40 TAHUN 1974 - 2014

MBT Trading

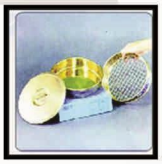
ISO-9001-2000.QMS

MEKTAN Manufacturer

PT.Mektan Babakan Tujuh Utama

Peralatan Pengajian Laboratorium dan Insitu Test Tanah, Beton, dan Aspal

Brosur Edisi 2014



Daftar Peralatan MBT Dan Pricelist 2015

NO.	TYPE	URAIAN	
A.	SO -	SOIL TEST EQUIPMENT	
1	SO-110 A	HAND BOR	
2	SO-150 A	DYNAMIC CONE PENETROMETER	
3	SO-210	DUTCH CONE PENETROMETER (Sondir 5 ton)	
4	SO-260	FIELD CBR TEST SET	
5	SO-140	SAMPLE EXTRUDER (Hand Operated)	
6	SO-310	LIQUID LIMIT TEST SET	
7	SO-315	PLASTIC LIMIT TEST SET	
8	SO-320	SHRINKAGE LIMIT TEST SET	
9	SO-330 A	HYDROMETER ANALYSIS TEST SET	
10	SO-340	SPECIFIC GRAVITY (HEATING)	
11	SO-340 A	SPECIFIC GRAVITY (VACUUM/STAND)	
12	SO-350	COMPACTION TEST SET	
13	SO-360 A	LABORATORY CBR TEST SET (Manual)	
14	SO-400	SAND CONE TEST SET	
15	SO-430	SPEEDY MOISTURE TESTER	
16	SO-450	MOISTURE CONTENT TEST SET	
17	SO-500 A	UNCONFINED COMPRESSION MACHINE (Electric)	
18	SO-525	DIRECT SHEAR TEST SET	
19	SO-550	TRIAXIAL TEST SET	
20	SO-200	DUTCH CONE PENETROMETER (Sondir 2,5 ton)	
21	SO-720	HYDRAULIC PENETROMETER 50 KN	
22	BT-710	MOBILE LABORATORIUM SOIL TEST	
B.	AG -	AGGREGATE TEST EQUIPMENT	
1	AG-100	SAMPLE SPLITER	
2	AG-200	Analisa Saringan Dia 8" Brass (Kuningan)	
3	AG- 300	Analisa Saringan Dia 8" Stainless steel	
	PARTS NUMBER :		
	AG-200 A / 300 A	Sieve 4"	Mesh 101.6 mm opening
	AG-201 A / 301 A	Sieve 3 1/2"	Mesh 88.9 mm opening
	AG-202 A / 302 A	Sieve 3"	Mesh 76.2 mm opening
	AG-203 A / 303 A	Sieve 2 1/2"	Mesh 62.5 mm opening
	AG-204 A / 304 A	Sieve 2"	Mesh 50.8 mm opening
	AG-205 A / 305 A	Sieve 1 3/4"	Mesh 44.4 mm opening
	AG-206 A / 306 A	Sieve 1 1/2"	Mesh 38.1 mm opening
	AG-207 A / 307 A	Sieve 1 1/4"	Mesh 31.7 mm opening
	AG-208 A / 308 A	Sieve 1"	Mesh 25.4 mm opening
	AG-209 A / 309 A	Sieve 7/8"	Mesh 22.2 mm opening
	AG-210 A / 310 A	Sieve 3/4"	Mesh 19.0 mm opening
	AG-211 A / 311 A	Sieve 5/8"	Mesh 15.8 mm opening

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	AG-212 A / 312 A	Sieve 1/2"	Mesh 12.7 mm opening
	AG-213 A / 313 A	Sieve 7/16"	Mesh 11.1 mm opening
	AG-214 A / 314 A	Sieve 3/8"	Mesh 9.5 mm opening
	AG-215 A / 315 A	Sieve 5/16"	Mesh 7.9 mm opening
	AG-216 A / 316 A	Sieve 1/4"	Mesh 6.3 mm opening
	AG-218 A / 318 A	Sieve # 4	Mesh 4.75 mm opening
	AG-222 A / 322 A	Sieve # 8	Mesh 2.36 mm opening
	AG-223 A / 323 A	Sieve # 10	Mesh 2.00 mm opening
	AG-224 A / 324 A	Sieve # 12	Mesh 1.70 mm opening
	AG-226 A / 326 A	Sieve # 16	Mesh 1.18 mm opening
	AG-228 A / 328 A	Sieve # 20	Mesh 0.850 mm opening
	AG-230 A / 330 A	Sieve # 30	Mesh 0.600 mm opening
	AG-232 A / 332 A	Sieve # 40	Mesh 0.425 mm opening
	AG-234 A / 334 A	Sieve # 50	Mesh 0.300 mm opening
	AG-235 A / 335 A	Sieve # 60	Mesh 0.250 mm opening
	AG-236 A / 336 A	Sieve # 70	Mesh 0.212 mm opening
	AG-237 A / 337 A	Sieve # 80	Mesh 0.180 mm opening
	AG-238 A / 338 A	Sieve # 100	Mesh 0.150 mm opening
	AG-239 A / 339 A	Sieve # 120	Mesh 0.125 mm opening
	AG-240 A / 340 A	Sieve # 140	Mesh 0.106 mm opening
	AG-241 A / 341 A	Sieve # 170	Mesh 0.090 mm opening
	AG-242 A / 342 A	Sieve # 200	Mesh 0.075 mm opening
	AG-250 A / 350 A	PAN & COVER	
4	AG-515	SIEVE SHAKER (Electric)	
5	AG-600	SAND EQUIVALENT TEST SET	
6	AG-610	SAND EQUIVALENT SHAKER	
7	AG-700	LOS ANGELES ABRASSION MACHINE	
8	AG-810 A	ABSORPTION OF FINE AGGREGATE TEST SET	
9	AG-830	SPECIFIC GRAVITY & ABSORPTION OF C.A TEST SET	
10	AG-910	ORGANIC IMPURITIES TEST SET	
11	AG-920	SOUNDNESS TEST SET	
12	BT-300	MOBILE ASPHALT MIXER	
13	BT-500 B	PERALATAN PENGEBORAN (DRILLING KEDALAMAN 120 M)	
C.	**CE -**	**CEMENT TEST EQUIPMENT**	
1	CE-110	SPECIFIC GRAVITY OF HYDRAULIC CEMENT TEST	
2	CE-120	TIME OF SETTING OF HC BY VICAT NEEDLE	
3	CE-160 A	COMP.STRENGTH OF HC MORTAR (Electric)	
4	CE-170	COMP.STRENGTH CEMENT MORTAR (100 kn)	
D.	**CO -**	**CONCRETE TEST EQUIPMENT**	
1	CO-301	CONCRETE CYLINDER MOLD (15 x 30 cm)	
2	CO-317 A	CONCRETE BEAM MOLD (15 x 15 x 60 cm)	
3	CO-319 A	CONCRETE BEAM MOLD (20 x 20 x 80 cm)	
4	CO-312	CONCRETE CUBE MOLD (15 x 15 x 15 cm)	
5	CO-325.4	COMPRESSION MACHINE 2000 KN Elektrik	
6	CO-330	HYDRAULIC CONCRETE BEAM TEST MACHINE	
7	CO-355	COMPACTING FACTOR APPARATUS	

8	CO-370	SLUMP TEST SET
9	CO-380	VEBE TIME
10	CO-400	AIR CONTENT OF FRESH MIXED CONCREETE
11	CO-410	VIBRATING TABLE
12	CO-470	VERTICAL CYLINDER CAPPING
13	CO-500	MODULUS OF ELASTICITY IN CONCREETE TEST
14	CO-550	CONCRETE TEST HAMMER
15	CO-555	CALIBRATION ANVIL
16	CO-610	LABORATORY CONCRETE MIXER
17	BT-720	MOBILE LABORATORIUM CONCREETE TESTING
E.	**BI -**	**ASPHALT TEST EQUIPMENT**
1	BI-100 A	SPECIFIC GRAVITY OF SEMI - SOLID
		BITUMINOUS MATERIALS
2	BI-110 A	DISTILATION OF CUTBACK ASPHALTS
3	BI-120	WATER CONTENT IN PETROLEUM PRODUCTS
4	BI-150 A	SAYBOLT VISCOSIMETER
5	BI-200 A	FLASH AND FIRE POINT BY CLEVELAND (Electric)
6	BI-210 A	SOFTENING POINT TEST SET
7	BI-230 A	LABORATORY PENETRATION TEST SET (Electric)
8	BI-250	DUCTILITY OF BITUMINOUS MATERIALS TEST
9	BI-300 A	CENTRIFUGE EXTRACTOR TEST SET (Electric)
10	BI-310	REFLUX EXTRACTOR TEST SET
11	BI-320	MARSHALL TEST SET
12	BI-400	CORE DRILLING TEST SET
13	BI-450	BENKLEMAN BEAM
14	BI-470	MOT STRAIGHT EDGE
15	BT-730	MOBILE LABORATORIUM ASPHALT
16	BT-300	MOBILE LABORATORIUM ASPHALT MIXER (FM-500)
F.	**GE-**	**GENERAL TEST EQUIPMENT**
1	GE-101.1	Proving Ring 100 kg capacity
2	GE-101.2	Proving Ring 250 lbs capacity
3	GE-101.3	Proving Ring 500 lbs capacity
4	GE-101.4	Proving Ring 1000 lbs capacity
5	GE-101.5	Proving Ring 2000 lbs capacity
6	GE-101.6	Proving Ring 6000 lbs capacity
7	GE-101.7	Proving Ring 10000 lbs capacity
8	GE-130	Dial Indicator 0.2 in. x 0.0001 in
9	GE-135	Dial Indicator 10 mm. x 0.01 mm
10	GE-136	Dial Indicator 20 mm. x 0.01 mm
11	GE-137	Dial Indicator 30 mm. x 0.01 mm
12	GE-138	Dial Indicator 50 mm. x 0.01 mm
13	GE-140	Dial Holder
14	GE-150	Cent O-Gram Balance 311 gr capacity 0.01 sensitivity
15	GE-151	Cent O-Gram Balance 311 gr capacity 0.01 sensitivity
16	GE-152	Triple Beam Balance 2.610 gr capacity 0.1 sensitivity.
17	GE-153	Dial O-Gram Balance 2.610 gr capacity 0.1 sensitivity

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18	GE-157	Heavy Duty Solution Balance 20 kg capacity,1 gr sensitivity
19	GE-159	Platform Scale 50 kg capacity, 10 gr sensitivity, dial type
20	GE-160	Digital Balance Capacity 310 x 0.001 gr
21	GE-161	Digital Balance Capacity 6100 x 0.100 gr
22	GE-171	Drying Oven 14 ltr capacity, 320 x 240 x 175 mm
23	GE-172	Drying Oven 32 ltr capacity,400 x 320 x 250 mm
24	GE-173	Drying Oven 39 ltr capacity,480 x 320 x 250 mm
25	GE-174	Drying Oven 53 ltr capacity,400 x 400 x 330 mm
26	GE-175	Drying Oven 108 ltr capacity,560 x 480 x 400 mm
27	GE-176	Drying Oven 256 ltr capacity,800 x 640 x 500 mm
28	GE-177	Drying Oven 416 ltr capacity,1040 x 800 x 500 mm
29	GE-178	Drying Oven 749 ltr capacity,1040 x 1200 x 600 mm
30	GE-950	Mortar Mixer 5 litre capacity
31	GE-951	Mortar Mixer 10 litre capacity
32	GE-300	Square Pan 25 x 25 x 5 cm
33	GE-301	Square Pan 40 x 40 x 5 cm
34	GE-302	Square Pan 50 x 50 x 7,5 cm
35	GE-303	Square Pan 65 x 65 x 7,5 cm
36	GE-320	Rectangular Pan 30 x 20 x 10 cm
37	GE-321	Rectangular Pan 45 x 30 x 15 cm
38	GE-322	Rectangular Pan 60 x 40 x 25 cm
39	GE-323	Rectangular Pan 90 x 60 x 40 cm
40	GE-354	Round Pan Alumunium sheet 25 cm dia. Approx
41	GE-360	Mixing Bowl 10 cm diameter approx.
42	GE-361	Mixing Bowl 14 cm diameter approx.
43	GE-362	Mixing Bowl 20 cm diameter approx.
44	GE-363	Mixing Bowl 24 cm diameter approx.
45	GE-380	Sample Can 3 ltr capacity, 20 cm dia. Approx
46	GE-390	Thin Box 60 gram capacity
47	GE-391	Thin Box 120 gram capacity
48	GE-386	Glass Plate 10 cm thick, 30 x 30 cm
49	GE-670	Manometer 25 kg/cm2 capacity, 6" dia.
50	GE-671	Manometer 60 kg/cm2 capacity, 6" dia.
51	GE-672	Manometer 150 kg/cm2 capacity, 6" dia.
52	GE-673	Manometer 250 kg/cm2 capacity, 6" dia.
53	GE-674	Manometer 300 kg/cm2 capacity, 6" dia.
54	GE-675	Manometer 500 kg/cm2 capacity, 6" dia.
55	GE-676	Manometer 700 kg/cm2 capacity, 6" dia.
56	GE-677	Manometer 100 kg/cm2 capacity, 6" dia.
57	GE-700	Stop Watch 60 sec sweep x 30 min
58	GE-701	Stop Watch 30 sec sweep x 10 min
59	GE-400	Graduated Cylinder 25 ml capacity
60	GE-401	Graduated Cylinder 50 ml capacity
61	GE-402	Graduated Cylinder 100 ml capacity
62	GE-403	Graduated Cylinder 250 ml capacity
63	GE-404	Graduated Cylinder 500 ml capacity
64	GE-405	Graduated Cylinder 1000 ml capacity
65	GE-400 A	Graduated Cylinder 25 ml capacity
66	GE-401 A	Graduated Cylinder 50 ml capacity
67	GE-402 A	Graduated Cylinder 100 ml capacity

68	GE-403 A	Graduated Cylinder 250 ml capacity
69	GE-404 A	Graduated Cylinder 500 ml capacity
70	GE-405 A	Graduated Cylinder 1000 ml capacity
71	GE-410	Volumetric Flask 100 ml capacity
72	GE-411	Volumetric Flask 250 ml capacity
3	GE-412	Volumetric Flask 500 ml capacity
74	GE-413	Volumetric Flask 1000 ml capacity
75	GE-420	Breaker Glass 100 ml capacity
76	GE-421	Breaker Glass 250 ml capacity
77	GE-422	Breaker Glass 600 ml capacity
78	GE-423	Breaker Glass 800 ml capacity
79	GE-424	Breaker Glass 1000 ml capacity
80	GE-600	Thermometer Range 0 - 50°C
81	GE-601	Thermometer Range 0 - 100°C
82	GE-602	Thermometer Range 0 - 150°C
83	GE-603	Thermometer Range 0 - 200°C
84	GE-604	Thermometer Range 0 - 300°C
85	GE-605	Thermometer Range 0 - 360°C
86	GE-610	Pocket Dial Thermometer Range 0 - 100°C
87	GE-611	Pocket Dial Thermometer Range 0 - 200°C
88	GE-612	Pocket Dial Thermometer Range 0 - 250°C
89	GE-620	Dial Thermometer Range 0 - 100°C
90	GE-621	Dial Thermometer Range 0 - 200°C
91	GE-622	Dial Thermometer Range 0 - 250°C

Dengan Catatan :

1. CARA PEMBAYARAN
- 50% Pembayaran Uang Muka Saat Pesanan Diterima
- 50% Saat barang Siap Dikirim

2. Pembayaran Dapat Di Transfer, ke Rekening
Bank Mandiri No. 132.001.545.5760 A/N PT.Mektan Babakan Tujuh Utama

3. Penyerahan Barang tergantung quantity barang yang dipesan ,

4. Belum termasuk PPN dan Transport,

5. Brosur Peralalatan Mohon Kunjungi www.mbtoriginal.com - www.mektan.com ,

6. Untuk Informasi Lebih Lanjut Hub . 081.220.636.447 (H.A.Pawennei) Atau 0878.2553.3347 (Andy Achmad)

Bandung, Februari 2015
PT.Mektan Babakan Tujuh Utama

Achmad Pawennei
Direktur Utama

Hand Bor (SO - 110A)

Type	Parts Name	Specification	Qty
SO-111	Drilling Rod	Mslid Bar, 1 meter length, 1 1/4" dia.	10 Pcs
SO-112	Iwan Type Auger	Welded Steel, two radial blades, 4" dia.	1 Pc
SO-113	Straight Chopping Auger	Steel Bar, hardened tip, 45 mm width	1 Pc
SO-114	T-Piece	Welded Steel	1 Pc
SO-115	Tube Adaptor	Machined Steel, with 3 clampings bolts	1 Pc
SO-116	Turning Rod	Machined Steel, 1 1/4" dia., 60 cm length	2 Pcs
SO-117	Sampling Tube	68 mm dia., 40 cm length with 3 bolt holes	10 Pcs
SO-118	Rod Head	Hardened, machined steel, 2 1/2" dia.	1 Pc
SO-119	Parafin		2 Kg
SO-120	Vertical Guide	Machined Steel	1 Pc
SO-735A	Allen Key	Hardened Steel, 1/4"	1 Pc
GE-739	Pipe Wrench	24" length	2 Pcs
GE-902	Hammer	5 Kg weight	1 Pc
GE-920	Steel Wire Brush	Wooden Handle	1 Pc

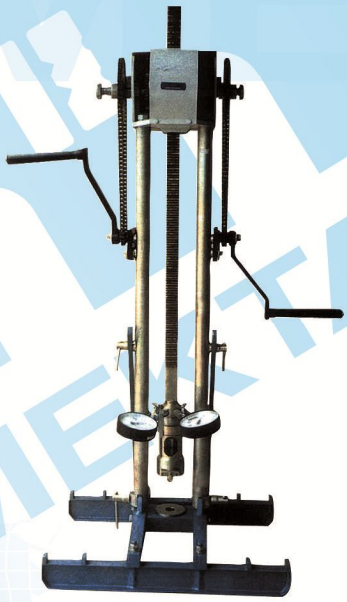
Dimension (l x w x h) : 105 x 60 x 60 cm
Gross Weight : 130 Kg

Dynamic Cone Penetrometer (SO - 150A)

For rapid determination of field CBR value (rapid quality control).

Type	Parts Name	Specification	Qty
SO-151	Handle	Stainless Steel	1 Pc
SO-152	Hammer	Machined Steel, Painted, 8 Kg weight	1 Pc
SO-153	Guide Rod	Stainless Steel, 16 mm dia., drop height 575 mm	1 Pc
SO-154	Anvil	Machined Steel, welded, painted	1 Pc
SO-155A	Penetration Rod	Stainless Steel, 16 mm dia., 75 cm effective length	1 Pc
SO-156	Cone	Hardened tool steel cone tip, 60° angle, 20 mm dia., stainless steel adaptor	3 Pcs
SO-157A	Penetration Scale	Stainless Steel, 16 mm dia., 75 cm scale	1 Pc
SO-158	Carrying Bag	Water Proof Cloth	1 Pc
GE-730A	Open End Wrench	Vanadium Steel 12/13, 14/15	2 Pcs

Dimension (l x w x h) : 115 x 20 x 20 cm
Gross Weight : 15 Kg

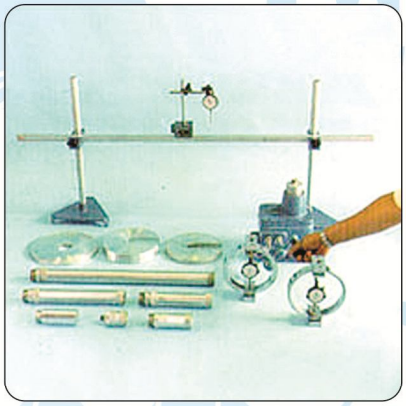


Dutch Cone Penetrometer (SO - 210)

ASTM D-3441
For determining cone resistance and friction resistance of soil layers.

Type	Parts Name	Specification	Qty
SO-211	Press-in Apparatus	Steel construction, manually operated 5 tons capacity	1 Set
SO-202A	Sounding Rod	Machined steel, 36 mm o.d., 1 mtr effective length, tappered thread	20 Pcs
SO-203	Plunger Rod	Round bar, 15 mm dia, 1 mtr length	20 Pcs
SO-204	Adaptor		
Consist of			
SO-204.1	Push Adaptor	Machined steel	1 Pc
SO-204.2	Pull Adaptor	Machined steel	1 Pc
SO-205	Spiral Anchor		
Consist of			
SO-205.1	Spiral Anchor	Machined steel, elded 1.5 mtr length	4 Pcs
SO-205.2	Handle and T-piece	Machined steel, welded	1 Set
SO-206A	Mantel cone	Precision machined steel, hardened, tappered thread, 60° angle, 35.7 mm dia.	1 Pc
SO-207A	Friction cone	Precision machined steel, hardened, with friction jacket, tappered thread, 60° angle, 35.7 mm dia.	
SO-208	Wrenches Set	Pile 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 (1)	1 Set
SO-209	Fasten Press	Beam Cannal	
Consist of			
SO-209.1	Long Fasten Press	1.5 mtr length, 8 cm width	2 Pcs
SO-209.2	Short Fasten Press	1 mtr length, 12 cm width	2 Pcs
GE-671	Manometer	60 kg/cm^2 capacity	1 Pc
GE-675	Manometer	500 kg/cm^2 capacity	1 Pc

Dimension (l x w x h) : 220 x 120 x 80 cm
Gross Weight : 460 kg

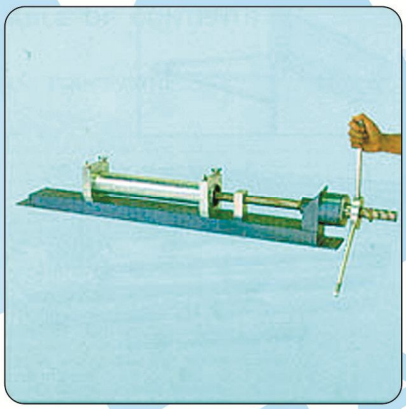


Field CBR Test Set (SO - 260)

ASTM D-4429
For determining CBR value on place.

Type	Parts Name	Specification	Qty
SO-261	**Mechanical Jack**	Cast alumunium housing, 5 tons cap, hand operated, 2 speeds.	
Consist of :			
SO-261.1	**Mechanical Jack**	5 tons capacity	1 Pc
SO-261.2	**Swivel Hand**	Cast alumunium	1 Pc
SO-262	**Field Penetration Piston**	Machined steel, galvanized, adjustable height	
Consist of :			
SO-262.1	**Penetration Piston**	Machined steel, galvanized, 1.954" piston dia.	1 Pc
SO-262.1	**Extension Set**	Machined steel, galvanized, 5 cm, 10 cm, 20 cm and 60 cm, provided with connecting adaptor	1 Set
SO-263	**Reference Beam**	Steel pipe, 160 cm span	1 Set
SO-264	**Circular Surchange Weight**	Machined steel, galvanized, 10" dia., 10 lbs weight	1 Pc
SO-265	**Slotted Surchange Weight**	Machined steel, galvanized, 8" dia., 10 lbs weight	1 Pc
SO-266	**Slotted Surchange Weight**	Machined steel, galvanized, 8.5" dia., 20 lbs weight	1 Pc
GE-101.5	**Proving Ring**	2.000 lbs capacity	1 Set
GE-101.7	**Proving Ring**	10.000 lbs capacity	1 Set
GE-136	**Dial Indicator**	Range 20 x 0.01 mm	1 Pc
GE-140	**Dial Holder**	Magnetic Work	1 Pc

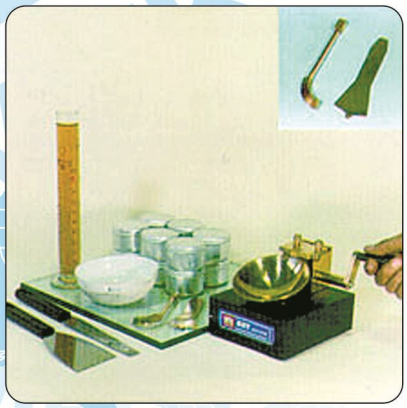
Dimension (l x w x h) : 145 x 40 x 40 cm
Gross Weight : 77 kg



Sample Extruder (SO - 140)

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



Liquid Limit Test Set (SO - 310)

ASTM D-4318 **AASHTO T-89**
For determining liquit limit of soil sample.

Type	Parts Name	Specification	Qty
SO-311	**Liquid Limit Device**	Hand operated, brass cup, hard rubber base	1 Set
SO-312	**ASTM Grooving Tool**	Machined steel, head gauge	1 Pc
SO-313	**Cassagrande Grooving Tool**	Brass plate	1 Pc
GE-390	**Thin Box**	Alumunium, 60 gr capacity	12 Pcs
GE-396	**Glass Plate**	Galss, 10 mm thick, 30 x 30 cm	1 Pc
GE-402	**Graduated Cylinder**	100 ml capacity	1 Pc
GE-501	**Porcelain Dish**	12 cm dia., 250 ml capacity	1 Pc
GE-820	**Spatula**	150 mm blade	1 Pc
GE-825	**Scraper**	100 mm blade	1 Pc

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

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Plastic Limit Test Set (SO - 315)

ASTM D-4318 **AASHTO T-90**

For determining plastic limit of soil sample

Type	Parts Name	Specification	Qty
SO-316	**Plastic Limit Plate**	Glass made	
Consist of :			
SO-316.1	**Reference Rod**	Stainless steel rod, 3.2 mm dia.	1 Pc
GE-396	**Glass Plate**	Glass, 10 mm thick, 30 x 30 cm	1 Pc
GE-390	**Thin Box**	Alumunium 60 gr capacity	12 Pcs
GE-402	**Graduated Cylinder**	100 ml capacity	1 Pc
GE-501	**Porcelain Dish**	12 cm dia., 250 ml capacity	1 Pc
GE-820	**Spatula**	150 mm blade	1 Pc
GE-825	**Scraper**	100 mm blade	1 Pc

Dimension (l x w x h) : 40 x 40 x 40 cm
Gross Weight : 5 kg

Shrinkage Limit Test Set (SO - 320)

ASTM D-427 **AASHTO T-92**

For determining shrinkage limit of soil sample

Type	Parts Name	Specification	Qty
SO-321	**Prong Plate**	1.6 mm thick hard plastic, 76.2 mm square, 3 stainless steel needles, 0.8 mm dia., 3.2 mm height	1 Pc
SO-322	**Monel Shrinkage Dish**	Flat bottom, 44,4 mm i.d., 12.7 mm height	1 Pc
SO-323	**Cristalizing Dish**	Glass made	
Consist of :			
SO-323.1	**Dish**	Glass, 57.2 mm i.d., 12,7 mm height approx.	1 Pc
SO-323.2	**Overflow Dish**	9 cm dia. approx.	1 Pc
SO-324	**Mercury**	Bottled	1 kg
GE-396	**Glass Plate**	Glass 10 mm thick, 30 x 30 cm	1 Pc
GE-402	**Graduated Cylinder**	100 ml capacity	1 Pc
GE-502	**Porcelain Dish**	15 cm dia., 350 ml capacity	1 Pc
GE-820	**Spatula**	150 mm blade	1 Pc
GE-825	**Scraper**	100 mm blade	1 Pc

Dimension (l x w x h) : 10 x 10 x 30 cm
Gross Weight : 6 kg

Hydrometer Analysis Test Set (SO - 330A)

ASTM D-422 **AASHTO T-88**

For determining grain size distribution of fine soil sample.

Type	Parts Name	Specification	Qty
SO-331	**Hydrometer A (152 H)**	Glass, stream line, range 0-60 gr soil/ltr	1 Pc
SO-332	**Hydrometer B (151 H)**	Glass, stream line, range 0.995-1.038	1 Pc
SO-333	**Mechanical Stirer**	Electric, 220 V, cast alumunium frame, 10.000 rpm	1 Pc
SO-334	**Dispersion Cup**	Stainless steel cup, 3.75" top dia., 2.6" bottom dia. 7" height brass baffles	1 Pc
SO-335	**Hydrometer Jar Bath**	Steel sheet, fibre glass couted, temperature control	
Consist of :			
SO-335.1	**Bath**	Steel sheet, fibre glass coated, 60 x 30 x 40 cm	1 Pc
SO-335.2	**Water Heater**	Electric, range ambient to 40°C	1 Pc
SO-336	**Dispension Agent**		
Consist of :			
SO-336.1	**Sodium Hexa**	Bottled, powder	1 kg
SO-336.2	**Water Glass**	Bottled, liquid	1 kg
SO-337	**Hydrometer Jar**	Glass, 1000 ml capacity, 2 1/2" dia. approx.	3 Pcs
SO-405	**Graduated Cylinder**	1000 ml capacity	1 Pc
GE-600	**Thermometer**	Range 0 - 50°C	1 Pc

Dimension (l x w x h) : 90 x 90 x 50 cm
Gross Weight : 50 kg

Specific Gravity (Heating Method) (SO - 340)

ASTM D-854 **AASHTO T-100**

For determining specific gravity of soil sample.

Type	Parts Name	Specification	Qty
GE-191	Hot Plate	Electric, 220 V	1 Pc
GE-237	Asbestos Wire Gauze	15 cm x 15 cm	1 Pc
GE-363	Mixing Bowl	Stainless steel, 250 mm dia.	1 Pc
GE-441	Density Bottle	100 ml capacity	3 Pcs
GE-473	Funnel	Glass	1 Pc
GE-521	Wash Bottle	250 ml capacity	1 Pc
GE-601	Thermometer	Range 0 - 100°C	1 Pc

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

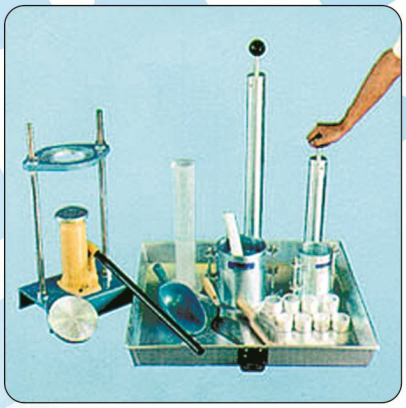
Specific Gravity (Vacuum Method) (SO - 340A)

ASTM D-854 **AASHTO T-100**

For determining specific gravity of soil sample.

Type	Parts Name	Specification	Qty
SO-341	Vacuum Stand	Wooden base, steel pipe column, 2 valves	1 Set
GE-363	Mixing Bowl	Stainless steel, 250 mm dia.	1 Pc
GE-404	Graduated Cylinder	500 ml capacity	1 Pc
GE-412A	Volumetric Flask	500 ml capacity, vacuum	2 Pcs
GE-473	Funnel	Glass, wide mouth	1 Pc
GE-521	Wash Bottle	250 ml capacity	1 Pc
GE-530	Pipette	Glass, 5 ml capacity	1 Pc
GE-600	Thermometer	Range 0 - 50°C	1 Pc
GE-679	Vacuum Manometer	4" dia., 0-76 cn HG	1 Pc
GE-680	Vacuum Pump	Rotary pump	1 Pc

Dimension (l x w x h) : 70 x 70 x 70 cm
Gross Weight : 45 kg



Compaction Test Set (SO - 350)

ASTM D-698 / D-1557 **AASHTO T-99 / T-180**

For determining moisture - dnesity relationship.

Type	Parts Name	Specification	Qty
SO-351	Standard Proctor Mold	Machined steel, galvanized, 4" i.d., 4.584" height, 2" height of collar	1 Pc
SO-352	Modfied Proctor Mold	Machined steel, galvanized, 6" i.d., 4.584" height, 2" height of collar	1 Pc
SO-353	Standard Proctor Hammer	Machined steel, galvanized, 2" i.d., 12" drop height, 5,5 lbs weight	1 Pc
SO-354	Modfied Proctor Hammer	Machined steel, galvanized, 2" i.d., 18" drop height, 10 lbs weight	1 Pc
SO-355	Extruder	Steel frame, hydraulic jack	1 Set
GE-303	Square Pan	Galvanized steel, l 65 x 65 x 7.5 cm	1 Pc
GE-390	Thin Box	Alumunium, 60 gr capacity	12 Pcs
GE-405A	Graduated Cylinder	Plastic, 1.000 ml capacity	1 Pc
GE-801	Scoop	Cast Alumunium	1 Pc
GE-871	Trowel	Pointed type	1 Pc
GE-890	Straight Edge	30 cm length	1 Pc
GE-900	Rubber Mallet	Wooden handle	1 Pc
GE-920	Steel Wiire Brush	Wooden handle	1 Pc

Dimension (l x w x h) : 62 x 62 x 40 cm
Gross Weight : 120 kg

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Laboratory CBR Test Set (SO - 360A)

ASTM D-1883 **AASHTO T-193**

For determining the bearing ratio of soil.

Type	Parts Name	Specification	Qty
SO-361A	Electrical Loading Machine	Electric, 220 V-AC, 1/2 HP, 1 Phase, speed 0.05"/min reversing switch, 10.000 lbs capacity	1 Set
SO-362	CBR Mold	Machined steel, 6" i.d, 7" weight, 2" height of collar	3 Pcs
SO-363	Spacer Dish	Machined steel, 5 15/16" dia., 2.416" height	1 Pc
SO-364	Cutting Edge	Machined steel, sharp edge	1 Pc
SO-365	Circular Surcharge Weight	Machined steel, 5 7/8" o.d., 2 1/8" i.d, 5 lbs weight	3 Pcs
SO-366	Slotted Surcharge Weight	Machined steel, 5 7/8" o.d., 2 1/8" slotted width, 5 lbs weight	3 Pcs

Type	Parts Name	Specification	Qty
SO-354	Modified Proctor Hammer	Machined steel, galvanized, 2" dia., 18" drop height, 10 lbs weight	1 Pc
SO-369	Filter Paper	6" dia., 100 sheet/box	1 Box
GE-101.6	Proving Ring	6.000 lbs capacity	1 Set
GE-131	Dial Indicator	Range 0.01" x 1"	1 Pc
GE-303	Square Pan	Galvanized steel, 65 x 65 x 7.5 cm	1 Pc
GE-390	Thin Box	Alumunium, 60 gr capacity	12 Pcs
GE-405A	Graduated Cylinder	Plastic, 1000 ml capacity	1 Pc
GE-801	Scoop	Cast Alumunium	1 Pc
GE-871	Trowel	Pointed Type	1 Pc
GE-890	Straight Edge	300 mm length	1 Pc

Dimension (l x w x h) : 60 x 60 x 60 cm
Gross Weight : 40 kg

Sand Cone Test Set (SO - 400)

ASTM D-1556 **AASHTO T-191**

For determining the density of compacted soil in place.

Type	Parts Name	Specification	Qty
SO-401	Sand Cone Bottle	Plastic, 4 ltr cap. approx.	1 Pc
SO-402	Sand Cone Funnel	Seamless metal, turning stoper, 6 1/2" dia. bottom, 1/2" neck dia.	1 Pc
SO-403	Base Plate	Cast alumunium, 12" x 12"	1 Pc
SO-404	Graduated Sand	Uncemented sand, passing # 10, retained # 60, 25 kg capacity	1 Zak
GE-380	Sample Can	Round can, tinned metal	6 Pcs
GE-801	Round Scoop	Cast alumunium	1 Pc
GE-861	Spoon	Stainless steel	1 Pc
GE-871	Trowel	Pointed type	1 Pc
GE-880	Chisel	Hardened type	1 Pc
GE-900	Rubber Mallet	Wooden handle	1 Pc

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

Speedy Moisture Tester (SO - 430)

AASHTO T-217

For determining the moisture content of soil by means of calcium carbide gas pressure meter.s

Type	Parts Name	Specification	Qty
SO-432	Speedy Gauge	M/C range 0-20 %, sens.: 0.2%, smple weight 20 gr	1 Pc
SO-434	Speedy Balance	Brass beam, Cast aluminum frame, 10 gr counter balance	1 Pc
SO-435	Calcium Carbide	Calcium Carbide	1 Can
SO-436	Measuring Spoon	Cast alumunium	1 Pc
SO-437	Crushing Ball	Steel ball	2 Pcs
SO-438	Cleaning Brush	Wooden / plastic holder	1 Pc
SO-439	Carrying Case	Wooden Case with handle	1 Pc

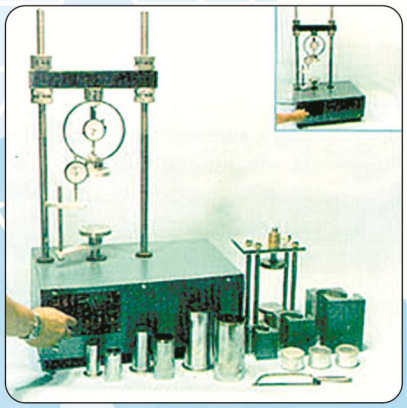
Dimension (l x w x h) : 45 x 45 x 30 cm
Gross Weight : 15 kg

Moisture Content Test Set (SO - 450)

For determining moisture content of soil sample.

Type	Parts Name	Specification	Qty
GE-150	Cent O-Gram Balance	311 gr cap., 0.01 gr sens	1 Pc
GE-174	Drying Oven	53 ltr capacity, internal dimension (l x w x h) 400 x 400 x 330 mm, 220 V, 1400 W	1 Pc
GE-390	Thin Box	Alumunium, 60 gr capacity	12 Pcs
GE-451	Dessicator	Transparant glass, 24 cm dia. approx.	1 Pc

Dimension (l x w x h) : 80 x 80 x 110 cm
Gross Weight : 100 kg



Unconfined Compression Mchine (SO -500A)

ASTM D-2166 **AASHTO T-208**

For determining stress strain relationship of cohesive soil without confining pressure.

Type	Parts Name	Specification	Qty
SO-501A	Unconfined Compression Machine	Electric, 220 V-AC, 200 W, variable speed, adjustable height	1 Set
SO-502	Sample Tubes		
Consist of :			
SO-502.1	Sample Tubes	35.0 mm x 70 mm height	1 Pc
SO-502.2	Sample Tubes	47.5 mm x 95 mm height	1 Pc
SO-502.3	Sample Tubes	70.0 mm x 140 mm height	1 Pc
SO-503	Split Sample Tubes		
Consist of :			
SO-503.1	Split Sample Tubes	35.0 mm x 70 mm height	1 Pc
SO-503.2	Split Sample Tubes	47.5 mm x 95 mm height	1 Pc
SO-503.3	Split Sample Tubes	70.0 mm x 140 mm height	1 Pc
SO-504	Extruder		
Consist of :			
SO-504.1	Extruder	34.5 mm x 71 mm height	1 Pc
SO-504.2	Extruder	47.0 mm x 96 mm height	1 Pc
SO-504.3	Extruder	69.5 mm x 141 mm height	1 Pc
SO-505	Trimmer	Steel frame, 3 tubes size	1 Set
GE-101.1	Proving Ring	100 kg capacity	1 Set
GE-137	Dial Indicator	Range 30 mm x 0.01 mm	1 Pc
GE-390	Thin Box	Alumunium, 60 gr capacity	12 Pcs
GE-840	Wire Saw	10 cm length approx.	1 Pc

Dimension (l x w x h) : 80 x 70 x 100 cm
Gross Weight : 60 kg

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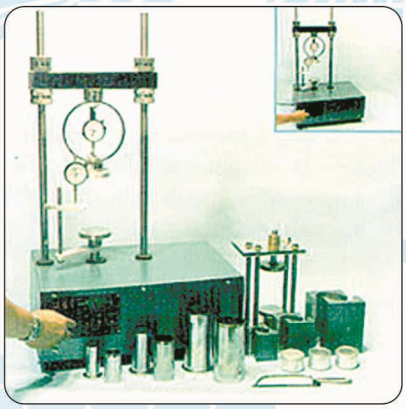


Unconfined Compression Mchine (SO -500A)

ASTM D-2166 **AASHTO T-208**

For determining stress strain relationship of cohesive soil without confining pressure.

Type	Parts Name	Specification	Qty
SO-501A	**Unconfined Compression Machine**	Electric, 220 V-AC, 200 W, variable speed, adjustable height	1 Set
SO-502	**Sample Tubes**		
Consist of :			
SO-502.1	**Sample Tubes**	35.0 mm x 70 mm height	1 Pc
SO-502.2	**Sample Tubes**	47.5 mm x 95 mm height	1 Pc
SO-502.3	**Sample Tubes**	70.0 mm x 140 mm height	1 Pc
SO-503	**Split Sample Tubes**		
Consist of :			
SO-503.1	**Split Sample Tubes**	35.0 mm x 70 mm height	1 Pc
SO-503.2	**Split Sample Tubes**	47.5 mm x 95 mm height	1 Pc
SO-503.3	**Split Sample Tubes**	70.0 mm x 140 mm height	1 Pc
SO-504	**Extruder**		
Consist of :			
SO-504.1	**Extruder**	34.5 mm x 71 mm height	1 Pc
SO-504.2	**Extruder**	47.0 mm x 96 mm height	1 Pc
SO-504.3	**Extruder**	69.5 mm x 141 mm height	1 Pc
SO-505	**Trimmer**	Steel frame, 3 tubes size	1 Set
GE-101.1	**Proving Ring**	100 kg capacity	1 Set
GE-137	**Dial Indicator**	Range 30 mm x 0.01 mm	1 Pc
GE-390	**Thin Box**	Alumunium, 60 gr capacity	12 Pcs
GE-840	**Wire Saw**	10 cm length approx.	1 Pc

Dimension (l x w x h) : 80 x 70 x 100 cm
Gross Weight : 60 kg

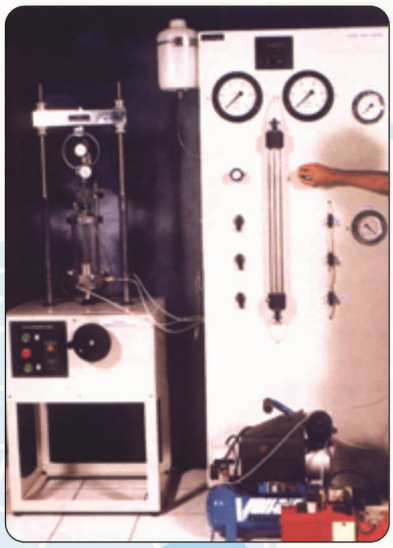
Electric Direct Shear Test Set (SO - 525A)

ASTM D-3080 **AASHTO T-236**

For determining shearing resistance of soil sample.
Voltage : 220V, variable speed

Type	Specification		Qty
SO-526	**Loading Machine**		
Consist of :			
SO-526.1	**Frame**	Welded steel frame	1 Pc
SO-526.2	**Loading Hanger**	Machined steel, galvanized, supplied without load	2 Pc
SO-527	**Shear Box**	Cast alumunium box, 63.5 mm sample dia., porous stone, loading cap.	1 Set
SO-523	**Loads**	Slotted, machined steel, galvanized	
Consist of :			
SO-523.1	**Load**	3.167 gr weight	2 Pcs
SO-523.2	**Load**	6.334 gr weight	1 Pc
SO-524	**Sample Tube**	Machine steel, 63.5 mm dia., galvanized, with extruder	1 Set
GE-101.1	**Proving Ring**	100 kg capacity	1 Pc
GE-135	**Dial Indicator**	Range 10.0 mm x 0.01 mm	1 Pc
GE-136	**Dial Indicator**	Range 20.0 mm x 0.01 mm	1 Pc
GE-840	**Wire Saw**	10 cm length approx.	1 Pc

Dimension (l x w x h) : 135 x 55 x 135 cm
Gross Weight : 127 kg



Triaxial Test Set (SO - 550)

ASTM D-2850

The Triaxial Test Set provides test Load up to 1000 kgf (1 ton) at any speed 0,00 mm to 5.00 mm per minute. This feature provides the capability for use in application such as constant rate of load and constant rate of stress. Measuring and single switch for loading or unloading of sample making it extremely easy to use. A moveable cross head allow a wide range of sample sizes to be tested with simple adjustment. Ideal for UU, CD and CU test version.

Specification

Load Capacity	: 1000 kgf (1 ton)
Loading Speed	: 0.00 to 5.00 mm per minute
Cell (speciment) size	: dia. 38 mm & dia. 50 mm
Control	: Power ON-OFF Switch Load-Stop-Unload by Selector Switch
Power	: AC-220 V / 150 W

Overall Dimension	: 210 x 160 x 80 cm
Gross Weight	: 130 Kg

Dutch Cone Penetrometer (SO - 200)

ASTM D-3441

For determining cone resistance and friction resistance of soil layers.

Type	Parts Name	Specification	Qty
SO-201	**Press-in Apparatus**	Steel construction, manually operated 2.5 tons capacity	1 Set
SO-202A	**Sounding Rod**	Machined steel, 36 mm o.d., 1 mtr effective length, tappered thread	20 Pcs
SO-203	**Inner Rod**	Round bar, 15 mm dia, 1 mtr length	20 Pcs
SO-204	**Adaptor**		
Consist of			
SO-204.1	**Push Adaptor**	Machined steel	1 Pc
SO-204.2	**Pull Adaptor**	Machined steel	1 Pc
SO-205	**Spiral Anchor**		
Consist of			
SO-205.1	**Spiral Anchor**	Machined steel, elded 1.5 mtr length	4 Pcs
SO-205.2	**Handle and T-piece**	Machined steel, welded	1 Set
SO-206A	**Mantel cone**	Precision machined steel, hardened, tappered thread, 60° angle, 35.7 mm dia.	1 Pc
SO-207A	**Friction cone**	Precision machined steel, hardened, with friction jacket, tappered thread, 60° angle, 35.7 mm dia.	
SO-208	**Wrenches Set**	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 (1)	1 Set
SO-209	**Fasten Press**	Beam Cannal	
Consist of			
SO-209.1	**Long Fasten Press**	1.5 mtr length, 8 cm width	2 Pcs
SO-209.2	**Short Fasten Press**	1 mtr length, 12 cm width	2 Pcs
GE-671	**Manometer**	60 kg/cm^2 capacity	1 Pc
GE-673	**Manometer**	250 kg/cm^2 capacity	1 Pc

Dimension (l x w x h)	: 220 x 120 x 80 cm
Gross Weight	: 460 kg

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Hydraulic Dutch Cone Penetrometer 50 kN 5 Ton Capacity (SO-720)

This Penetrometer is mainly used for Soil investigation in place. The Penetration rod is pressed in the soil by hydraulic pump, driver by Gasoline Engine.

Accessories

SO-720.1	Hydraulic Dutch Cone Penetrometer	5 ton capacity	1 unit
SO-720.2	Hydraulic Pump	driver by gasoline engine hand starter	1 unit
SO-720.3	Sounding Rod & Plunger	50 cm length	40 pcs
SO-720.4	Push and Pull Adaptor		1 set
SO-720.5	Spiral Anchor	25 cm dia.	4 pcs
SO-720.6	Mantle Cone	60 deg tip	1 pc
SO-720.7	Friction Cone	60 deg tip	1 pc
SO-720.8	Handle and T-Piece		1 set
SO-720.9	Wrench Set		1 box
SO-720.10	Long Fasten Press		2 pcs
SO-720.11	Short Fasten Press		2 pcs
SO-720.12	Manometer	60 Kg/cm^2	1 pc
SO-720.13	Manometer	500 Kg/cm^2	1 pc

Mobile Laboratory Soil Testing (BT-710)

Peralatan Mobile Soil Test

Dutch Cone Penetrometer	1 set
Field CBR	1 set
Laboratory CBR	1 set
Unconfined	1 set
Hydrometer	1 set
Sieve	28 pcs
Sieve Shaker	1 set
After Berg Limit	1 set
Permeability	1 set
Compaction	1 set
Sand Cone	1 set
Hand Bor	1 set
Speedy	1 set
DCP	1 set
Specific Gravity	1 set

Sample Splitter (AG-100)

For deviding dry material such as gravel and sand.

Type	Parts Name	Specification
AG-100	Sample Splitter	Stainless steel, chute width 1/2", 12 holes, supplied complete with scoop and pans.
AG-101	Sample Splitter	Stainless steel, chute width 3/2", 12 holes, supplied complete with scoop and pans.
AG-102	Sample Splitter	Stainless steel, chute width 1", 12 holes, supplied complete with scoop and pans.
AG-103	Sample Splitter	Stainless steel, chute width 1-1/2", 8 holes, supplied complete with scoop and pans.
AG-104	Sample Splitter	Stainless steel, chute width 2", 8 holes, supplied complete with scoop and pans.
AG-105	Sample Splitter	Stainless steel, chute width 2-1/2", 8 holes, supplied complete with scoop and pans.
AG-106	Sample Splitter	Stainless steel, chute width 3", 8 holes, supplied complete with scoop and pans.

Dimension (l x w x h) : 65 x 40 x 40 cm
Gross Weight : 15 kg

Brass Round Sieve (AG-200)

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

Type	Parts Name	Specification
AG-200 A	Sieve 4"	Mesh 101.6 mm opening
AG-201 A	Sieve 3 1/2"	Mesh 88.9 mm opening
AG-202 A	Sieve 3"	Mesh 76.2 mm opening
AG-203 A	Sieve 2 1/2"	Mesh 62.5 mm opening
AG-204 A	Sieve 2"	Mesh 50.8 mm opening
AG-205 A	Sieve 1 3/4"	Mesh 44.4 mm opening
AG-206 A	Sieve 1 1/2"	Mesh 38.1 mm opening
AG-207 A	Sieve 1 1/4"	Mesh 31.7 mm opening
AG-208 A	Sieve 1"	Mesh 25.4 mm opening
AG-209 A	Sieve 7/8"	Mesh 22.2 mm opening
AG-210 A	Sieve 3/4"	Mesh 19.0 mm opening
AG-211 A	Sieve 5/8"	Mesh 15.8 mm opening
AG-212 A	Sieve 1/2"	Mesh 12.7 mm opening
AG-213 A	Sieve 7/16"	Mesh 11.1 mm opening
AG-214 A	Sieve 3/8"	Mesh 9.5 mm opening
AG-215 A	Sieve 5/16"	Mesh 7.9 mm opening
AG-216 A	Sieve 1/4"	Mesh 6.3 mm opening
AG-218 A	Sieve # 4	Mesh 4.75 mm opening
AG-222 A	Sieve # 8	Mesh 2.36 mm opening
AG-223 A	Sieve # 10	Mesh 2.00 mm opening
AG-224 A	Sieve # 12	Mesh 1.70 mm opening
AG-226 A	Sieve # 16	Mesh 1.18 mm opening
AG-228 A	Sieve # 20	Mesh 0.850 mm opening
AG-230 A	Sieve # 30	Mesh 0.600 mm opening
AG-232 A	Sieve # 40	Mesh 0.425 mm opening
AG-234 A	Sieve # 50	Mesh 0.300 mm opening
AG-235 A	Sieve # 60	Mesh 0.250 mm opening
AG-236 A	Sieve # 70	Mesh 0.212 mm opening
AG-237 A	Sieve # 80	Mesh 0.180 mm opening
AG-238 A	Sieve # 100	Mesh 0.150 mm opening
AG-239 A	Sieve # 120	Mesh 0.125 mm opening
AG-240 A	Sieve # 140	Mesh 0.106 mm opening
AG-241 A	Sieve # 170	Mesh 0.090 mm opening
AG-242 A	Sieve # 200	Mesh 0.075 mm opening
AG-250	Pand & Cover	

Dimension (l x w x h) : 22 x 22 x 6.5 cm
Gross Weight : 0.75 kg

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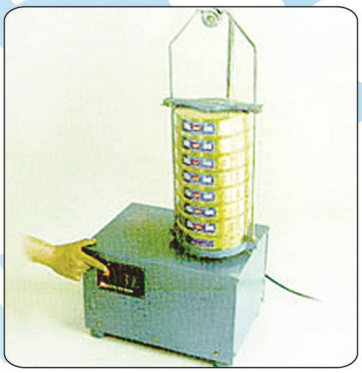
Stainless Steel Round Sieve (AG-300)

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

Type	Parts Name	Specification
AG-300 A	Sieve 4"	Mesh 101.6 mm opening
AG-301 A	Sieve 3 1/2"	Mesh 88.9 mm opening
AG-302 A	Sieve 3"	Mesh 76.2 mm opening
AG-303 A	Sieve 2 1/2"	Mesh 62.5 mm opening
AG-304 A	Sieve 2"	Mesh 50.8 mm opening
AG-305 A	Sieve 1 3/4"	Mesh 44.4 mm opening
AG-306 A	Sieve 1 1/2"	Mesh 38.1 mm opening
AG-307 A	Sieve 1 1/4"	Mesh 31.7 mm opening
AG-308 A	Sieve 1"	Mesh 25.4 mm opening
AG-309 A	Sieve 7/8"	Mesh 22.2 mm opening
AG-310 A	Sieve 3/4"	Mesh 19.0 mm opening
AG-311 A	Sieve 5/8"	Mesh 15.8 mm opening
AG-312 A	Sieve 1/2"	Mesh 12.7 mm opening
AG-313 A	Sieve 7/16"	Mesh 11.1 mm opening
AG-314 A	Sieve 3/8"	Mesh 9.5 mm opening
AG-315 A	Sieve 5/16"	Mesh 7.9 mm opening
AG-316 A	Sieve 1/4"	Mesh 6.3 mm opening
AG-318 A	Sieve # 4	Mesh 4.75 mm opening
AG-322 A	Sieve # 8	Mesh 2.36 mm opening
AG-323 A	Sieve # 10	Mesh 2.00 mm opening
AG-324 A	Sieve # 12	Mesh 1.70 mm opening
AG-326 A	Sieve # 16	Mesh 1.18 mm opening
AG-328 A	Sieve # 20	Mesh 0.850 mm opening
AG-330 A	Sieve # 30	Mesh 0.600 mm opening
AG-332 A	Sieve # 40	Mesh 0.425 mm opening
AG-334 A	Sieve # 50	Mesh 0.300 mm opening
AG-335 A	Sieve # 60	Mesh 0.250 mm opening
AG-336 A	Sieve # 70	Mesh 0.212 mm opening
AG-337 A	Sieve # 80	Mesh 0.180 mm opening
AG-338 A	Sieve # 100	Mesh 0.150 mm opening
AG-339 A	Sieve # 120	Mesh 0.125 mm opening
AG-242 A	Sieve # 200	Mesh 0.075 mm opening
AG-350	Pand & Cover	

Dimension (l x w x h) : 22 x 22 x 6.5 cm
Gross Weight : 0.75 kg



Electric Sieve Shaker (AG-515)

Electric, 220 V-AC, 200 Watt, steel base, cast alumunium 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

Sand Equivalent Test Set (AG-600)

ASTM D-2419 **AASHTO T-176**

For indicating relative proportion of clay like material and fine dust in granular soil or graded aggregate.

Type	Parts Name	Specification	Qty
AG-601	Graduated Cylinder	Transparent fibre glass, 1 1/4" i.d, 1 1/2" o.d 17" height, with scale.	2 Pcs
AG-602	Stoper Assembly	Rubber Stoper, irrigation tube, hose, sypon.	1 Set
AG-603	Weight FootAssembly	Machine steel, galvanized, 1000 gr weight, sand reading indicator.	1 Set
AG-604	Stock Solution	Calcium cloride, glyserin and formaldehyde solution. Supplied in a plastic container (1 ltr).	1 Btl
AG-605	Carrying Case	Wooden case with handle	1 Pc
GE-390	Thin Box	Alumunium 60 gr capacity	2 Pcs
GE-470	Funnel	Plastic, narrow mouth	1 Pc

Dimension (l x w x h) : 70 x 50 x 20 cm
Gross Weight : 20 kg

Sand Equivalent Shaker (AG-610)

ASTM D-2419 **AASHTO T-176**

To give greater uniformity action, hand operated mounting bracket with cylinder holder, two spring steel strapes, built in counter, wooden case. Supplied without graduated cylinder.

Dimension (l x w x h) : 60 x 30 x 90 cm
Gross Weight : 20 kg

Los Angeles Abrassion Machine (AG-700)

ASTM C-131 **AASHTO T-96**

For measuring degradation of mineral aggregates from abrassion, impact and grinding.

Type	Parts Name	Specification	Qty
AG-701	Los Angeles Abrassion Machine		1 Set
	Frame	Welded steel frame, 8 and 12 cm (steel profile)	
	Drum	1/2" thick steel plate 28" inner diameter 20" inner width	
	Automatic Counter	Digital, module system for easy maintenance Panel button: ON-OFF-RESET-500-1000	
	Power	Electromotor, dual voltage 110-220 V, 750 Watt, 1 Ph, Heavy duty speed reducer.	
	Drum Speed	30-33 RPM	
AG-702	Steel Ball	Steel 1 7/8" diameter	12 Pcs
AG-703	Catching Pan	Galvanized steel	1 Pc

Dimension (l x w x h) : 120 x 100 x 150 cm
Gross Weight : 450 kg

Absorption of Fine Aggregate Test Set (AG-810A)

ASTM C-128 **AASHTO T-84**

For determining the water absorption of fine aggregate at saturated surface dry.

Type	Parts Name	Specification	Qty
AG-811	Cone and Tamper		
Consist of :			
AG-811.1	Cone	Brass, 40 mm i.d at the top, 90 mm i.d at the bottom, 75 mm height.	1 Pc
AG-811.2	Tamper	Machine steel, galvanized, 340 gr weight, 25 mm dia.	1 Pc
GE-363	Mixing Bowl	Stainless steel, 25 cm dia.	1 Pc
GE-396	Glass Plate	10 mm thick, 30 x 30 cm	1 Pc
GE-412	Velometric Flask	500 ml capacity	1 Pc
GE-820	Spatula	Plastic handle	1 Pc

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

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Specific Gravity & Absorption of Coarse Aggregate Test Set (AG-830)

ASTM C-127 **AASHTO T-85**

For determining specific gravity and water absorption of coarse aggregate.

Type	Parts Name	Specification	Qty
AG-831	**Dunagan Balance**		
Consist of :			
AG-831.1	**Mounting Table**	Welded steel table, elevated container support.	1 Set
AG-831.2	**Water Container**	Galvanized container, 20 ltr capacity.	1 Pc
GE-161	**Balance**	Digital balance, 220 V, 6100 gr x 0.1 gr capacity.	1 Pc
AG-822	**Sample Basket**	# 8 mesh, 200 mm dia., 200 mm height.	1 Pc

Dimension (l x w x h) : 85 x 50 x 120 cm
Gross Weight : 50 kg

Organic Impurities Test Set (AG-910)

ASTM C-40 **AASHTO T-21**

For an approximate determination of organic compound in sand.

Type	Parts Name	Specification	Qty
AG-911	**Glass Bottle**	350 ml cap., graduated glass with stoper	1 Pc
AG-912	**Stock Solution**	Sodium hydroxide solution (NaOH), 1 litre	1 Btl
AG-913	**Standard Colour Chart**	5 Standard colour	1 Pc

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

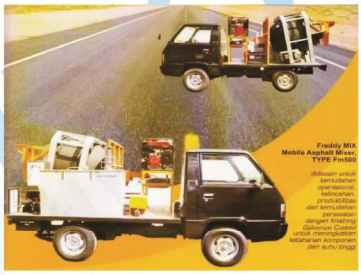
Soundness Test Set (AG-920)

ASTM C-88 **AASHTO T-104**

For determining aggregate resistance to desintegration by saturated solution of sodium sulfate or magnesium sulfate.

Type	Parts Name	Specification	Qty
AG-921	**Stock Solution**	Sodium sulphate solution (Na_2SO_4), 1 litre	1 Btl
GE-363	**Mixing Bowl**	Stainless steel, 24 cm dia.	1 Pc
GE-424	**Breaker Glass**	1000 ml capacity	1 Pc
GE-600	**Thermometer**	Glass, 0 - 100°	1 Pc

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



Mobile Asphalt Mixer (BT-300)

Peralatan Mobile Mixer

1.Unit Mobil Pick-Up
2.Unit Power Generator
3.Unit Burner
4.Unit Tabung Mixer
5.Unit Pemutar T.Mixer
6.Unit Gear Pump
7.Unit Inlet & Outlet
8.Unit Gear Pump
9.Unit Control
10.Termometer
11.Unit Bak Pemanas Aspal
12.Unit Burner

Peralatan Mesin BOR (BT-500)

Kepastian Kedalaman Sampai Dengan 120 Meter :

*** 1 Mesin Bor**
*** 1 Motor Penggerak**
*** Pompa Tekan dan selang**
*** Road AW**
*** Cashing**
*** Mata Bor**
*** Tripod**
*** Tabung dan Core Barrel**

Specific Gravity of Hydraulic Cement Test (CE-110)

ASTM C-188 **AASHTO T-133**

For determining specific gravity of hydraulic cement

Type	Parts Name	Specification	Qty
CE-111	Le Chatelier Flask	250 ml cap., the neck graduated 0-1 ml and 15-24 ml	1 Pc
CE-112	Kerosene	Deaired kerosene	1 Ltr
GE-473	Funnel	Glass, narrow mouth	1 Pc
GE-521	Wash Bottle	Plastic, 250 ml capacity	1 Pc
GE-530	Pipette	Glass, 5 ml capacity	1 Pc
GE-600	Thermometer	Glass, 0-50°C	1 Pc
GE-820	Spatula	150 mm blade length	1 Pc
GE-922	Soft Brush	Round type	1 Pc

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

Time of Setting of Hydraulic Cement by Vicat Needle (CE-120)

ASTM C-187/C-191 **AASHTO T-129/T-133**

For determining normal consistency and time of setting of hydraulic cement

Type	Parts Name	Specification	Qty
CE-121	Vicat Apparatus	Cast alumunium frame, stainless steel rod 10 mm dia., 300 gr. weight with needle, 0-50 mm scale	1 Pc
CE-123	Initial Needle	Steel needle, 1 mm dia., with footing, brass thread	1 Pc
CE-124	Final Needle	Steel needle, 1 mm dia., brass thread	1 Pc
CE-125	Conical Ring Mold	70 mm base dia., 60 mm top dia., 40 mm height	1 Pc
CE-126	Glass Plate	Glass, 10 mm thich, 12 x 12 cm	1 Pc

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

Compressive Strength of Hydraulic Cement Mortar (CE-160A)

ASTM C-109 **AASHTO T-106**

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

Type	Parts Name	Specification	Qty
CE-161 A	Cement Cube Mold	Cast iron, 3 gang, 2" x 2"	1 Pc
CE-162 A	Flow Table	Electric, 100 rpm, 200 volt, 100 watt, 1 phase	
Consist of:			
CE-162A.1	Frame	Welded frame, brass table, 10" dia., 0.3" thick, 1/2"	
drop	1 Pc		
CE-162A.2	Flow Mold	Brass, base 101.6 mm dia., top 69.85 mm dia., top 69.85 mm dia., height 50.8 mm	1 Pc
GE-713	Vernier Caliper	300 mm capacity	1 Pc
CE-168	Tamper	Plastic, 1/2" x 1" face, 6" strength	1 Pc
GE-396	Glass Plate	Glass, 10 mm thick, 30 x 30 cm	1 Pc
GE-403	Graduated Cylinder	Glass, 250 ml capacity	1 Pc
GE-825	Scraper	Plastic handle	1 Pc

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

Compression Machine (CE-170)

ASTM C-109

For determining compressive strength of cement mortar
For sample size 2" x 2" x 2" cube or 2" dia. x 4" height cylinder.
Steel frame, 12" dia. force gauge (calibrated). Hand operated hydraulic pump, 100 kN capacity.

Dimension (l x w x h) : 50 x 50 x 80 cm
Gross Weight : 150 kg

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Concrete Cylinder Mold (CO-300)

Cast iron, for forming concrete cylinder sample

Type	Parts Name	Specification
CO-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 : 12 kg / 17 kg

Concrete Beam Mold (CO-317A)

Cast iron, for forming concrete beam sample

Type	Parts Name	Specification
CO-317A	**Concrete Beam Mold**	15 x 15 x 60 cm
CO-319A	**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 : 40 kg / 60 kg

Concrete Cube Mold (CO-312)

Cast iron, for forming concrete cube sample

Type	Parts Name	Specification
CO-312	**Concrete Cube Mold**	15 x 15 x 15 cm

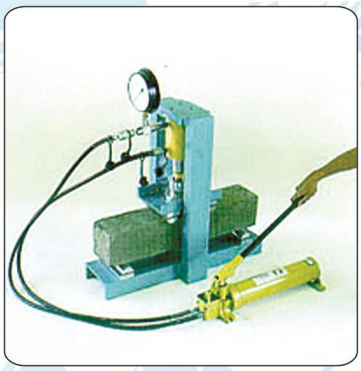
Dimension (l x w x h) : 20 x 20 x 15 cm / 25 x 25 x 20 cm
Gross Weight : 14 kg / 19 kg

Compression Machine (CO-325)

ASTM C-39

For determining compressive strength of concrete cube 15 x 15 x15 cm or concrete cylinder 15 cm dia. x 30 cm height

Parts Name	Specification
Frame	Heavy-duty welded steel construction 30 cm profile steel columns 10 thick bottom 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 280 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 300 mm dia. x 320 mm height Single action, gravity return
Hydraulic System for 3000 kN Cap.	Mild-Steel 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 Phase Single action, variable speed 6.000 ml reservoir capacity Maximum working pressure 50.000 kPa Single action, gravity return



Hydraulic Concrete Beam Testing Machine (CO-330)

ASTM C-78

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

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

Compacting Factor Apparatus (CO-355)

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	:	75 kg

Slump Test Set (CO-370)

ASTM C-143 **AASHTO T-119**

For determining slump/workability of concrete both in the laboratory and in the field

Type	Parts Name	Specification	Qty
CO-371	Slump Cone	Heavy gauge sheet steel, 4" top dia., 8" bottom dia., 12" height	1 Pc
CO-372	Inspection Scale	Machine steel, 0-10 cm slump measurement, 1 cm increment	1 Pc
CO-375	Base Plate	Steel sheet, carryng handle, 600 x 600 x 5 mm	1 Pc
GE-801	Scoop	Cast alumunium	1 Pc
GE-871	Trowel	Pointed type	1 Pc
GE-920	Brush	Steel wire	1 Pc
GE-930	Tamping Rod	Machine steel, galvanized 16 mm dia., 600 mm length	1 Pc

Dimension (l x w x h)	:	70 x 70 x 50 cm
Gross Weight	:	30 kg

Vebe Time (CO-380)

BS-1881

This method mechanised variation of the slump test and includes a determinaton of the workability of concrete

Type	Parts Name	Specification	Qty
CO-381	Vibro Consistometer	Electric, 220 V, 50 Hz, 1 Phase, 200 Watt	1 Set
GE-700	Stop Watch	60 sec.sweep x 30 min	1 Pc
GE-801	Scoop	Cast alumunium	1 Pc
GE-930	Tamping Rod	Machine steel, galvanized 16 mm dia., 600 mm length	1 Pc

Dimension (l x w x h)	:	40 x 40 x 100 cm
Gross Weight	:	25 kg

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Air Content of Fresh Mixed Concrete (CO-400)

ASTM C-231 **AASHTO T-152**

For determining the air content of freshly mixed concrete from observation of the change in volume of concrete with a change in pressure.

Type	Parts Name	Specification	Qty
CO-401	Air Entrainment Meter	5 ltr capacity, 3" maximum agregate size, direct reading 0-10%, manometer, hand pump	1 Pc
CO-402	Carryng Case	Wooden box	1 Pc
GE-801	Scoop	Cast alumunium	1 Pc
GE-871	Trowel	Pointed type	1 Pc
GE-891	Straight Edge	40 cm length	1 Pc
GE-900	Rubber Mallet	Rubber head, wooden handle	1 Pc
GE-920	Brush	Steel wire	1 Pc
GE-930	Tamping Rod	Machine steel, galvanized 16 mm dia., 600 mm length	1 Pc

Dimension (l x w x h) : 40 x40 x 100 cm
Gross Weight : 20 kg

Vibrating Table (CO-410)

Steel construction 50 x 50 cm table Separated control box, variabel 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 : 70 kg

Vertical Cylinder Capping Set (CO-470)

ASTM C-617

Equipment for forming caps on ends of 15 cm diameter concrete cylinder to provide uniform loading surface for compression test.

Type	Parts Name	Specification	Qty
CO-471	Vertical Cylinder Capper	Cast alumunium frame, rotating ground table, for 150 mm dia. concrete cylinder	1 Pc
CO-472	Capping Compound Warmer	Approx. 3 ltr cap, heating temperature up to 200°C, 220 V-AC	1 Pc
CO-473	Capping Ladle	Stainless steel ladle, Wooden handle	1 Pc
CO-474	Cylinder Carrier	Double handle, snap clamp, for 150 mm dia., concrete cylinder	1 Pc
CO-475	Capping Compound	Powder, approx. 115°C Pouring temperature	25 kg

Dimension (l x w x h) : 100 x 60 x 60 cm
Gross Weight : 35 kg

Modulus of Elasticity in Concrete Test Set (CO-500)

For measuring average axial deformation of concrete cylindrical sample during compression test, cast alumunium, dial indicator 0.001 x 5 mm

Dimension (l x w x h) : 30 x 30 x 35 cm
Gross Weight : 5 kg

Concrete Test Hammer (CO-550)

ASTM C-805

For rapid quality control of concrete works, with built in pointer scale and graph for various angle

Dimension (l x w x h)	:	15 x 15 x 40 cm
Gross Weight	:	2 kg

Calibration Anvil (CO-555)

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	:	30 kg

Laboratory Concrete Mixer (CO-610)

For mixing trial bathes of concrete for mix design. Approx. 70 ltr cap., 4 mixing blades, welded steel frame, 2 wheels for easy movement, electromotor 1/3 HP, 220 V-AC, 1 Phase.

Also required, but not part of this

GE-159	Platform Scale
GE-303	Square Pan
GE-405A	Plastic Graduated Cylinder
GE-871	Trowel

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

Mobile Laboratory Concreete Testing (BT-720)

Peralatan Concreete Mobile Test

Send Equivalent	**1set**	**Arbsorption of Finest Aggregate**	**1set**
Dunagan	**1set**	**Impact**	**1set**
Concreete Testing Machine	**1set**	**Specivic Gravity of Cement**	**1set**
Cube Mold	**1set**	**Vicat**	**1set**
Cylinder Mold	**1set**	**Mortar Cement**	**1set**
Slump Test	**1set**	**Concreete Beam**	**1set**
Air Meter	**1set**		
Sample Splilter	**1set**		
Concreete Test Hammer	**1set**		
Bulik Denity	**1set**		
Organic Impurities	**1set**		
Soundness	**1set**		

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Specific Gravity of Semi-Solid Bituminous Materials (BI-100A)

ASTM D-70 **AASHTO T-228**

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

Type	Parts Name	Specification	Qty
BI-101	**Picnometer**	Hubbart type, 24 ml capacity	1 Pc
BI-102	**Picnometer**	Hubbart type, 25 ml capacity	1 Pc
GE-642	**Thermometer**	ASTM 63 C, 8-32°C	1 Pc

Also required, but not part of this set

GE-191	Hot Plate
GE-363	Mixing Bowl
GE-473	Funnel

Dimension (l x w x h) : 20 x 20 x 20 cm
Gross Weight : 3 kg

Distilation of Cutback Asphalt (BI-110A)

ASTM D-402 **AASHTO T-78**

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

Type	Parts Name	Specification	Qty
BI-111	**Flask**	Heat resistance glass 500 ml capacity, with side arm	1 Set
BI-112	**Condenser**	Glass, jacketed	1 Set
BI-113	**Adapter**	Heat resistance glass	1 Set
BI-114	**Shield**	Metal, asbestos lined, glass window	1 Set
BI-115	**Shield and Flask Support**	Variable height adjustment	1 Set
BI-116	**Support and Clamp**	Metal, provided with clamps	1 Set
GE-230	**Bunsen Burner**	Heat resource	1 Pc
GE-237	**Asbestos Wire Gauze**	15 x 15 cm	1 Pc
GE-402	**Graduated Cylinder**	100ml Capacity	1 Pc
GE-649.1	**Thermometer**	ASTM 7 C, 2 to 300°C	1 Pc

Dimension (l x w x h) : 10 x 80 x 80 cm
Gross Weight : 10 kg

Water Content in Petroleum Products (BI-120)

ASTM D-95 **AASHTO T-55**

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

Type	Parts Name	Specification	Qty
BI-121	**Flask**	Heat resistance glass, 500 ml capacity	1 Pc
BI-122	**Water Trap**	Glass for receiving distilated water	1 Pc
BI-123	**Condenser**	Glass, jacketed	1 Pc
BI-124	**Support Assembly**	For holding apparatus assembly	1 Set
BI-125	**Flask Support**	Variable height adjustment	1 Pc
GE-230	**Bunsen Burner**	Heat resource	1 Pc
GE-237	**Asbestos Wire Gauze**	15 x 15 cm	1 Pc

Dimension (l x w x h) : 25 x 25 x 60 cm
Gross Weight : 10 kg

Saybolt Viscosimeter (BI-150A)

ASTM D-88 **AASHTO T-72**

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

Type	Parts Name	Specification	Qty
BI-151	Viscosimeter	Stainless steel bath, motor stirer, 220 V-AC, Thermostat control panel, 2 tubes capacity	1 Set
BI-154	Viscosimeter Tube	Brass, seamless, provided with tips and tip wrench	2 Pcs
BI-155	Tube Wrench	T-wrench	1 Pc
BI-156	Pipet	Brass with rubber bulb	1 Pc
BI-157	Thermometer Support	Alumunium plate	2 Pcs
BI-158	Flask	60 ml capacity	2 Pcs
BI-159	Funnel	Brass, 60°angle, complete with mesh 100 / mesh 200	1 Pc
GE-644.1	Thermometer	ASTM 17 C, 19 to 27°C	2 Pcs
GE-644.2	Thermometer	ASTM 18 C, 34 to 42°C	2 Pc
GE-644.3	Thermometer	ASTM 19 C, 49 to 57°C	2 Pcs
GE-644.4	Thermometer	ASTM 20 C, 57 to 65°C	2 Pc
GE-644.5	Thermometer	ASTM 21 C, 79 to 87°C	2 Pcs
GE-644.6	Thermometer	ASTM 22 C, 95 to 103°C	2 Pc

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

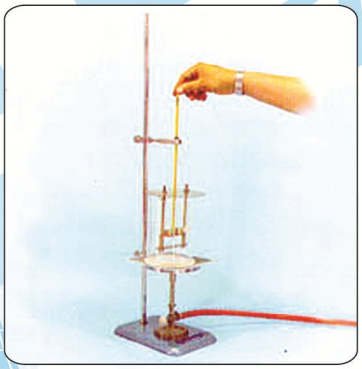
Flash And Fire Point By Cleveland Open Cup (BI-200A)

ASTM D-92 **AASHTO T-48**

For determining flash and fire point by Cleveland open cup for petroleum product and other liquids, expect fuel oils and materials having an open flash point below 79° C (173° F) as determined by cleveland open cup tester

Type	Parts Name	Specification	Qty
BI-201	Flash Cup	Brass, insulation handle	1 Pc
BI-202A	Cleveland Electric	Electric, 220 V-AC, heating speed control	1 Set
GE-648	Thermometer	ASTM 11° C, 6 to 400°C	1 Pc

Dimension (l x w x h) : 100 x 50 x 50 cm
Gross Weight : 20 kg



Softening Point Test Set (BI-210A)

ASTM D-36 **AASHTO T-53**

For determining softening point of asphalt and tar using the ring and ball method

Type	Parts Name	Specification	Qty
BI-211	Shouldered Ring Assembly	Machined brass, height adjustment	1 Set
BI-212	Standard Ball	Steel ball, 9.52 mm dia.	2 Pcs
BI-213	Flash Support	Mesh wire gauze variable height adjustment	1 Set
BI-214	Support Assembly	Metal, provided with thermometer holder	1 Set
GE-230	Bunsen Burner	Heat resources	1 Pc
GE-237	Asbestos Wire Gauze	15 x 15 cm	1 Pc
GE-424	Beaker Glass	1000 ml capacity	1 Pc
GE-646.1	Thermometer	ASTM 15 C, 2 to 80°C	1 Pc

Dimension (l x w x h) : 90 x 30 x 30 cm
Gross Weight : 10 kg

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Laboratory Penetration Test Set (BI-230A)

ASTM D-5 **AASHTO T-49**

For determining consistency of bituminous materials

Type	Parts Name	Specification	Qty
BI-231A	**Penetrometer**	Electric control box, 220 V-AC variable timer, ON-OFF and START switch for automatic plunger release cast alumunium frame, 4 1/2" dial indicator, 400 x 0.1 mm dial, knob control : manual + electric weight of needle and plunger : 50 gr.	1 Set
BI-232	**Penetration Needle**	Steel needle with brass shank, 1 mm dia.	2 Pcs
BI-233	**Transfer Dish**	Glass, 100 mm i.d approx.	1 Pc
GE-390	**Thin box**	55 mm i.d approx, alumunium sheet, seamless	2 Pcs

Dimension (l x w x h) : 50 x 53 x 70 cm
Gross Weight : 25 kg

Ductility of Bituminous Material Test Set (BI-250)

ASTM D-113 **AASHTO T-51**

For determining ductility of formed asphalt/cement or semi solid bitument by measuring distance of elongation before breaking point when two end of briquet are pulled a part at a apecific speed and temperature.

Type	Parts Name	Specification	Qty
BI-251	**Ductility Mold**	Form sample shape and hold end during test, made of brass, provided with base	1 Set
BI-253	**Ductility Machine**	Electric 220 V-AC, stainless steel bath, provided with temperature control. Pulling speed: 5 cm/min Travel range: 150 cm	1 Set

Dimension (l x w x h) : 244 x 80 x 80 cm
Gross Weight : 150 kg

Centrifuge Extractor Test Set (BI-300A)

ASTM D-2172 **AASHTO T-164**

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

Type	Parts Name	Specification	Qty
BI-305	**Centrifuge Extractor**	Electric, 220 V-AC, variable speed DC motor up to 3600 rpm, alumunium housing, removable cover and bowl, 1500 gram capacity.	1 Set
BI-303	**Filter Paper**	Low ash filter paper	1 Box

Dimension (l x w x h) : 60 x 40 x 60 cm
Gross Weight : 50 kg

Reflux Extractor Test Set (BI-310)

ASTM D-2172 **AASHTO T-164**

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

Type	Parts Name	Specification	Qty
BI-311	**Reflux Extractor**		
Consist of			
BI-311.1	**Glass Jar**	Pyrex 6" i.d approx.	1 Pc
BI-311.2	**Funnel**	Two wire mesh screen cone	1 Pc
BI-311.3	**Condensor**	Brass/copper	1 Pc
BI-312	**Hot Plate**	220 V-AC, 1000/1500 Watt	1 Set
BI-313	**Filter Paper**	Low ash filter paper	1 Box
GE-216	**Asbestos Wire Gauze**	15 cm x 15 cm	1 Pc

Dimension (l x w x h) : 90 x 50 x 50 cm
Gross Weight : 15 kg

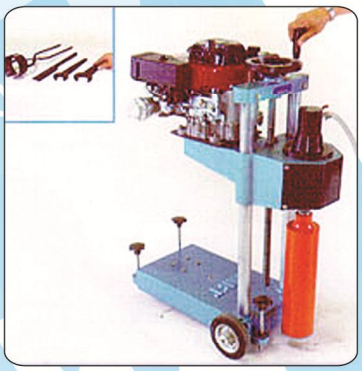
Marshall Test Set (BI-320)

ASTM D-1559 **AASHTO T-245**

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

Type	Parts Name	Specification	Qty
BI-321	Compression Machine	Steel frame, electric, 220 V-AC, 1/2 HP, 1 Phase, speed:2" per minute	1 Set
BI-322	Compaction Mold	Machined steel, galvanized, 4" dia., 3" height, with collar and base plate	1 Set
BI-323	Stability Mold	Cast alumunium, split type 4" i.d., 4" wide	1 Set
BI-324	Compaction Hammer	Machined steel, galvanized, 10 lbs, hammer weight, 18" drop height	1 Set
BI-326	Compaction Pedestal	Wooden base with steel platen	1 Pc
BI-327	Compaction Mold Holder	Machined steel, quick clamping system	1 Set
BI-328	Extruder	Steel frame, hydraulic system	1 Set
BI-329	Flow Meter	Cast alumunium, clamping bolt, with dial indicator 30 x 0.01 mm	1 Set
GE-200	Water Bath	Stainless steel, water heater 220 V-AC, thermostat 30-85°C	1 Set
GE-101.6	Proving Ring	6000 lbs capacity	1 Set

Dimension (l x w x h): 67 x 50 x 100 cm
Gross Weight : 200 kg



Core Drilling Test Set (BI-400A)

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

Type	Parts Name	Specification	Qty
BI-401	Core Drilling Machine	Cast alumunium frame, gasoline engine 5.5 HP, 4 cycle vertical drilling position: rubber caster, up to 4" dia. bit	1 Set
BI-406	Diamond Bit	4" inner dia.	1 Pc
BI-407	Sample Tong	4" dia.	1 Pc
BI-408	Breaking Strip	Galvanized steel	1 Pc
BI-409	Spanner	Steel 42 mm and 32 mm	2 Pcs

Dimension (l x w x h) : 97 x 57 x 150 cm
Gross Weight : 145 kg

Benkleman Beam (BI-450)

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

Type	Parts Name	Specification	Qty
BI-451	Fixed Beam	Alumunium profile frame, 3 points adjuster, with vibrator and dial holder. Alumunium strip arm, 1: 2 lever ratio	1 Set
BI-455	Tire Gauge	120 psi capacity	1 Pc
BI-456	Surface Thermometer	Range 0 - 100 °C	1 Pc
GE-137	Dial Indicator	Range 30 x 0.01mm	1 Pc

Dimension (l x w x h) : 244 x 50 x 50 cm
Gross Weight : 45 kg

Mot Straight Edge (BI-470)

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

Type	Parts Name	Specification	Qty
BI-471	Mot Straight	Alumunium profile, 3 meter length, with handle	1 Pc
BI-472	Metric Wedges	Variable measurement from 2.5 - 7.5 cm, machine cast alumunium	1 Pc

Dimension (l x w x h) : 350 x 30 x 30 cm
Gross Weight : 20 kg

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Mobile Laboratory Concreete Testing (BT-730)

Peralatan Mobile Mixer

* Core Drill (BI-400.A)
* Marshall Test (BI-320)
* Centrifuge Extractor (BI-300.A)
* Reflux Extractor (BI-310)
* Benkleman Beam (BI-450)
* Mot Straight Edge (BI-470)
* Ductility Of Bituminous (BI-250)
* Saybolt Viscosimeter
* Specific Grafity (BI-100)
* Distilation of Cut Back (BI-110.A)
* Flash And Fire Point (BI-200)
* Laboratory Penetration Test (BI-230.A)

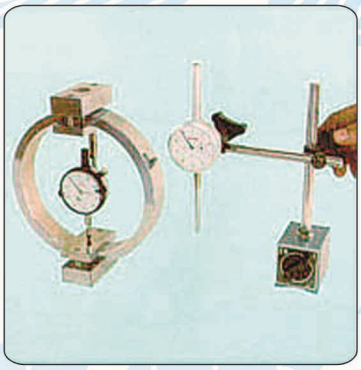
Mobile Asphalt Mixer

(Type BT-300)

Mobile Asphalt Mixer

Kapasitas Produksi 500.Kg/30 Menit

Pelaksanaan Perawatan Jalan
FM-500



Proving Ring (GE-100)

Precision measuring device, high grade steel with plated finishing 3/4" tapped hole at both end. Supplied complete with dial and calibration chart.

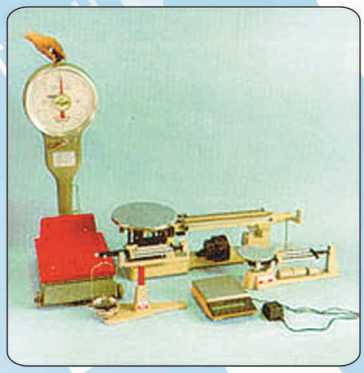
Type	Parts Name	Qty	
GE-101.1	Proving Ring	100	kg capacity
GE-101.2	Proving Ring	250	lbs capacity
GE-101.3	Proving Ring	500	lbs capacity
GE-101.4	Proving Ring	1.000	lbs capacity
GE-101.5	Proving Ring	2.000	lbs capacity
GE-101.6	Proving Ring	6.000	lbs capacity
GE-101.7	Proving Ring	10.000	lbs capacity

Dial Indicator

Type	Parts Name	Qty		
GE-130	Dial Indicator	0.2 in.	x	0.0001 in.
GE-131	Dial Indicator	1.0 in.	x	0.0100 in.
GE-135	Dial Indicator	10 mm	x	0.01 mm
GE-136	Dial Indicator	20 mm	x	0.01 mm
GE-137	Dial Indicator	30 mm	x	0.01 mm
GE-138	Dial Indicator	50 mm	x	0.01 mm

Dial Holder (GE-140)

Chrome plated shaft with simple clamping device.
Powerful magnet with on-off switch. Precision ground surface.



Balance

Cent O-Gram Balance

GE-150	Cent O-Gram Balance	311 gr capacity 0.01 sensitivity
GE-151	Cent O-Gram Balance	311 gr capacity 0.01 sensitivity with dial type adjustment

Triple Beam Balance

GE-152	Triple Beam Balance	2.610 gr capacity 0.1 sensitivity. Supplied complete with weights.
GE-153	Dial O-Gram Balance	2.610 gr capacity 0.1 sensitivity with dial type adjustment. Supplied complete with weights.

Heavy Duty Solution Balance

GE-157	Heavy Duty Solution Balance	20 kg capacity, 1 gr sensitivity. Supplied complete with weights

Platform Scale

GE-159	Platform Scale	50 kg capacity, 10 gr sensitivity, dial type.

Digital Balance

GE-160	Digital Balance	Capacity	310	x	0.001 gr
GE-161	Digital Balance	Capacity	6100	x	0.100 gr

Oven

Universal oven, double walled metal shield.
temperature range from room temperature t0 200°C

Type	Parts Name	Qty
GE-171	Drying Oven	14 ltr capacity, internal dimension (l x w x h) 320 x 240 x 175 mm
GE-172	Drying Oven	32 ltr capacity, internal dimension (l x w x h) 400 x 320 x 250 mm
GE-173	Drying Oven	39 ltr capacity, internal dimension (l x w x h) 480 x 320 x 250 mm
GE-174	Drying Oven	53 ltr capacity, internal dimension (l x w x h) 400 x 400 x 330 mm
GE-175	Drying Oven	108 ltr capacity, internal dimension (l x w x h) 560 x 480 x 400 mm
GE-176	Drying Oven	256 ltr capacity, internal dimension (l x w x h) 800 x 640 x 500 mm
GE-177	Drying Oven	416 ltr capacity, internal dimension (l x w x h) 1040 x 800 x 500 mm
GE-178	Drying Oven	749 ltr capacity, internal dimension (l x w x h) 1040 x 1200 x 600 mm

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Mortar Mixer

Bench model, electric 220 V-AC, supplied complete with beaters.

Type	Parts Name	Specification
GE-950	Mortar Mixer	5 litre capacity
GE-951	Mortar Mixer	10 litre capacity

Square Pan (GE-300)

Galvanized steel provided with handles on both sides.

Type	Parts Name	Dimension
GE-300	Square Pan	25 x 25 x 5 cm
GE-301	Square Pan	40 x 40 x 5 cm
GE-302	Square Pan	50 x 50 x 7.5 cm
GE-303	Square Pan	65 x 65 x 7.5 cm

Rectangular Pan

Galvanized steel provided with handles on both sides.

Type	Parts Name	Dimension
GE-320	Rectangular Pan	30 x 20 x 10 cm
GE-321	Rectangular Pan	45 x 30 x 15 cm
GE-322	Rectangular Pan	60 x 40 x 25 cm
GE-323	Rectangular Pan	90 x 60 x 40 cm

Round Pan (GE-355)

Alumunium sheet, without handle, 25 cm dia. approx.

Mixing Bowl

Stainless steel, round type

Type	Parts Name	Dimension
GE-360	Mixing Bowl	10 cm diameter approx.
GE-361	Mixing Bowl	14 cm diameter approx.
GE-362	Mixing Bowl	20 cm diameter approx.
GE-363	Mixing Bowl	24 cm diameter approx.

Sample Can (GE-380)

Thinned metal, provided with cap, 3 ltr capacity, 20 cm dia. approx.

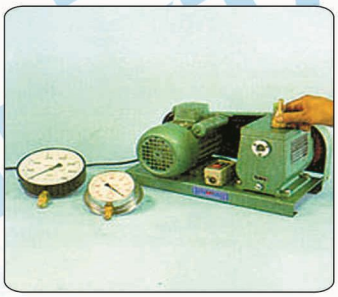
Thin Box

Alumunium sheet, provided with cap.

Type	Parts Name	Qty
GE-390	Thin Box	60 gram capacity
GE-391	Thin Box	120 gram capacity

Glass Plate (GE-386)

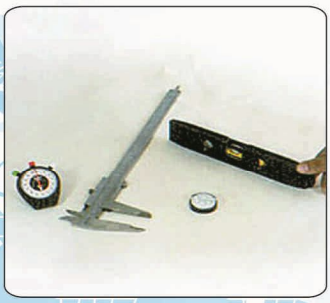
Glass, 10 cm thick, 30 x 30 cm



Manometer

For measuring pressure, single pointer

Type	Part Name	Specification
GE-670	Manometer	25 kg/cm^2 capacity, 6" dia.
GE-671	Manometer	60 kg/cm^2 capacity, 6" dia.
GE-672	Manometer	150 kg/cm^2 capacity, 6" dia.
GE-673	Manometer	250 kg/cm^2 capacity, 6" dia.
GE-674	Manometer	300 kg/cm^2 capacity, 6" dia.
GE-675	Manometer	500 kg/cm^2 capacity, 6" dia.
GE-676	Manometer	700 kg/cm^2 capacity, 6" dia.
GE-677	Manometer	100 kg/cm^2 capacity, 6" dia.



Stop Watch

Precision timer, plastic body.

Type	Parts Name	Specification
GE-700	Stop Watch	60 sec sweep x 30 min
GE-701	Stop Watch	30 sec sweep x 10 min

Graduated Cylinder

Glass made, single numbering

Type	Parts Name	Qty
GE-400	Graduated Cylinder	25 ml capacity
GE-401	Graduated Cylinder	50 ml capacity
GE-402	Graduated Cylinder	100 ml capacity
GE-403	Graduated Cylinder	250 ml capacity
GE-404	Graduated Cylinder	500 ml capacity
GE-405	Graduated Cylinder	1000 ml capacity

Graduated Cylinder

Plastic made, single numbering

Type	Parts Name	Qty
GE-400A	Graduated Cylinder	25 ml capacity
GE-401A	Graduated Cylinder	50 ml capacity
GE-402A	Graduated Cylinder	100 ml capacity
GE-403A	Graduated Cylinder	250 ml capacity
GE-404A	Graduated Cylinder	500 ml capacity
GE-405A	Graduated Cylinder	1000 ml capacity

Volumetric Flask

Heat resistance glass

Type	Parts Name	Qty
GE-410	Volumetric Flask	100 ml capacity
GE-411	Volumetric Flask	250 ml capacity
GE-412	Volumetric Flask	500 ml capacity
GE-413	Volumetric Flask	1000 ml capacity

Breaker Glass

Glass made, with spout

Type	Parts Name	Qty
GE-420	Breaker Glass	100 ml capacity
GE-421	Breaker Glass	250 ml capacity
GE-422	Breaker Glass	600 ml capacity
GE-423	Breaker Glass	800 ml capacity
GE-424	Breaker Glass	1000 ml capacity

Thermometer

Glass, alcohol indicator, 30 cm length.

Type	Parts Name	Range
GE-600	Thermometer	Range 0 - 50°C
GE-601	Thermometer	Range 0 - 100°C
GE-602	Thermometer	Range 0 - 150°C
GE-603	Thermometer	Range 0 - 200°C
GE-604	Thermometer	Range 0 - 300°C
GE-605	Thermometer	Range 0 - 360°C

Pocket Dial Thermometer

Type	Parts Name	Range
GE-610	Pocket Dial Thermometer	Range 0 - 100°C
GE-611	Pocket Dial Thermometer	Range 0 - 200°C
GE-612	Pocket Dial Thermometer	Range 0 - 250°C

Dial Thermometer

Stainless steel sterm and housing.

Type	Parts Name	Range
GE-620	Dial Thermometer	Range 0 - 100°C
GE-621	Dial Thermometer	Range 0 - 200°C
GE-622	Dial Thermometer	Range 0 - 250°C

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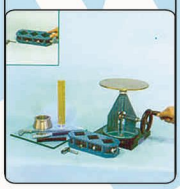
MTE
Meterial Testing Equipment
Soil Testing
Concrete Testing
Asphalt Testing

Soil Testing

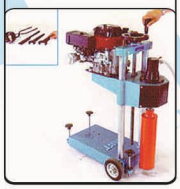
Agreegat Testing

Concrette Testing

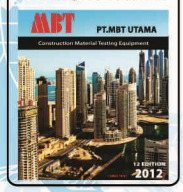
Cement Testing



Asphalt Testing



Catalog MBT 2012



Pabrik MBT

MBT SERVICES :

PT.Mektan babakan Tujuh Utama, selaku Pionir Produsen Peralatan Material Testing Equipment (MTE) untuk pemeriksaan Tanah, Beton, Aspal, sejak tahun 1974, senantiasa siap selalu melayani Customer kami yaitu :

1.Dunia Pendidikan Teknik Sipil
2.Dunia Konstruksi Teknik Sipil
3.Komunitas Teknik Sipil

Pelayanan Kami Antara lain, PT.Mektan Babakan Tujuh Utama dapat :

A. Melaksanakan Produksi dan Suplai
B. Menerima pelatihan teknisi/operator
C. Menerima Kalibrasi peralatan
D. Melaksanakan Perbaikan besar dan Servis
E. Menerima Pengujian Laboratorium dan Lapangan,
F. Mempersiapkan peralatan Laboratorium untuk memenuhi persyaratan Akreditasi Badan Akreditasi Nasional Perguruan Tinggi
G. Menerima pembayaran Harga Peralatan dengan cara pembayaran angsuran per-bulan sesuai perjanjian dan kesepakatan khusus dengan pemilik Pelaksana PTS
H. Mengajak kepada semua pihak terkait, untuk bertanggung jawab mempersiapkan Teknisi, peralatan dan perusahaan konstruksi nasional menyongsong Masyarakat Ekonomi ASEAN 2015 dengan, :
   1. Melengkapi peralatan laboratorium Dunia Pendidikan Teknik Sipil agar kita mem peroleh Teknisi dan ahli teknik yang memiliki kemampuan dan kualitas yang siap menyongsong persaingan merebut pasar ekonomi ASEAN 2015
   2. Membentuk SMK Bidang Keahlian Teknologi dan Rekayasa program Keahlian Teknik bangunan paket keahlian mekanika Tanah, untuk dapat menghasilkan Teknisi Operator peralatan Laboratorium dan lapangan untuk tanah, Beton dan Aspal yang handal
   3. Politeknik Bangunan, dapat menghasilkan Teknisi/Ahli Madya yang mampu menggunakan Peralatan Testing Tanah, Beton, Aspal,
   4. Fakultas Teknik Sipil, menghasilkan ahli teknik yang memiliki kemampuan yang prima untuk merencanakan dan melaksanakan proses pembangunan Konstruksi teknik sipil yang siap bersaing di pasar ekonomi ASEAN 2015.

PT.Mektan Babakan Tujuh Utama

MEKTAN
PT.MBT UTAMA
1974

Achmad Pawennei
Direktur Utama

PT.Mektan Babakan Tujuh Utama
(PT.MBT Utama)

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