600 rpm, separate control box, 50 x 50 cm table.		
SA -801	Container	1pc
Machined steel, galvanized, 3 ltr capacity.		
SA -802	Container	1pc
Machined steel, galvanized, 10 ltr capacity.		
SA -803	Container	1pc
Machined steel, galvanized, 15 ltr capacity.		
SA -804	Container	1pc
Machined steel, galvanized, 30 ltr capacity.		

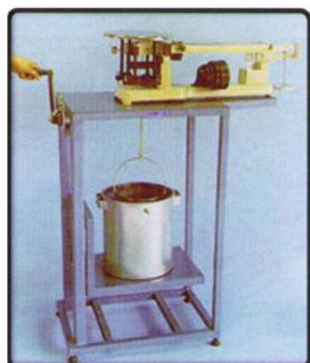
Dimension (l x w x h) : 60 x 60 x 100 cm
Gross Weight : 150 kg



SA -810 A ABSORPTION OF FINE AGGREGATE TEST SET
For determining the water absorption of fine aggregate at saturated surface dry

ASTM C-128 / AASHTO T-84		
Consist of :		
SA -811	Cone and Tamper	
Consist of :		
SA -811.1	Cone	1pc
Brass, 40 mm i.d at the top 90 mm i.d at the bottom, 75 mm height.		
SA -811.2	Tamper	1pc
Machine steel, galvanized, 340 gr weight, 25 mm dia.		
SG -363	Mixing Bowl	1pc
Stainless steel, 25 cm dia.		
SG -396	Glass Plate	1pc
10 mm thick, 30 x 30 cm.		
SG -412	Volumetric Flask	1pc
500 ml capacity.		
SG -820	Spatula	1pc
Plastic Handle.		

Dimension (l x w x h) : 40 x 40 x 30 cm
Gross Weight : 7 kg



SA -825 SPECIFIC GRAVITY & ABSORPTION OF COARSE AGGREGATE TEST SET

For determining specific gravity and water absorption of coarse aggregate

ASTM C-127 / AASHTO T-85		
Consist of :		
SCC-826	Dunagan Balance	
Consist of :		
SA -826.1	Mounting Table	1set
Welded steel table, elevated container support.		
SA -826.2	Water Container	1pc
Galvanized container, 20 ltr capacity.		
SG -157	Heavy Duty Solution Balance	1set
20 kg capacity, 1 gr sensitivity supplied complete with weights.		
SA -822	Sample Basket	1pc
# 8 mesh, 200 mm dia. 200 mm height.		

Dimension (l x w x h) : 85 x 50 x 130 cm
Gross Weight : 60 kg



SA -910 ORGANIC IMPURITIES TEST SET
For an approximate determination of organic compound in sand

ASTM C-40 / AASHTO T-21		
Consist of :		
SA -911	Glass Bottle	1pc
350 ml cap., graduated glass with stopper.		
SA -912	Stock Solution	1btl
Sodium hydroxide solution (NaOH), 1 litre.		
SA -913	Standard Colour Chart	1pc
5 standard colour.		

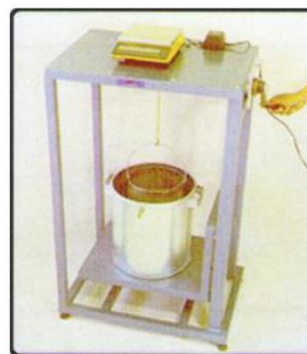
Dimension (l x w x h) : 25 x 25 x 25 cm
Gross Weight : 8 kg



SA -920 SOUNDNESS TEST SET
For determining aggregate resistance to disintegration by saturate
ASTM C-88 / AASHTO T-104

Consist of :		
SA -921	Stock Solution	1btl
Sodium sulphate solution (Na2SO4) 1 litre.		
SG -363	Mixing Bowl	1pc
Stainless steel, 24 cm dia.		
SG -424	Beaker Glass	1pc
1000 ml capacity.		
SG -600	Thermometer	1pc
Glass, 0 - 100 deg.C		

Dimension (l x w x h) : 80 x 50 x 40 cm
Gross Weight : 8 kg



SA -830 SPECIFIC GRAVITY & ABSORPTION OF COARSE AGGREGATE TEST SET

For determining specific gravity and water absorption of coarse aggregate

ASTM C-127 / AASHTO T-85		
Consist of :		
SA -831	Dunagan Balance	
Consist of :		
SA -831.1	Mounting Table	1pc
Welded steel table, elevated container support.		
SA -831.2	Water Container	1pc
Galvanized container, 20 ltr capacity.		
SG -161	Balance	1pc
Digital balance, 220 V, 6100 gr x 0.1 gr capacity.		
SA -822	Sample Basket	1pc
# 8 mesh, 200 mm dia. 200 mm height.		

Dimension (l x w x h) : 85 x 50 x 130 cm
Gross Weight : 60 kg

Cement Equipment



SE -100 AIR PERMEABILITY OF PORTLAND CEMENT BY FINENESS DEVICE

For determining fineness of portland cement by air permeability
ASTM C-204 / AASHTO T-153

Consist of :		
SE -101	Stand	1pc
	Polished wood	
SE -102	U-Tube Manometer	1pc
	Glass tubing with valve.	
SE -103	Permeability Cell	1pc
	Stainless steel.	
SE -104	Perforated Disc	1pc
	Non corroding metal.	
SE -105	Plunger	1pc
	Stainless steel.	
SE -107	Stock Solution	0.3ltr
	Dibutylphtalate.	
SE -108	Filter Paper	1box
	Type 1, grade B.	
SG -473	Funnel	1pc
	Glass.	

Dimension (l x w x h) :30 x 25 x 70 cm
Gross Weight :10 kg



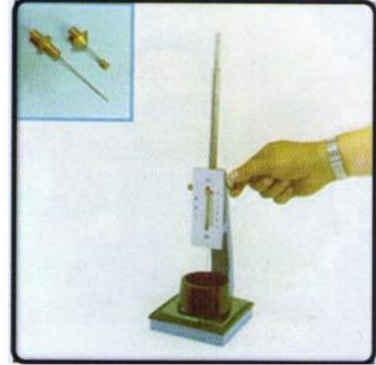
SE -110 SPECIFIC GRAVITY OF HYDRAULIC CEMENT TEST

For determining specific gravity of hydraulic cement
ASTM C-188 / AASHTO T-133

Consist of :

SE -111	Le Chatelier Flask	1pc
	250 ml cap., the neck graduated 0-1 ml and 15-24 ml.	
SE -112	Kerosene	1ltr
	Deaired kerosene.	
SG -473	Funnel	1pc
	Glass, narrow mouth.	
SG -521	Wash Bottle	1pc
	Plastic, 250 ml capacity.	
SG -530	Pipette	1pc
	Glass, 5 ml capacity.	
SG -600	Thermometer	1pc
	Glass, 0 - 50 deg.C	
SG -820	Spatula	1pc
	150 mm blade length.	
SG -922	Soft Brush	1pc
	Round type.	

Dimension (l x w x h) :20 x 20 x 30 cm
Gross Weight : 8 kg



SE -120 TIME OF SETTING OF HYDRAULIC CEMENT BY VICAT NEEDLE

For determining normal consistency and time of setting of hydraulic cement

ASTM C-187/C-191; T-129/T-131

Consist of :

SE -121	Vicat Apparatus	1pc
	Cast aluminium frame stainless steel rod. 0 - 50 mm scale.	
SE -123	Initial needle	1pc
	Steel needle, 1 mm dia, with footing, brass thread.	
SE -124	Final needle	1pc
	Steel needle, 1 mm dia, brass thread.	
SE -125	Conical Ring Mold	1pc
	70 mm base dia, 60 mm top dia, 40 mm height.	
SE -126	Glass plate	1pc
	10 mm thick, 12 x 12 cm.	

Dimension (l x w x h) :60 x 30 x 30 cm
Gross Weight : 8 kg



SE-160 COMPRESSIVE STRENGTH OF HYDRAULIC CEMENT MORTAR

For determining compressive strength of hydraulic cement mortar by using 2" cube specimen

ASTM C-109 / AASHTO T-106		
Consist of :		
SE -161	Cement Cube Mold	1pc
	Cast iron, 3 gang, 2" x 2" x 2"	
SE -162	Flow Table , Hand operated.	
Consist of :		
SE -162.1	Frame	1pc
	Welded steel, 10" dia., 1/2" drop, brass table.	
SE -162.2	Flow Mold	1pc
	Brass, base 101.6 mm dia top 69.85 mm dia., height 50.8 mm.	
SG -713	Vernier Caliper	1pc
	300 mm capacity.	
SE -168	Tamper	1pc
	Plastic, 1/2" x 1" face.	
SG -396	Glass Plate	1pc
	10 mm thick, 30 x 30 cm.	
SG -403	Graduated Cylinder	1pc
	250 ml capacity.	
SG -825	Scraper	1pc
	Plastic handle.	

Dimention l x w x h) :60 x 60 x 60 mm
Gross Weight : 50 kg

SE-170 COMPRESSION MACHINE

ASTM C-109

1set

SE-175 COMPRESSION MACHINE

ASTM C-109

1set

Mesin Uji TEKAN Hydraulic hand pump, kapasitas 250 kN, 12" diameter Force Gauge (terkalibrasi JNK), berfungsi untuk mengetahui kekuatan tekan kubus mortar semen dengan ukuran 2" x 2" x 2" atau sample silinder berdiameter 2" x 4" tinggi. Dimensi alat 50 x

Dimention l x w x h) : 50 x 50 x 80 mm
Gross Weight : 150 kg

SE -160 A COMPRESSIVE STRENGTH OF HYDRAULIC CEMENT MORTAR

For determining compressive strength of hydraulic cement mortar by using 2" cube mold

ASTM C-109 / AASHTO T-106

Consist of :

SE -161 A	Cement Cube Mold	1pc
	Cast iron, 3 gang, 2" x 2" x 2"	
SE -162 A	Flow Table	
	Electric, 100 rpm, 220 volt, 1 ph, 100 watt.	
Consist of :		
SE -162A.1	Frame	1pc
	Welded frame, brass table 10" dia., 1/2" drop.	
SE -162A.2	Flow Mold	1pc
	Brass, base 101.6 mm dia top 69.85 mm dia, height 50.8 mm.	
SE -168	Tamper	1pc
	Plastic, 1/2" x 1" face.	
SG -713	Vernier Caliper	1pc
	300 mm capacity.	
SG -396	Glass Plate	1pc
	10 mm thick, 30 x 30 cm.	
SG -403	Graduated cylinder	1pc
	250 ml capacity.	
SG -825	Scraper	1pc
	Plastic handle.	

Dimension l x w x h) :60 x 60 x 60 mm
Gross Weight : 50 kg

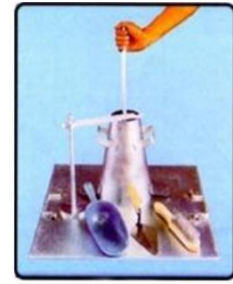
Concrete Equipment



SC-321.3	COMPRESSION MACHINE
For determining compressive strength of concrete cube 15 x 15 x15 cm or concrete cylinder 15 cm dia. x 30 cm height	
ASTM C-39	
Frame :	Heavy-duty welded steel construction 30 cm profile steel columns 10 cm thick bottom and upper and upper plate
Hydraulic System For 1500 kN Cap	Cast iron cylinder,Hard-chromed piston, 230 mm diameter Maximum working pressure 50.000 kPa Overall dimension 300 mm dia. x 320 mm height Single action, gravity return
Hydraulic System For 2000 kN Cap	Cast iron cylinder,Hard-chromed piston, 230 mm diameter Maximum working pressure 50.000 kPa Overall dimension 280 mm dia. x 320 mm height Single action, gravity return
Hydraulic System For 3000 kN Cap	Cast iron cylinder,Hard-chromed piston, 250 mm diameter Maximum working pressure 50.000 kPa Overall dimension 330 mm dia. x 320 mm height Single action, gravity return
Hydraulic Pump	Hand operated, single action 6.000 ml reservoir capacity. Maximum working pressure 50.000 kPa Single action, gravity return
Force Gauge	Bourdon tube manometer, 280 mm dial diameter With maximum load pointer. Steel box housing. Calibrated by JNK
Compressive Platen	Upper : 180 x 180 mm, ball seating Lower : 250 mm diameter
Clearance	Horizontal: 290 mm Vertikal : 310 mm
Dimension (l x w x h) : 660 x 600 x 1400 mm	
Gross Weight : 500 kg	



SC-325.3	COMPRESSION MACHINE
For determining compressive strength of concrete cube 15 x 15 x15 cm or concrete cylinder 15 cm dia. x 30 cm height	
ASTM C-39	
Frame :	Heavy-duty welded steel construction 30 cm profile steel columns 10 cm thick bottom and upper and upper plate
Hydraulic System For 1500 kN Cap	Cast iron cylinder,Hard-chromed piston, 230 mm diameter Maximum working pressure 50.000 kPa Overall dimension 300 mm dia. x 320 mm height Single action, gravity return
Hydraulic System For 2000 kN Cap	Cast iron cylinder,Hard-chromed piston, 230 mm diameter Maximum working pressure 50.000 kPa Overall dimension 280 mm dia. x 320 mm height Single action, gravity return
Hydraulic System For 3000 kN Cap	Cast iron cylinder,Hard-chromed piston, 250 mm diameter Maximum working pressure 50.000 kPa Overall dimension 330 mm dia. x 320 mm height Single action, gravity return
Hydraulic Pump	Electric, 220 V AC, 50-60 HZ, 1000 Watt, 1 PhaseSingle action, variable speed 6.000 ml reservoir capacity Maximum working pressure 50.000 kPa Single action, gravity return
Force Gauge	Bourdon tube manometer, 280 mm dial diameter With maximum load pointer. Steel box housing. Calibrated by JNK
Compressive Platen	Upper : 180 x 180 mm, ball seating Lower : 250 mm diameter
Clearance	Horizontal: 290 mm Vertikal : 310 mm
Dimension (l x w x h) : 660 x 600 x 1400 mm	
Gross Weight : 500 kg	



SC -370	SLUMP TEST SET
For determining slump/workability of concrete both in the laboratory and in the field.	
ASTM C-143 / AASHTO T-119	
Consist of :	
SC -371	Slump Cone 1pc Heavy gauge sheet steel, 4" top dia, 8" bottom dia, 12" height.
SC -372	Inspection Scale 1pc Machine steel, 0-10 cm slump measurement, 1 cm increment.
SC -375	Base Plate 1pc Steel sheet, carrying handle, 600 x 600 x 5 mm.
SG -801	Scoop 1pc Cast aluminium.
SG -871	Trowel 1pc Pointed type.
SG -920	Brush 1pc Steel wire.
SG -930	Tamping Rod 1pc Machine steel, galvanized 16 mm dia, 600 mm length.
Dimension (l x w x h) : 70 x 70 x 50 cm	
Gross Weight : 30 kg	



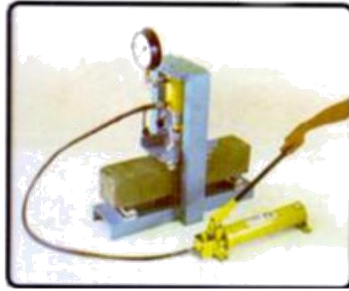
SC -380	VEBE TIME
BS-1881	
Alat ini digunakan untuk mengukur workability dan consistency dari Stiff Concrete.	
Consist of :	
SC -381	Vibro Consistometer 1set Electric, 220 V, 50 Hz, 1 Phase, 200 watt.
SG -700	Stop Watch 1pc 60 sec. sweep x 30 min.
SG -801	Scoop 1pc Cast aluminium.
SG -930	Tamping rod 1pc Machine steel, galvanized 16 mm dia, 600 mm length.
Dimention (l x w x h) : 40 x 40 x 100 cm	
Gross Weight : 25kg	

SC -400	AIR CONTENT OF FRESH MIXED CONCRETE
For determining the air content of freshly mixed concrete from observation of the change in volume of concrete with a change in pressure	
ASTM C-231 / AASHTO T-152	
Consist of :	
SC -401	Air Entrainment Meter 1pc 5 ltrs capacity. 2" maximum aggregate size, direct reading 0 - 10% manometer, hand pump.
SC -402	Carrying Case 1pc Wooden Box.
SG -801	Scoop 1pc Cast aluminium.
SG -871	Trowel 1pc Pointed type.
SG -891	Straight edge 1pc 40 cm length.
SG -900	Rubber Mallet 1pc Rubber head, wooden handle.
SG -920	Brush 1pc Steel wire.
SG -930	Tamping Rod 1pc Machine Steel, galvanized 16 mm dia, 600 mm length.
Dimension (l x w x h) : 40 x 40 x 100 cm	
Gross Weight : 20 kg	



SC -470	VERTICAL CYLINDER CAPPING SET
Equipment for forming caps on ends of 15 cm diameter concrete cylinder to provide uniform loading surface for compression test	
ASTM C-617	
Consist of :	
SC -471	Vertical Cylinder Capper 1pc Cast aluminium frame, rotating ground table, for 150 mm dia concrete cylinder.
SC -472	Capping Compound Warmer 1pc Approx 3 ltr cap., heating temperature up to 200 C, 220 V-AC.
SC -473	Capping Ladle 1pc Stainless steel ladle, Wooden handle
SC -474	Cylinder Carrier 1pc Double handle, snap clamp, for 150 mm dia, concrete cylinder.
SC -475	Capping Compound 25Kgs Powder, approx 115 C Pouring
Dimension (l x w x h) : 100 x 60 x 60 cm	
Gross Weight : 35 kg	

Concrete Equipment



SC-330 HYDRAULIC CONCRETE BEAM TESTING MACHINE
ASTM C-78

For determining the flexural strength of concrete beam by using a Simple beam with third point loading. 100 kN cap., hydraulic hand pump, manometer reading, sample size 15 x 15 60 cm, welded steel construction

Dimension (l x w x h) : 100 x 50 x 100 cm
Gross Weight : 110kg



SC-351 MECHANICAL CONCRETE BEAM TESTING MACHINE
ASTM C-78

For determining the flexural strength of concrete beam by using a simple beam with third point loading 50 Kn cap., mechanical jack, proving ring, sample size 15 x 15 x 60 cm, welded steel construction

Dimension (l x w x h) : 100 x 40 x 100 cm
Gross weight : 110kg



SC-355 COMPACTING FACTOR APPARATUS
BS-1881

For determining workability of compacting factor concrete of low, medium and high workability. Welded steel frame construction, two conical mold, one cylinder mold.

Dimension (l x w x h) : 30 x 60 x 130 cm.
Gross weight : 75kg



CONCRETE CYLINDER MOLD
Cast iron, for forming concrete cylinder sample

SC-300 CONCRETE CYLINDER MOLD
10 cm dia x 20 cm height.

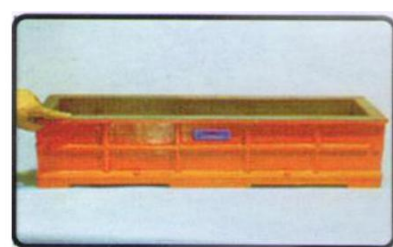
SC-301 CONCRETE CYLINDER MOLD
15 cm dia x 30 cm height.
Dimension (l x w x h) : 15 x 15 x 25 cm / 20 x 20 x 35 cm
Gross Weight : 12kg / 17kg



CONCRETE CUBE MOLD
Cast iron, for forming concrete cube sample

SC-311 CONCRETE CUBE MOLD
10 x 10 x 10 cm.

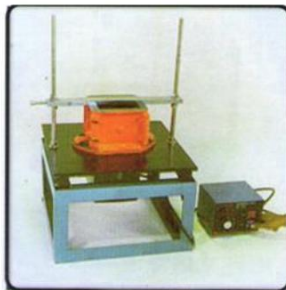
SC-312 CONCRETE CUBE MOLD
15 x 15 x 15 cm.
Dimension (l x w x h) : 20 x 20 x 15 cm / 25 x 25 x 20 cm
Gross Weight : 14kg / 19kg



CONCRETE BEAM MOLD
Cast iron, for forming concrete beam sample

SC-317 A CONCRETE BEAM MOLD
15 x 15 x 60 cm.

SC-319 A CONCRETE BEAM MOLD
20 x 20 x 80 cm.
Dimension (l x w x h) : 20 x 70 x 20 cm / 25 x 90 x 25 cm
Gross Weight : 40kg / 60kg



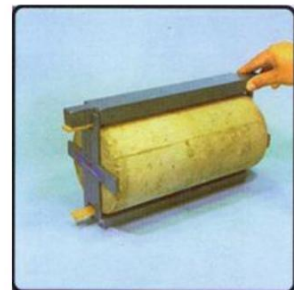
SC-410 VIBRATING TABLE
Steel construction 50 x 50 cm table separate control box, variable speed up to 3.600 rpm. For compacting aggregate in steel container or concrete sample in cube/ cylinder mold. Dimension (l x w x h) : 55 x 55 x 85 cm.

Gross weight : 70kg



SC-500 MODULUS OF ELASTICITY IN CONCRETE TEST SET
For measuring average axial deformation of concrete cylinder sample during compression test, cast aluminium, dial indicator 0.001 x 5 mm. Dimension (l x w x h) = 30 x 30 x 35 cm.

Gross weight : 5kg



SC-525 SPLIT TENSILE TEST
BS-1881
For split cylinder test on specimens of 150 x 300 mm (diameter x length) self-supporting lower platen. Dimension (l x w x h) : 35 x 20 x 25 cm.

Gross weight : 4kg



SC-550 CONCRETE TEST HAMMER
ASTM C-805
For rapid quality control of concrete work, with built in pointer scale and graph for various angle. Dimension (l x w x h) : 15 x 15 x 40 cm.

Gross weight : 2kg



SC-555 CALIBRATION ANVIL
ASTM C-805
For periodic calibration of concrete test hammer CO-550, complete with hammer guide. Dimension (l x w x h) : 20 x 20 x 30 cm.

Gross weight : 30kg



SC-610 LABORATORY CONCRETE MIXER
For mixing trial batches of concrete for mix design, Approx 70 ltr capacity, 4 mixing blades, welded steel frame, 2 wheels for easy movement, electromotor 1/3 HP, 220 V-AC, 1 Phase. Dimension (l x w x h) = 20 x 20 x 30 cm.

Gross weight : 30kg

Asphalt Equipment



SI -100 SPECIFIC GRAVITY OF SEMI - SOLID BITUMINOUS MATERIALS

For determining the specific gravity of semi-solid bituminous materials, asphalt, cement, and soft tar pitches by use of a picnometer

	ASTM D-70 / AASHTO T-228	
	Consist of :	
SI -101	Picnometer Hubbart type, 24 ml capacity.	1pc
SI -102	Picnometer Hubbart type, 25 ml capacity.	1pc
SG -641	Thermometer ASTM 12 C, 20 to 102 deg.C	1pc
Dimension (l x w x h) : 20 x 20 x 20 cm		
Gross Weight : 3 kg		



SI -110 DISTILLATION OF CUTBACK ASPHALTS

For measuring the amount of the more volatile constituents in cut back asphaltic product.

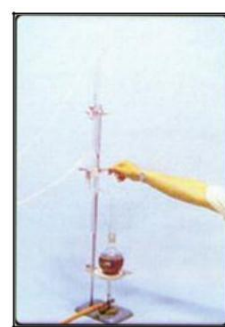
ASTM D-402 / AASHTO T-78

Consist of :

SI -111	Flask Heat resistance glass 500 ml capacity, with side arm.	1set
SI -112	Condenser Glass, jacketed.	1set
SI -113	Adapter Heat resistance glass.	1set
SI -114	Shield Metal, asbestos lined, glass window.	1set
SI -115	Shield and Flask Support Variable height adjustment.	1set
SI -116	Support and Clamp Metal, provided with clamps.	1set
SG -230	Bunsen Burner Heat resource.	1pc
SG -237	Asbestos Wire Gauze 15 cm x 15 cm.	1pc
SG -402	Graduated Cylinder 100 ml capacity.	1pc
SG -649.1	Thermometer ASTM 7 C, 2 to 300 deg.C	1pc

Dimension (l x w x h) : 20 x 20 x 20 cm

Gross Weight : 3 kg



SI -120 WATER CONTENT IN PETROLEUM PRODUCTS

For determining water in crude petroleum, tars and product derived from these materials

ASTM D-95 / AASHTO T-55

	Consist of :	
SI -121	Flask Heat resistance glass, 500 ml capacity.	1pc
SI -122	Water Trap Glass for receiving distilled water	1pc
SI -123	Condenser Glass, jacketed.	1pc
SI -124	Support Assembly For holding apparatus assembly.	1set
SI -125	Flask Support Variable height adjustment.	1pc
SG -230	Bunsen Burner Heat resource.	1pc
SG -237	Asbestos Wire Gauze 15 cm x 15 cm.	1pc
Dimension (l x w x h) : 25 x 25 x 60 cm		
Gross Weight : 10 kg		

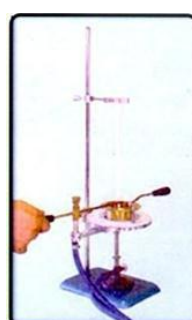


SI-150A SAYBOLT VISCOSIMETER

For determining saybolt of petroleum products at specified temperature between 21.1 and 98.8 C

ASTM D-402 / AASHTO T-78

	Consist of :	
SI -151	Viscosimeter Stainless steel bath, motor stirrer, 220 V-AC, Thermostat control panel, 2 tubes capacity.	1set
SI -154	Viscosimeter Tube Brass, seamless, provided with tips and tip wrench.	2pcs
SI -155	Tube Wrench T-wrench.	1pc
SI -156	Pipet Brass with rubber bulb.	1pc
SI -157	Thermometer Support Aluminum plate.	2pcs
SI -158	Flask 60 ml capacity.	2pcs
SI -159	Funnel Brass, 60 angle.	1pc
SG -644.1	Thermometer ASTM 17 C, 19 to 27 deg.C	2pcs
SG -644.2	Thermometer ASTM 18 C, 34 to 42 deg.C	2pcs
SG -644.3	Thermometer ASTM 19 C, 49 to 57 deg.C	2pcs
SG -644.4	Thermometer ASTM 20 C, 57 to 65 deg.C	2pcs
SG -644.5	Thermometer ASTM 21 C, 79 to 87 deg.C	2pcs
SG -644.6	Thermometer ASTM 22 C, 95 to 103 deg.C	2pcs
Dimension (l x w x h) : 70 x 70 x 70 cm		
Gross Weight : 25 kg		



SI -200 FLASH AND FIRE POINT BY CLEVELAND OPEN CUP

For determining flash and fire point by Cleveland open cup for petroleum product and other liquids, except fuel oils and materials having an open flash point below 790 C (1473F) as determined by the Cleveland Open cup tester.

ASTM D-92 / AASHTO T-48

Consist of :

SI -201	Flash Cup Brass, insulation handle	1pc
SI -202	Cleveland Gas Consist of :	
SI -202.1	Burning Pipe Brass pipe, insulation handle.	1pc
SI -202.2	Flash Cup Plate Steel Plate.	1pc
SI -202.3	Support Adjustable height metal, thermometer holder.	1pc
SI -203	Y-Connector Brass, provided with gas hose.	1set
SG -230	Bunsen Burner Heat resources.	1pc
SG -648	Thermometer ASTM 11 C, 6 to 400 deg.C	1pc

Dimension (l x w x h) : 150 x 30 x 30 cm

Gross weight: 10kg



SI-200 A FLASH AND FIRE POINT BY CLEVELAND OPEN CUP

For determining flash and fire point by Cleveland open cup for petroleum product and other liquids, except fuel oils and materials having an open flash point below 790 C (1473F) as determined by the Cleveland Open cup tester.

ASTM D-92 / AASHTO T-48

Consist of :

SI -201	Flash Cup Brass, insulation handle.	1pc
SI -202 A	Cleveland Electric Electric, 220 V-AC, heating speed control.	1set
SG -648	Thermometer ASTM 11 C, 6 to 400 deg.C	1pc

Dimension (l x w x h) : 100 x 50 x 50 cm

Gross Weight : 20 kg

Asphalt Equipment



SI -210 SOFTENING POINT TEST SET
For determining softening point of asphalt and tar using the ring and ball method

ASTM D-36 / AASHTO T-53

Consist of :		
SI -211	Shouldered Ring Assembly	1set
	Machine brass, height adjustment.	
SI -212	Standard Ball	2pcs
	Steel ball.	
SI -213	Flash Support	1set
	Mesh wire gauze variable height adjustment.	
SI -214	Support Assembly	1set
	Metal, provided with thermometer holder.	
SG -230	Bunsen Burner	1pc
	Heat resources.	
SG -237	Asbestos Wire Gauze	1pc
	15 cm x 15 cm.	
SG -424	Beaker Glass	1pc
	100 ml capacity.	
SG -646.1	Thermometer	1pc
	ASTM 15 C, 2 to 80 deg.C	

Dimension (l x w x h) : 90 x 30 x 30 cm

Gross Weight : 10 kg



SI -220 LOSS ON HEATING / THIN-FILM TEST
For determining the loss in mass (exclusive of water) of asphaltic compound after heating.

ASTM D-6/D-1754
AAHSTO T-47/T-179

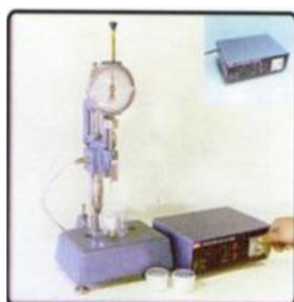
Consist of :		
SI -221	Revolving Shelf Oven	1set
	Variable temperature oven, cast aluminium rotating shelf, 5-6 rpm, external electromotor drive, 220 V-AC, 1400 W.	
SG -390	Thin Box	12pcs
	55 mm i.d. approx, aluminium sheet, seamless.	
SG -643	Thermometer	1pc
	ASTM 13 C, 155 to 170 deg.C	
Dimension (l x w x h) : 100 x 100 x 100 cm		
Gross Weight : 45 kg		



SI -230 LABORATORY PENETRATION TEST SET
For determining consistency of bituminous materials

ASTM D-5 / AASHTO T-49

Consist of :		
SI -231	Penetrometer	1set
	Cast aluminium frame, 4 1/2" dial indicator, 400 x 0.1 mm dial, single knob control, weight of needle and flunger : 50 gr.	
SI -232	Penetration Needle	2pcs
	Steel needle with brass shank, 1 mm dia.	
SI -233	Transfer Dish	1pc
	Glass, 100 mm i.d approx.	
SG -390	Thin Box, 55 mm i.d approx,	2pcs
	aluminium sheet, seamless.	
Dimension (l x w x h): 50 x 50 x 70 cm		
Gross weight: 20kg		



SI -230 A LABORATORY PENETRATION TEST SET
For determining consistency of bituminous materials

ASTM D-5 / AASHTO T-49

Consist of :		
SI -231 A	Penetrometer	1set
	Electric control box, 220 V-AC variable timer, ON-OFF and START switch for automatic plunger release cast aluminium frame, 4 1/2" dial indicator, 400 x 0.1 mm dial, knob control : manual + electric, weight of needle and flunger : 50 gr.	
SI -232	Penetration Needle	2pcs
	Steel needle with brass shank, 1 mm dia.	
SI -233	Transfer Dish	1pc
	Glass, 100 mm i.d approx.	
SG -390	Thin Box	2pcs
	55 mm i.d approx, aluminium sheet, seamless.	
Dimension (l x w x h) : 50 x 50 x 70 cm		
Gross weight : 25kg		



SI -250 DUCTILITY OF BITUMINOUS MATERIALS TEST SET

For determining ductility of formed asphalt / cement or semi solid bitumen by measuring distance of elongation before breaking point when to end of briquette are pulled a part at a specific speed and temperature

ASTM D-113 / AASHTO T-51

Consist of :		
SI -251	Ductility Mold	1set
	Form sample shape and hold end during test, made of brass, provided with base.	
SI -253	Ductility Machine	1set
	Electric 220 V-AC, stainless steel bath, provided with temperature control.	
	Pulling speed : 5 cm/min	
	Travel range : 150 cm.	
Dimension (l x w x h) : 244 x 80 x 80 cm		
Gross Weight : 150 kg		



SI -300 CENTRIFUGE EXTRACTOR TEST SET
For determining bitument concret in hot mixed paving mixture and pavement sample.

ASTM D-2172 / AASHTO T-164

Consist of :		
SI -301	Centrifuge Extractor	1set
	Hand operated, aluminium housing removeable cover and bowl, 1500 gr capacity.	
SI -303	Filter Paper	1box
	Low ash filter paper.	
Dimension (l x w x h) : 50 x 40 x 60 cm		
Gross weight : 40kg		

Asphalt Equipment

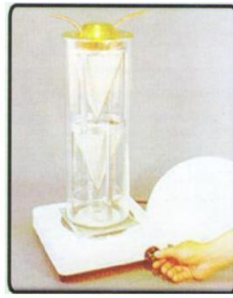


SI -300 A CENTRIFUGE EXTRACTOR TEST SET

For determining bitumen content in hot mixed paving mixture and pavement sample

ASTM D-2172 / AASHTO T-164

Consist of :	
SI -305	Centrifuge Extractor 1set
Electric, 220 V-AC, variable speed DC motor up to 3600 rpm, aluminium housing, removeable cover and bowl, 1500 gram capacity.	
SI -303	Filter Paper 1box
Low ash filter paper.	
Dimension (l x w x h)	: 50 x 40 x 60 cm
Gross weight	: 40kg



SI -310 REFLUX EXTRACTOR TEST SET

for determining bitumen content in hot mixed paving mixtures and pavement samples

ASTM D-2172 / AASHTO T-164

Consist of :	
SI -311	Reflux Extractor
Consist of :	
SI -311.1	Glass Jar 1pc
Pyrex, 6" i.d approx.	
SI -311.2	Funnel 1pc
Two wire mesh screen cone.	
SI -311.3	Condensor 1pc
Brass / copper	
SI -312	Hot Plate 1set
220 V-AC, 1000/1500 watt.	
SI -313	Filter Paper 1box
Low ash filter paper.	
SG -237	Asbestos Wire Gauze, 1pc
15 cm x 15 cm.	
Dimension (l x w x h)	: 90 x 50 x 50 cm
Gross weight	: 15 kg



SI -320 MARSHALL TEST SET

For measuring the resistance to plastic flow of cylinder specimen of bituminous paving mixture loaded on the lateral surface by means of the marshall apparatus

ASTM D-1559 / AASHTO T-245

Consist of :	
SI -321	Compression Machine 1set
Steel frame electric, 220 V-AC, 1/2 HP 1 Phase, speed : 2" per-minute.	
SI -322	Compaction Mold 1set
Machine steel, plated, 4" dia., 3" height, with collar and base plate.	
SI -323	Stability Mold 1set
Cast aluminium, split type 4" i.d., 4" wide.	
SI -324	Compaction Hammer 1set
Machine steel, plated 10 lbs, hammer weight, 18" drop height.	
SI -326	Compaction Pedestal 1pc
Wooden base with steel platen.	
SI -327	Compaction Mold Holder 1set
Machine steel, quick clamping system	
SI -328	Extruder 1set
Steel frame, hydraulic system.	
SI -329	Flow Meter 1set
Cast aluminium, clamping bolt, with dial indicator 30 x 0.01 mm.	
SG -200	Water Bath 1set
Stainless steel, water heater, 220 V-AC thermostat 30 - 85 deg.C	
SG -101/6	Proving Ring 1set
6000 lbs capacity.	
Dimension (l x w x h	67 x 50 x 100 cm
Gross weight	200 kg



SI -400 CORE DRILLING TEST SET

For cutting core samples from asphalt, concrete and other material on the road, run ways and structures.

Consist of :	
SI -401	Core Drilling Machine 1set
Cast aluminium frame, gasoline engine 5 HP, 4 cyle vertical drilling position : rubber caster, up to 4" dia. bit.	
SI -406	Diamond Bit 1pc
4" inner dia.	
SI -407	Sample Tong 1pc
4" dia.	
SI -408	Breaking Strip 1pc
Galvanized steel.	
SI -409	Spanner 2pcs
Steel, 42 mm and 32 mm.	
Dimension (l x w x h)	: 97 x 57 x 150 cm
Gross weight	: 145kg



SI -450 BENKLEMAN BEAM

For measuring the deflection of flexible pavement under the action of moving wheel loads.

Consist of :	
SI -451	Fixed Beam 1set
Aluminium profile frame, 3 points adjuster, with vibrator and dial holder. Aluminium strip arm, 1 : 2 level ratio.	
SI -455	Tire Gauge 1pc
120 psi capacity.	
SI -456	Surface Thermometer 1pc
Range 0 - 100 deg.C	
SG -137	Dial Indicator 1pc
Range 30 x 0.01 mm.	
Gross weight	: 45kg
Dimension (l x w x h)	: 244 x 50 x 50 cm



SI-470 MOT STRAIGHT EDGE

For measuring the irregularity of road surface both asphalt and concrete pavement

Consist of :	
SI-471	Mot Straight 1pc
Aluminium profile, 3 meter length, with handle.	
SI-472	Metric Wedges 1pc
Variable measurement from 2.5 - 7.5 cm, machine cast aluminium	
Dimension (l x w x h)	: 350 x 30 x 30 cm
Gross weight	: 20kg

Mining Equipment



ROTARY SAMPLE DIVIDER 120 L/60L/30L

Electromotor, 1 phases 0.5 Hp/0.37 KW, 110-220 VAC, 50Hz 4 Pole, Capacity : 8 kg / 15 kg / 50 kg Trun Table : 60 rpm, 8 Pcs Sample Segments Of Stainless With Electronic Vibrator Controller



ROTAP SIEVE SHAKER

Electromotor, 1 phases 0.5 Hp/0.75 KW, 110-220 VAC, 50 Hz 4 Pole Motion : 246 rpm, 65 taps/min, Capacity 6 sieves and pan & cover 8" dia. Dimension : 105 x 45 x 90 cm



JAW CRUSHER 6.5 x 8"

Power Source : Electromotor, 3 Phases 5.5 Hp / 4 KW 220-380 V, 50 Hz 4 Pole, Jaw Face : Two Pieces Made Of Hardened Iron Steel Capacity Max 3000 Kg / Hour Rotate : 450 Rpm



JAW RETSCH

1-Phase Motor / 3 Phase Motor, 0,75 KW, w x h x d closed 320 x 960 x 800 mm, Ip54, Jaw Width 60 x 60 mm, Gap Width Setting 0-20mm



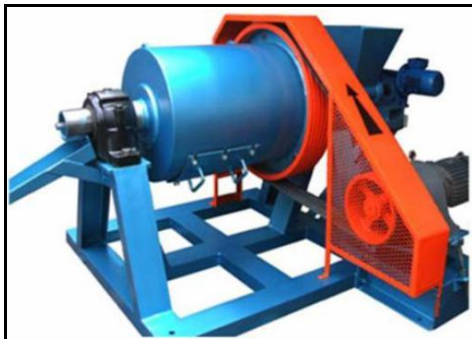
LABORATORY PULVERIZER

Electromotor, 3 phases 3 Hp/4 KW, 220-380 VAC, 50Hz 4 Pole vertical, Manganese steel grinding head, complete With mill mate. Dimension : 100 x 60 x 130 cm



RAYMOND MILL

Electromotor, 3 phases 2 Hp/1.5 KW, 220-380 VAC, 50 Hz-2 Pole, 8 Pieces Special Steel Grade Hammer Mill. Mill Rotate : 7000 rpm, Capacity : 4 ltr Dimension : 106 x 48 x 68 cm



BALL MILL

Capacity based on 50% ball charge and mills lined with 1 - 1/2 thick block upto and including 6 - 0" mill have 2" thick lining



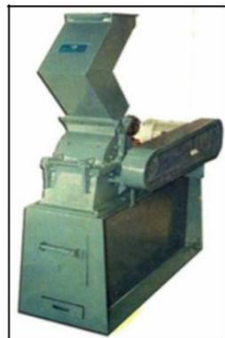
CORE CUTTING MACHINE

Electromotor 3 phases 2 Hp/1.5KW, 220-380 VAC, 50 Hz - 2 Pole 14" dia saw blade 1" bore completed foot pedal and Controller. Dimension : 90 x 40 x 120 cm



DOUBLE ROLL CRUSHER 20" x 12"

Power Source Geared Motor, 3 Phase 5Hp/3.7 KW 220 - 380V, 50 Hz Pole, Output : 100 Rpm, Roll 20" dia, 12" Length Chissoe Roll : 10"



HAMMER MILL

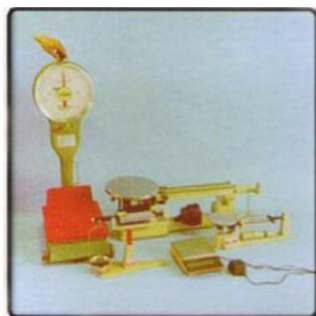
Electromotor 3 phases 3 Hp/2.2 KW, 220-380 VAC. 50 Hz 4 Pole, Two Pieces, Hardened Special Steel Hammer Blade, Screen 6 mm Perforation, Zig-Zag Feeder, Dust Collection bin Complete. Dimension : 122 x 51 x 155 cm



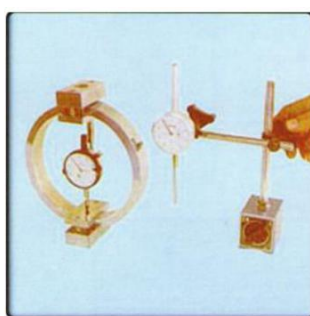
JAW CRUSHER 5" X 8"

Electromotor, 3 phases 5.5 Hp/4 KW, 220-380 VAC, 50 Hz 4 Pole, Jaw Face : Two pieces, hardened steel, Capacity : Max 1000 kg/hour. Dimension : 70 x 60 x 120 cm

General Equipment



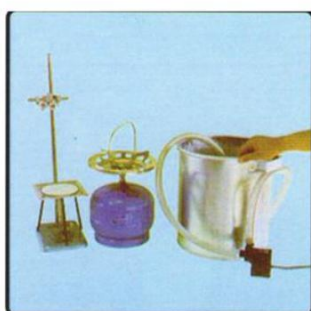
- SG -150 Cent O-Gram Balance**
311 gr capacity 0.01 sensitivity.
- SG -151 Cent O-Gram Balance**
311 gr capacity 0.01 sensitivity with dial type adjustment
- Triple Beam Balance**
- SG-152 Triple Beam Balance** 2.610 gr capacity 0.1 sensitivity
Supplied complete with weights
- SG-153 Dial O-Gram Balance** 2.610 gr capacity 0.1 sensitivity
with dial type adjustment
Supplied complete with weights
- SG-157 Heavy Duty Solution Balance**
20 kg capacity, 1 gr sensitivity. Supplied complete with weights
- SG-159 Platform Scale**
50 kg capacity, 10 gr sensitivity, dial type
- Digital Balance**
- SG-160 Digital Balance** Capacity 310 x 0.001 gr **SG-**
- 161 Digital Balance** Capacity 6100 x 0.100 gr



- Proving Ring, Dial indicator**
- Proving Ring**
Precision measuring device, high grade steel with plated finishing 3/4" tapped hole at both end. Supplied complete with dial and calibration chart.
- SG-101.1 Proving Ring** 100 kg capacity
- SG-101.2 Proving Ring** 250 lbs capacity
- SG-101.3 Proving Ring** 500 lbs capacity
- SG-101.4 Proving Ring** 1.000 lbs capacity
- SG-101.5 Proving Ring** 2.000 lbs capacity
- SG-101.6 Proving Ring** 6.000 lbs capacity
- SG-101.7 Proving Ring** 10.000 lbs capacity
- Dial Indicator**
- SG-130 Dial Indicator** 0.2 in. x 0.0001 in.
- SG-131 Dial Indicator** 1.0 in. x 0.0100 in.
- SG-135 Dial Indicator** 10 mm x 0.01 mm
- SG-136 Dial Indicator** 20 mm x 0.01 mm
- SG-137 Dial Indicator** 30 mm x 0.01 mm
- SG-138 Dial Indicator** 50 mm x 0.01 mm
- SG-140 Dial Holder**
Chrome plated shaft with simple clamping device.
Powerful magnet with on-off switch. Precision ground surface.



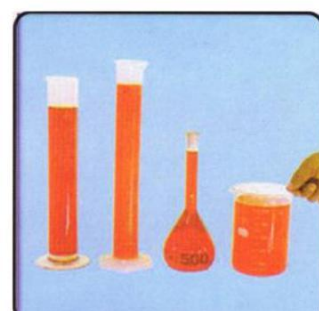
- Drying Oven , Hot Plate, Water Bath**
- Oven (Memmert)**
Universal oven, double walled metal shield. temperature range from room temperature to 200oC
- SG-171 Drying Oven** 14 ltr capacity, internal dimension (l x w x h) 320 x 240 x 175 mm
- SG-172 Drying Oven** 32 ltr capacity, internal dimension (l x w x h) 400 x 320 x 250 mm
- SG-173 Drying Oven** 39 ltr capacity, internal dimension (l x w x h) 480 x 320 x 250 mm
- SG-174 Drying Oven** 53 ltr capacity, internal dimension (l x w x h) 400 x 400 x 330 mm
- SG-175 Drying Oven** 108 ltr capacity, internal dimension (l x w x h) 560 x 480 x 400 mm
- SG-176 Drying Oven** 256 ltr capacity, internal dimension (l x w x h) 800 x 640 x 500 mm
- SG-177 Drying Oven** 416 ltr capacity, internal dimension (l x w x h) 1040 x 800 x 500 mm
- SG-178 Drying Oven** 749 ltr capacity, internal dimension (l x w x h) 1040 x 1200 x 600 mm
- Hot Plate**
- SG-191 Hot Plate** Electric, 1000 Watt, 220 V V
Single burner plate
- SG-192 Hot Plate** Electric, 1500 Watt, 220 V V
Double burner plate
- SG-200 Water Bath**
12 litre capacity, internal bath dimension 35 x 27 x 12 cm (l x w x h) Temperature range from room temperature to 70oC (working temperature 60oC



- COOLING SYSTEM, Butae Field Heater, Bunsen Burner, Statif, Tripod Stand, Asbestos Wire Gauze SG-203 Cooling System**
Electric, 220 V-AC. Supplied complete with water tank
- SG-222 Butae Field Heater**
Ideal for field or laboratory use. LPG consumption, single burner, supplied complete with LPG tank
- SG-230 Bunsen Burner**
LPG consumption, complete with fitting base and air consumption control
- SG-233 Statif**
Painted rectaangular iron base, vertical round rod
- SG-235 Tripod Stand**
Painted iron, circular top, 15 cm dia. approx
- SG-237 Asbestos Wire Gauze**
Asbestos centre, 15 x 15 cm
- SG-239 Glass Clamp**
Cast aluminium with adjustable opening



- Square Pan, Rectangular Pan, Round Pan, Mixing Bowl,**
- Sample Can, Thin Box**
- Square Pan**
Galvanized steel provided with handles on both sides.
- SG-300 Square Pan** 25 x 25 x 5 cm
- SG-301 Square Pan** 40 x 40 x 5 cm
- SG-302 Square Pan** 50 x 50 x 7.5 cm
- SG-303 Square Pan** 65 x 65 x 7.5 cm
- Rectangular Pan**
Galvanized steel provided with handles on both sides.
- SG-320 Rectangular Pan** 30 x 20 x 10 cm
- SG-321 Rectangular Pan** 45 x 30 x 15 cm
- SG-322 Rectangular Pan** 60 x 40 x 25 cm
- SG-323 Rectangular Pan** 90 x 60 x 40 cm
- RG-352 Round Pan**
Aluminium sheet, without handle, 25 cm dia. approx.
- Mixing Bowl**
Stainless steel, round type
- SG-360 Mixing Bowl** 10 cm diameter approx.
- SG-361 Mixing Bowl** 14 cm diameter approx.
- SG-362 Mixing Bowl** 20 cm diameter approx.
- SG-363 Mixing Bowl** 24 cm diameter approx.
- SG-380 Sample Can**
Thinned metal, provided with cap, 3 ltr capacity, 20 cm dia. approx.



- Graduated Cylinder Glass, Graduated Cylinder, Volumetric Flask,**
- Breaker Glass,**
- Graduated Cylinder**
Glass made, single numbering
- SG-400 Graduated Cylinder** 25 ml capacity
- SG-401 Graduated Cylinder** 50 ml capacity
- SG-402 Graduated Cylinder** 100 ml capacity
- SG-403 Graduated Cylinder** 250 ml capacity
- SG-404 Graduated Cylinder** 500 ml capacity
- SG-405 Graduated Cylinder** 1000 ml capacity
- Graduated Cylinder**
Plastic made, single numbering
- SG-400A Graduated Cylinder** 25 ml capacity
- SG-401A Graduated Cylinder** 50 ml capacity
- SG-402A Graduated Cylinder** 100 ml capacity
- SG-403A Graduated Cylinder** 250 ml capacity
- SG-404A Graduated Cylinder** 500 ml capacity
- SG-405A Graduated Cylinder** 1000 ml capacity
- Volumetric Flask**
Heat resistance glass
- SG-410 Volumetric Flask** 100 ml capacity
- SG-411 Volumetric Flask** 250 ml capacity
- SG-412 Volumetric Flask** 500 ml capacity
- SG-413 Volumetric Flask** 1000 ml capacity
- Breaker Glass**
Glass made, with spout
- SG-420 Breaker Glass** 100 ml capacity
- SG-421 Breaker Glass** 250 ml capacity
- SG-422 Breaker Glass** 600 ml capacity
- SG-423 Breaker Glass** 800 ml capacity
- SG-424 Breaker Glass** 1000 ml capacity

General Equipment



Erlenmeyer Flask, Vacuum Flask, Density Bottle

Erlenmeyer Flask

Glass made, provided with scale

SG-430 Erlenmeyer Flask 125 ml capacity

SG-431 Erlenmeyer Flask 250 ml capacity

SG-432 Erlenmeyer Flask 500 ml capacity

SG-433 Erlenmeyer Flask 1000 ml capacity

SG-434 Erlenmeyer Flask 2000 ml capacity

Vacuum Flask

Thick glass with side tabulation for vacuum hose, provided with scale

SG-430A Vacuum Flask 125 ml capacity

SG-431A Vacuum Flask 250 ml capacity

SG-432A Vacuum Flask 500 ml capacity

SG-433A Vacuum Flask 1000 ml capacity

SG-434A Vacuum Flask 2000 ml capacity

Density Bottle

SG-440 Density Bottle 50 ml capacity

SG-441 Density Bottle 100 ml capacity



Separatory Funnel, Filter Funnel

Separatory Funnel

Glass with stopper and cap.

SG-445 Separatory Funnel Glass, 250 ml capacity

SG-446 Separatory Funnel Glass, 500 ml capacity

Filter Funnel

Porcelain with perforated base for filtering purpose.

SG-448 Filter Funnel 125 ml capacity

SG-449 Filter Funnel 500 ml capacity



Dessicator, SILICA GEL

Dessicator

Non vacuum type, supplied without silica gel

SG-450 Dessicator 21 cm diameter

SG-451 Dessicator 24 cm diameter

SG-452 Dessicator 30 cm diameter

Dessicator

Vacuum type, supplied without silica gel.

SG-450A Dessicator 21 cm diameter

SG-451A Dessicator 24 cm diameter

SG-452A Dessicator 30 cm diameter

SG-455 SILICA GEL Water vapour absorbent



Funnel, Burrette, Evaporating Dish, Mortar and Pestle, Wash Bottle, Pipette, Crucibles

Funnel

SG-470 Funnel Plastic, narrow mouth

SG-471 Funnel Plastic, wide mouth

SG-472 Funnel Glass, narrow mouth

SG-473 Funnel Glass, wide mouth

Burrette

Graduated glass, with stopper

SG-480 Burrette 21 ml capacity

SG-481 Burrette 25 ml capacity

SG-482 Burrette 50 ml capacity

SG-483 Burrette 100 ml capacity

Evaporating Dish

heat resistance porcelain

SG-500 Evaporating Dish 9 cm dia., 100 ml capacity

SG-501 Evaporating Dish 12 cm dia., 250 ml capacity

SG-502 Evaporating Dish 15 cm dia., 350 ml capacity

SG-503 Evaporating Dish 17 cm dia., 500 ml capacity

Mortar and Pestle

Thick porcelain dish grinding materials

SG-510 Mortar and Pestle 12 cm diameter approx

SG-511 Mortar and Pestle 15 cm diameter approx

SG-512 Mortar and Pestle 18 cm diameter approx

Wash Bottle

Plastic bottle, with tubing

SG-521 Wash Bottle 250 ml capacity

SG-522 Wash Bottle 500 ml capacity

SG-523 Wash Bottle 1000 ml capacity

Pipette

Graduated glass for accurate water leaving in flask

SG-530 Pipette 5 ml capacity

SG-531 Pipette 10 ml capacity

SG-532 Pipette 15 ml capacity



Manometer, Vacuum Manometer, Vacuum Pump

Manometer

For measuring pressure, single pointer

SG-670 Manometer 25 kg/cm² capacity, 6" dia.

SG-671 Manometer 60 kg/cm² capacity, 6" dia.

SG-672 Manometer 150 kg/cm² capacity, 6" dia.

SG-673 Manometer 250 kg/cm² capacity, 6" dia.

SG-674 Manometer 300 kg/cm² capacity, 6" dia.

SG-675 Manometer 500 kg/cm² capacity, 6" dia.

SG-676 Manometer 700 kg/cm² capacity, 6" dia.

SG-677 Manometer 100 kg/cm² capacity, 6" dia.

SG-679 Vacuum Manometer

For measuring vacuum condition, 4" dia. 0-76 cm HG.

SG-680 Vacuum Pump

Rotary type, 220 V-AC, 1/4 HP, 1 Phase, for creating vacuum air.



Hydraulic Cylinder, Hydraulic Hand Pump,

Hydraulic Electric Pump, Hydraulic Hose

Hydraulic Cylinder

SG-681 Hydraulic Cylinder 30 capacity

SG-682 Hydraulic Cylinder 50 capacity

SG-683 Hydraulic Cylinder 100 capacity

SG-684 Hydraulic Cylinder 150 capacity

SG-685 Hydraulic Cylinder 200 capacity

Hydraulic Hand Pump

SG-690 Hand Pump 10,000 psi, single acting

SG-691 Hand Pump 10,000 psi, double acting

Hydraulic Electric Pump

Electric, 220 V-AC, 750 Watt, 1 Phase. **SG-694**

Electric Pump 10,000 psi, single acting **SG-695**

Electric Pump 10,000 psi, double acting

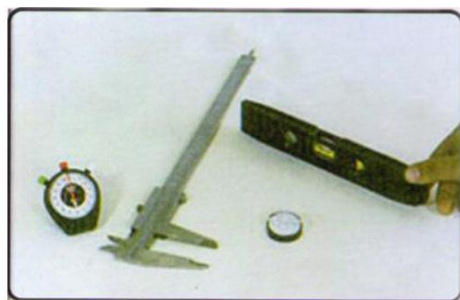
Hydraulic Hose

SG-697 Hydraulic Hose 60 cm length, 10,000 psi

SG-698 Hydraulic Hose 120 cm length, 10,000 psi

SG-699 Hydraulic Hose 180 cm length, 10,000 psi

General Equipment



Stop Watch, Vernier Caliper, Levels

Stop Watch

- SG -700 Stop Watch, 60 sec sweep x 30 min.
SG -701 Stop Watch, 30 sec sweep x 10 min.

Vernier Caliper

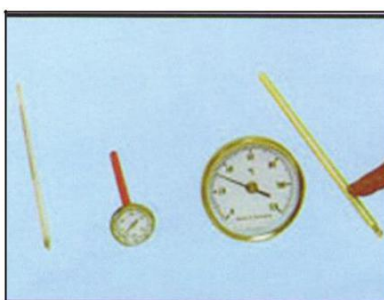
- SG -710 Vernier Caliper, 6" (150 mm) capacity.
SG -711 Vernier Caliper, 8" (200 mm) capacity.
SG -712 Vernier Caliper, 10" (250 mm) capacity.
SG -713 Vernier Caliper, 12" (300 mm) capacity.

Levels

- For checking the level of an apparatus/instrument, round type.

Levels

- SG -721 For checking the level of an apparatus/instrument, straight type.



Thermometer, Dial Thermometer, Pocket Dial Thermometer, ASTM Thermometer (Specific Gravity / Loss on Heating / Saybolt Viscosimeter / Softening Point / Open Flash) Thermometer

Glass, alcohol indicator, 30 cm length.

SG-600 Thermometer Range 0 - 50oC

SG-601 Thermometer Range 0 - 100oC

SG-602 Thermometer Range 0 - 150oC

SG-603 Thermometer Range 0 - 200oC

SG-604 Thermometer Range 0 - 300oC

SG-605 Thermometer Range 0 - 360oC

Pocket Dial Thermometer

SG-610 Pocket Dial Thermometer Range 0 - 100oC

SG-611 Pocket Dial Thermometer Range 0 - 200oC

SG-612 Pocket Dial Thermometer Range 0 - 250oC

Dial Thermometer

Stainless steel stem and housing.

SG-620 Dial Thermometer Range 0 - 100oC

SG-621 Dial Thermometer Range 0 - 200oC

SG-622 Dial Thermometer Range 0 - 250oC

SG-641 ASTM Thermometer (Specific Gravity)

SG-641 Thermometer 12 C, 20 to 102oC

SG-642 ASTM Thermometer

SG-642 Thermometer 63 C, 8 to 32oC

SG-643 ASTM Thermometer (Loss on Heating)

SG-643 Thermometer 13 C, 155 to 170oC SG-644

ASTM Thermometer (Saybolt Viscosimeter) SG-

644.1 Thermometer 17 C, 19 to 27oC SG-644.2

Thermometer 18 C, 34 to 42oC SG-644.3

Thermometer 19 C, 49 to 57oC SG-644.4

Thermometer 20 C, 57 to 65oC SG-644.5

Thermometer 21 C, 79 to 87oC SG-644.6

Thermometer 22 C, 95 to 103oC

SG-646 ASTM Thermometer (Softening Point) SG-

646.1 Thermometer 15 C, 2 to 80oC SG-646.2

Thermometer 16 C, 30 to 200oC SG-648 ASTM

Thermometer (Open Flash)

SG-648 Thermometer 11 C, 6 to 400oC SG-

649 ASTM Thermometer (Distillation) SG-

649.1 Thermometer 7 C, 2 to 300oC SG-

649.2 Thermometer 8 C, 2 to 400oC



Open End Wrench, Ring Spanner, Allen Key, Pipe Wrench, Strap Wrench, Adjustable Wrench Open End Wrench

SG -730

Open End Wrench, Metric unit, 8 pcs.

SG -731

Open End Wrench, Imperial unit, 8 pcs.

Ring Spanner

SG -732

Ring Spanner, Metric unit, 8 pcs.

SG -733

Ring Spanner, Imperial unit, 8 pcs.

Allen Key

SG -734

Allen Key, Metric unit, 8 pcs.

SG -735

Allen Key, Imperial unit, 8 pcs.

Pipe Wrench

SG -736

Pipe Wrench, 8" length.

SG -737

Pipe Wrench, 12" length.

SG -738

Pipe Wrench, 18" length.

SG -739

Pipe Wrench, 24" length.

Strap Wrench

SG -740

Strap Wrench, 4" capacity.

SG -741

Strap Wrench, 6" capacity.

Adjustable Wrench

SG -742

Adjustable Wrench, 6" length.

SG -743

Adjustable Wrench, 8" length.

SG -744

Adjustable Wrench, 10" length.

SG -745

Adjustable Wrench, 12" length.



Spatula, Scraper, Spoon, Trowel, Gardener's Type Trowel Spatula

SG -820

Spatula, Plastic handle, stainless steel blade

SG -825

Scraper, Plastic handle, stainless steel blade.

Spoon

SG -860

Spoon, Small size.

SG -861

Spoon, Large size.

Trowel

SG -871

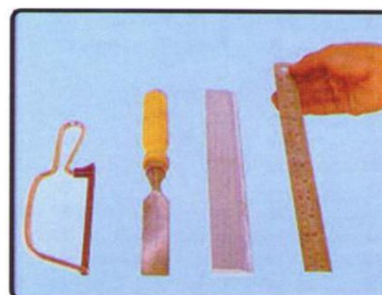
Trowel, Wooden handle, pointed type.

SG -872

Trowel, Wooden handle, round type.

SG -875

Gardener's Type Trowel, Wooden / plastic handle.



Wire Saw, Chisel, Straight Edge, Ruler

SG -840

Wire Saw, For preparing soil sample

SG -880

Chisel, Hard steel, for compact material, 30 cm length approx.

SG -890

Straight Edge, 30 cm length.

SG -891

Straight Edge, 40 cm length.

SG -895

Ruler, 30 cm length.

SG -896

Ruler, 100 cm length.



SG -900

Rubber Mallet

Rubber head, wooden/steel handle, 0.5 kg weight.

SG -901

Hammer

Steel, 1 kg weight.

SG -902

Hammer

Steel, 5 kg weight.

SG -920

Steel Wire Brush

For cleaning laboratory / field apparatus

SG -921

Brass Wire Brush

For cleaning laboratory / field apparatus

SG -922

Soft Brush

Black hair, round type.

SG -930

Tamping Rod

16 mm dia, 60 cm length.

SG -931

Tamping Rod

20 mm dia, 60 cm length.



SG -747

Rubber Gloves

Rubber materials, water proof, for chemical purposes.

SG -748

Leather Gloves

Leather materials, for general purposes.

SG -749

Asbestos Gloves

Asbestos materials, for heat resistance purpose.

SG -750

Quatering Canvas

Heavy duty canvas for field and laboratory use 100 cm x 100 cm.



SG -800

Round Scoop

Round bottom, small size.

SG -801

Round Scoop

Round bottom, large size.

SG -805

Flat Scoop

Flat bottom, small size.

SG -806

Flat Scoop

Flat bottom, large size.

SG -810

Scoop Pan

Galvanized metal, flat bottom, with handle.

SG -815

Aggregate Scoop

Wooden handle, metal blade, 1 meter length approx.

General Equipment



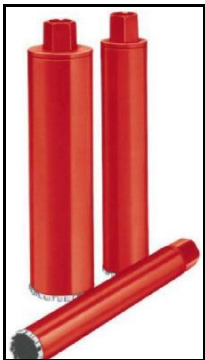
MORTAR MEXER
Bench model ,electric 220 V-AC, supplied complete with beaters.
Type Part Name Specification
 Mortar Milixer 5 litre capacity
 Mortar Mixer 10 litre capacity



Digital Theodolite Nikon NE 100
- 5 atau 10 ° (5/10mgon, 0.01/0.02mil) membaca sudut,
- 10 atau 20 ° (2/5mgon, 0.05/0.01mil) membaca sudut untuk NE-100
- Baterai mangan dengan 22 jam operasi (48 jam dengan baterai alkaline)
- IPx54 tahan air
- Tampilan yang jelas dan hawar dengan pencahayaan backlight
- Antarmuka pengguna yang sederhana
- iluminasi reticle
- Teleskop terang 30x



WATER PASS TOPCON AT-B4
Spesifikasi Teknis :
Perbesaran 24X, Waterproof IPX6, Magnetic Dumping systems
360 derajat bacaan horizontal, Sighting guide : 1: 100
Jarak sampai 250 feet, Akurasi jarak 2 mm



Couring
For cutting core samples asphalt
2" inner diameter
4" inner diameter.
6" inner diameter



Geodetic global positioning system (G-GPS)
Garmin GPSMAP 64S
Physical dimensions : 2.4" x 6.3" x 1.4" (6.1 x 16.0 x 3.6 cm)
Display size, WxH : 1.43" x 2.15" (3.6 x 5.5 cm); 2.6" diag (6.6 cm)
Display resolution, WxH : 160 x 240 pixels
Display type : transfective, 65-K color TFT, transfective
Weight : 8.1 oz (230 g) with batteries
Battery : 2 AA batteries (not included); NIMH or Lithium recommended
Battery life : 16 hours
Water rating : IPX7
High-sensitivity receiver : YES
Interface : high-speed USB and NMEA 0183 compatible
Barometric altimeter : YES
Electronic compass : Yes (tilt-compensated 3-axis)
Unit-to-unit transfer (shares data wirelessly with similar units) : YES
MAPS & MEMORY
Basemap : YES
Ability to add maps : YES
Built-in memory : 4GB
Accepts data cards : microSD™ card (not included)
Custom POIs (ability to add additional points of interest) : YES
Waypoints/favorites/locations : 5000
Routes : 200
Track log : 10,000 points, 200 saved tracks
OUTDOOR FEATURES
Automatic routing (turn by turn routing on roads) : YES
Geocaching-friendly : Yes (Paperless)
Custom maps compatible : YES
Hunt/fish calendar : YES
Sun and moon information : YES
Tide tables : Yes (with optional Bluechart)
Area calculation : YES
Picture viewer : YES
Garmin Connect™ compatible (online community where you analyze, categorize and share data) : YES



LABORATORY DRYING OVEN LOKAL
Spesifikasi :
- Fan/Blower
- Heating Element
- Rak 2 susun
- Casing : Plat Ezer 1.5 mm – plat stainless 0.8 mm
- Digital Display 75 X 75 mm
- Seting timer alarm h3cr
- Temperature control tc4L-200
- Sekring pengaman
- Alarm over heat
- Alarm Finish oven

Kapasitas 32 ltr (PXLXT) 40 x 37 x 25
Kapasitas 53 ltr (PXLXT) 40 x 40 x 33
Kapasitas 108 ltr (PXLXT) 56 x 48 x 40
Kapasitas 256 ltr (PXLXT) 80 x 70 x 50