

TESTING EQUIPMENT CATALOGUE

1. SOIL TESTING

2. AGGREGATE TESTING

3. CEMENT TESTING

4. CONCRETE TESTING

5. ASPHALT TESTING

6. GENERAL EQUIPMENT



Material Testing Equipment for :
Soil, Agregat, Cement, Concrete,
Asphalt, Laboratory and Field.

BINA MUTU TEKNOTAMA DIGITAL

Jl. Pasir Gede No. 44 Padalarang - Kabupaten Bandung Barat Jawa Barat 40553

E-mail : trading@bmtdigital.co.id - Website : <http://bmtdigital.co.id>

SEKAPUR SIRIH

Peningkatan Mutu Sumber Daya Manusia (SDM) dalam rangka menunjang Program Pemerintah dengan motto **"SDM UNGGUL, INDONESIA MAJU"** dapat terwujud dengan memberikan Pelatihan, Bimbingan Teknis bagi semua stake holder yang diberikan amanah untuk mengemban Program Pembangunan baik Infrastruktur maupun Suprastruktur. Bina Mutu Teknotama Digital selaku Professional Training Provider menyediakan Program Pelatihan baik Reguler maupun In-house Training yang dibimbing oleh para pakar yang berpengalaman dalam melakukan inovasi di berbagai bidang pembangunan. Dengan memberikan pembekalan Bimbingan Teknis kepada Owner (Pemerintah), Kontraktor, Konsultan, maupun perorangan yang terlibat dalam kegiatan Pembangunan, maka hasil pembangunan akan sesuai dengan yang telah direncanakan.

Menyongsong Era Industri 4.0 : perkembangan teknologi digital sudah merambah ke berbagai bidang kehidupan sehingga dapat membantu mempercepat proses kerja yang selama ini dilakukan secara manual dan analog. Pesatnya perkembangan teknologi digital sangat berpengaruh besar terhadap berbagai perhitungan baik di Industri Manufactures, Industri Konstruksi maupun Industri lainnya.

Dengan menggunakan teknologi digital maka akan meminimalisir kesalahan-kesalahan perhitungan yang dilakukan secara manual. Sehingga akan diperoleh hasil perhitungan data yang akurat, cepat dan tepat. Maka dari itu sudah seharusnya kita melakukan proses Digitalisasi untuk semua alat-alat pengujian Teknik Sipil baik di Laboratorium maupun di Lapangan, terutama untuk alat-alat pengujian Tanah, Beton dan Aspal.

Digitalisasi Produk : Digitalisasi Alat Pengujian Tanah, Beton dan Aspal memberikan banyak sekali keuntungan, antara lain :

1. Menghindari salah pembacaan maupun penulisan yang sering terjadi pada peralatan Analog yang disebabkan faktor Human Error.
2. Ketepatan pembacaan sampai 2 digit di belakang koma akan menjadikan data sangat akurat sehingga sangat membantu dalam ketepatan perhitungan.
3. Hasil ahir dapat segera diperoleh tanpa harus menunggu proses pengolahan data dan pemasukan data ke komputer.

Bimbingan Teknis : Untuk menunjang keberhasilan tersebut, Bina Mutu Teknotama Digital menyelenggarakan Pelatihan Reguler dan In-House Training diantaranya :

1. Bimbingan Teknis Bidang Ke-PU-an baik Bina Marga, Cipta Karya, Sumber Daya Air, Teknik Lingkungan dan Teknik Mesin.
2. Sertifikasi Keterampilan Kerja (SKT/SKK) dan Sertifikasi Keahlian (SKA) bidang Teknik Sipil, Arsitektur, SDA dari LPJK.

Jasa Pengujian : menerima Jasa Pengujian Laboratorium dan Material (Tanah, Beton, Aspal), Pengujian In-Situ dan Pengambilan Data Lapangan (Sondir, Boring, SPT, Core Drill dan lain-lain).

Jasa Kalibrasi : Untuk menunjang akurasi alat-alat pengujian kami menerima Kalibrasi Peralatan Laboratorium dan Lapangan baik In-site (di tempat customer) maupun out-site (dikirim ke tempat kami). Proses Kalibrasi dilakukan oleh Laboratorium Kalibrasi yang bersertikat KAN sesuai SNI/IEC 17025-2017.

Salam Hormat,

BINA MUTU TEKNOTAMA DIGITAL



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TESTING EQUIPMENT CATALOGUE

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A. SOIL TESTING

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36. SO-450 Moisture Content Test Set
37. SO-500 Unconfined Compression Machine
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39. SO-515 Consolidation Test Set
40. SO-525 Direct Shear Test Set
41. SO-600 Triaxial Test
42. SO-800 Drilling Machine
43. SO-900 Ligth Weight Deflectometer Digital with GPS Sistem



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SO-625 : SONDIR HYDRAULIC 2.5 TON

The 25 kN apparatus is a compact instrument, that consists of a driving appliance and an engine—pump drive unit: these are connected to each other by 2 high pressure hoses with push/pull couplings, the unit can transported in a passenger car.

The basic accessories incorporate anchoring equipment and all components for the mechanical penetration test. The measured values are read on pressure gauges.

Characteristics :

Weight in kgs :

driving appliances	: 37
drive unit	: 43
hoses	: 5

Overall dimension in cm for transport :

driving appliances	: 36 x 70 x 111
drive unit	: 67 x 36 x 49
sounding speed	: 2 cm/sec.
unloaded speeds :	
Upward	: 9 cm/sec.
Downwards	: 6 cm/sec.

Consist of :

Hydraulic Driving Appliance	1 unit
Engine/pump drive	1 unit
Flexible hoses	1 set
Push Adaptor	1 pc
Full Adaptor	1 pc
Sounding Rod Machined steel, 36 mm o.d., 1 mtr	20 pcs
Plunger Rod Round Bar 15 mm dia x 1 mtr	20 pcs
Spiral Anchor Machined steel, welded 1.5 m length.	4 pcs
Handle And T-piece Machined steel, welded.	1 set
Long Fasten Press	2 pcs
Short Fasten Press	2 pcs

**Tool box containing :**

• Pressure gauges 0-60 x 100 N	1 pcs
• Pressure gauges 0-250 x 100 N	1 pcs
• Mantel Cone Precision machine steel hardened 1 pc tip, tapered thread.	
• Friction Cone Precision machine steel hardened 1 pc with friction jacket, tapered thread	
• Set of service tools and spare seals	1 set

SO-625C : SONDIR HYDRAULIC 2.5 TON, MANOMETER DIGITAL COMPUTERIZED

The penetrometer 50 kN is a compact instrument, that consists of a driving appliance and a separate moveable power unit. The basic accessories incorporate anchoring equipment and all components for the mechanics CPT including a hydraulic measuring device with pressure gauges

Upon request the penetrometer is adjusted at 25 kN driving capacity and is supplied with the corresponding gauges.

Characteristics :

Max. driving capacity : 50 kN
 Max. pulling capacity : 37,5 kN
 Stroke of cylinder : 700 mm
 Sounding speed : 2 cm/sec.
 Unloaded speeds :
 Upward : 12,5 cm/sec.
 Downwards : 10 cm/sec.

Consist of :

Hydraulic Driving Appliance : 1 unit
 Engine/pump 5,3 kw petrol engine : 1 unit
 Flexible hoses : 1 set
 Control unit : 1 set
 Anchoring beams : 2 pcs
 Sounding tubes 36/16 mm dia x 500 mm including pressure rod : 20 pcs

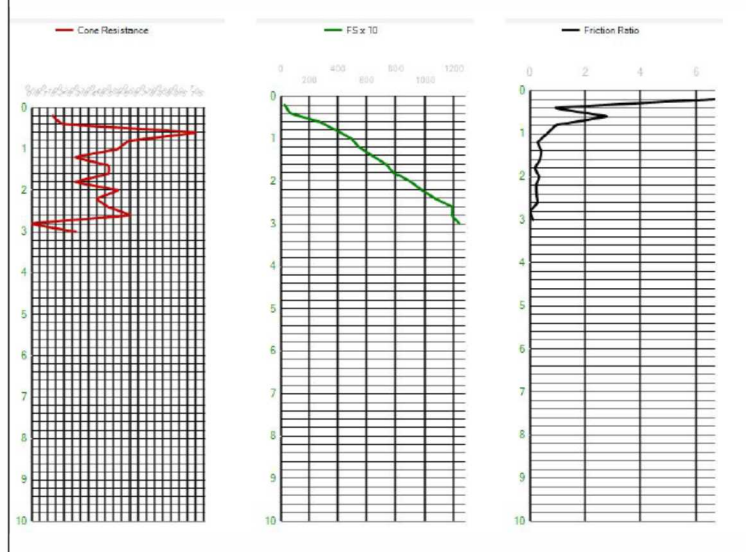
Tool box containing :

Pressure gauges 0-50 x 100 N : 1 pcs
 Pressure gauges 0-500 x 100 N : 1 pcs
 Jacket cones : 1 pcs
 Set of service tools and spare seals : 1 pc

Digital Trenducer and Display Indicator Digital for read friction of Soil**Notebook with Software Digital Sondir Program**

Kelebihan **SONDIR HYDRAULIC DIGITAL + PROGRAM KOMPUTER** buatan kami adalah :

1. Pembacaan sangat akurat karena menggunakan Digital Trenducer yang terkalibrasi KAN, sehingga bisa dapat menghindari salah baca atau salah tulis.
2. Hasil pembacaan langsung direkam oleh program komputer buatan kami yang telah dirancang khusus dan melalui riset.
3. Output dari Sondir Digital bisa langsung dilihat dilayar atau dicetak ke printer.
4. Data disimpan dalam bentuk file sehingga mudah untuk disimpan dan diarsipkan.
5. Battery Digital Manometer dan Battery Laptop Tahan lama cukup untuk pemakaian sehari di lapangan.



Gross Weight : 500 kg

SO-650 : SONDIR HYDRAULIC 5 TON, MANOMETER ANALOG

The penetrometer 50 kN is a compact instrument, that consists of a driving appliance and a separate moveable power unit. The basic accessories incorporate anchoring equipment and all components for the mechanics CPT including a hydraulic measuring device with pressure gauges

Upon request the penetrometer is adjusted at 50 kN driving capacity and is supplied with the corresponding gauges.

Characteristics :

Max. driving capacity	: 50 kN
Max. pulling capacity	: 37,5 kN
Stroke of cylinder	: 700 mm
Sounding speed	: 2 cm/sec.
Unloaded speeds :	
Upward	: 12,5 cm/sec.
Downwards	: 10 cm/sec.

Consist of :

Hydraulic Driving Appliance	1 unit
Engine/pump drive	1 unit
Flexible hoses	1 set
Push Adaptor	1 pc
Full Adaptor	1 pc
Sounding Rod Machined steel, 36 mm o.d., 1 mtr	20 pcs
Plunger Rod Round Bar 15 mm dia x 1 mtr	20 pcs
Spiral Anchor Machined steel, welded 1.5 m length.	4 pcs
Handle And T-piece Machined steel, welded.	1 set
Long Fasten Press	2 pcs
Short Fasten Press	2 pcs

Tool box containing :

• Pressure gauges 0-60 x 100 N	1 pc
• Pressure gauges 0-500 x 100 N	1 pc
• Mantel Cone Precision machine steel hardened 1 pc tip, tapered thread.	
• Friction Cone Precision machine steel hardened 1 pc with friction jacket, tapered thread	
• Set of service tools and spare seals	1 set



SO-650D : SONDIR HYDRAULIC 5 TON, MANOMETER DIGITAL

The penetrometer 50 kN is a compact instrument, that consists of a driving appliance and a separate moveable power unit. The basic accessories incorporate anchoring equipment and all components for the mechanics CPT including a hydraulic measuring device with pressure gauges

Upon request the penetrometer is adjusted at 50 kN driving capacity and is supplied with the corresponding gauges.

Characteristics :

Max. driving capacity	: 50 kN
Max. pulling capacity	: 37,5 kN
Stroke of cylinder	: 700 mm
Sounding speed	: 2 cm/sec.
Unloaded speeds :	
Upward	: 12,5 cm/sec.
Downwards	: 10 cm/sec.

Consist of :

Hydraulic Driving Appliance	1 unit
Engine/pump drive	1 unit
Flexible hoses	1 set
Push Adaptor	1 pc
Full Adaptor	1 pc
Sounding Rod Machined steel, 36 mm o.d., 1 mtr	20 pcs
Plunger Rod Round Bar 15 mm dia x 1 mtr	20 pcs
Spiral Anchor Machined steel, welded 1.5 m length.	4 pcs
Handle And T-piece Machined steel, welded.	1 set
Long Fasten Press	2 pcs
Short Fasten Press	2 pcs

Tool box containing :

- Pressure Gauges Digital 0-600 x 100 N 2 pcs
- Coupler For Pressure Gauge Digital 2 pcs
- Mantel Cone Precision machine steel hardened 1 pc tip, tapered thread.
- Friction Cone Precision machine steel hardened 1 pc with friction jacket, tapered thread
- Set of service tools and spare seals 1 set



SO-670 : SONDIR HYDRAULIC DIGITAL + KOMPUTERIZED KAPASITAS 5 TON

The penetrometer 50 kN is a compact instrument, that consists of a driving appliance and a separate moveable power unit. The basic accessories incorporate anchoring equipment and all components for the mechanics CPT including a hydraulic measuring device with pressure gauges

Upon request the penetrometer is adjusted at 25 kN driving capacity and is supplied with the corresponding gauges.

Characteristics :

Max. driving capacity	: 50 kN
Max. pulling capacity	: 37,5 kN
Stroke of cylinder	: 700 mm
Sounding speed	: 2 cm/sec.
Unloaded speeds :	
Upward	: 12,5 cm/sec.
Downwards	: 10 cm/sec.

Consist of :

Hydraulic Driving Appliance	1 unit
Engine/pump 5,3 kw petrol engine	1 unit
Flexible hoses	1 set
Control unit	1 set
Anchoring beams	2 pcs
Sounding tubes 36/16 mm dia x 500 mm including pressure rod	20 pcs

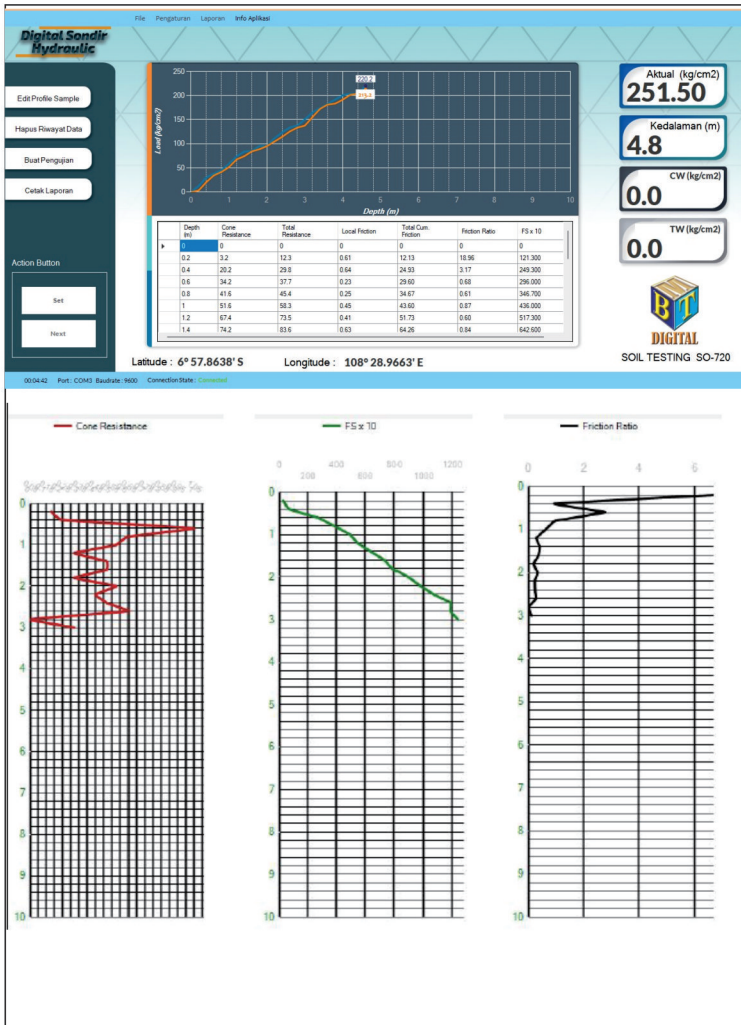
Tool box containing :

Pressure gauges 0-50 x 100 N	1 pcs
Pressure gauges 0-500 x 100 N	1 pcs
Jacket cones	1 pcs
Set of service tools and spare seals	1 pc

Digital Trenducer and Display Indicator Digital for read friction of Soil**Notebook with Software Digital Sondir Program**

Kelebihan **SONDIR HYDRAULIC DIGITAL + PROGRAM KOMPUTER** buatan kami adalah :

1. Pembacaan sangat akurat karena menggunakan Digital Trenducer yang terkalibrasi KAN, sehingga bisa dapat menghindari salah baca atau salah tulis.
2. Hasil pembacaan langsung direkam oleh program komputer buatan kami yang telah dirancang khusus dan melalui reset.
3. Output dari Sondiri Digital bisa langsung dilihat dilayar atau dicetak ke printer.
4. Data disimpan dalam bentuk file sehingga mudah untuk disimpan dan diarsipkan.
5. Battery Digital Manometer dan Battery Laptop Tahan lama cukup untuk pemakaian sehari di lapangan.



SO-700 : SONDIR HYDRAULIC 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 pickets	4 pcs
Sounding tubes 36/16 mm dia x 1000 mm, including pressure rod	40 pcs

Tool box containing :

Pressure gauges 0-16 x 100 N	1 pcs
Pressure gauges 0-120 x 100 N	1 pcs
Automatic safety valve	1 pc
Jacket cones	1 pcs
Friction jacket cones	1 pcs
Friction reducer	1 pc
Spares for petrol engine	1 pc
Spares for hydraulic engine	1 pc
Set of service tools	1 pc

Include : Kalibrasi Pressure Gauge dengan sertifikat KAN



Gross Weight : 800 kg

SO-700 SONDIR HYDRAULIC 10 TON

SO-720 : SONDIR HYDRAULIC DIGITAL + KOMPUTERIZED KAPASITAS 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 :

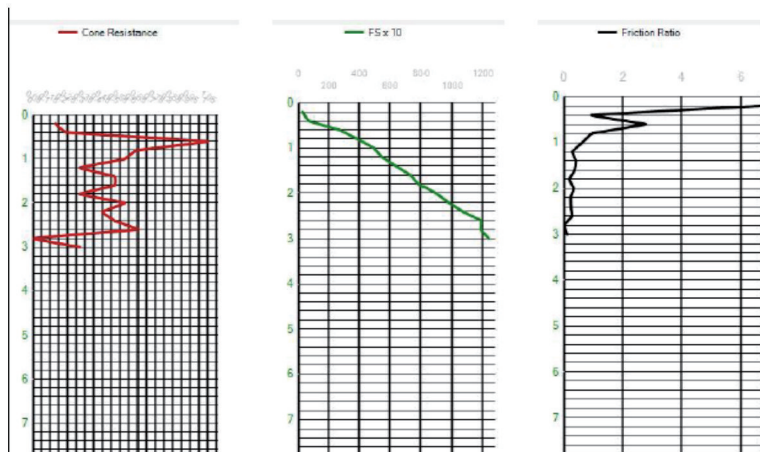
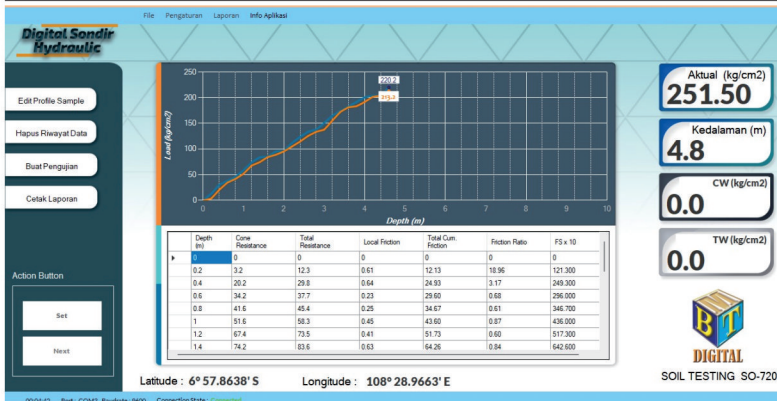
Hydraulic Driving Appliance	1 unit
Engine/pump 8 kw petrol engine	1 unit
Flexible hoses	1 set
Control unit	1 set
Anchoring pickets	4 pcs
Sounding tubes 36/16 mm dia x 1000 mm, including pressure rod	40 pcs

Tool box containing :

Pressure gauges 0-16 x 100 N	1 pcs
Pressure gauges 0-120 x 100 N	1 pcs
Automatic safety valve	1 pc
Jacket cones	1 pcs
Friction jacket cones	1 pcs
Friction reducer	1 pc
Spares for petrol engine	1 pc
Spares for hydraulic engine	1 pc
Set of service tools	1 pc

Digital Trenducer and Display Indicator for read friction of Soil**Notebook with Software Digital Sondir Program****Kelebihan SONDIR HYDRAULIC DIGITAL + PROGRAM KOMPUTER** buatan kami adalah :

1. Pembacaan sangat akurat karena menggunakan Digital Trenducer yang terkalibrasi KAN, sehingga bisa dapat menghindari salah baca atau salah tulis.
2. Hasil pembacaan langsung direkam oleh program komputer buatan kami yang telah dirancang khusus dan melalui riset.
3. Output dari Sondir Digital bisa langsung dilihat dilayar atau dicetak ke printer.
4. Data disimpan dalam bentuk file sehingga mudah untuk disimpan dan diarsipkan.
5. Battery Digital Manometer dan Battery Laptop Tahan lama cukup untuk pemakaian sehari di lapangan.



SO-750 : SONDIR HYDRAULIC 20 TON

In comparison with the lighter models, this 200 kN machine offers beside its greater driving and pulling capacity, a number of extra facilities, which make it an ideal survey tool for civil and geotechnical engineers.

The standard measuring device is equipped with 2 pressure gauges, one for forces up to 16 kN and the other for higher forces up to 200 kN. The pressure gauge 0-16 kN is protected against overload by an automatic cut off valve.

Characteristics :

Max. driving capacity	: 200 kN
Max. pulling capacity	: 260 kN
Max. permissible load on the pressured rods	: 70 kN
Weight without accessories	: 1500 kgs
Weight of the engine-pump unit	: 450 kgs
Weight of the driving appliance	: 300 kgs
Sounding speed	: 2 cm/sec

Unloaded speeds :

Upward	: 12,5 cm/sec.
Downwards	: 16,5 cm/sec.

Consist of :

Hydraulic Driving Appliance	1 unit
Engine/pump 9,5 kw petrol engine	1 unit
Flexible hoses	1 set
Control unit	1 unit
Anchoring beams	4 pcs
Sounding tubes 36/16 mm dia x 1000 mm including pressure rod	25 pcs

Tool box containing :

Pressure gauges 0-16 x 100 N	1 pcs
Pressure gauges 0-200 x 100 N	1 pcs
Automatic safety valve	1 pc
Jacket cones	1 pcs
Friction jacket cones	1 pcs
Friction reducer	1 pc
Spares for petrol engine	1 pc
Spares for hydraulic engine	1 pc
Set of service tools	1 pc



SO-755 : SONDIR HYDRAULIC DIGITAL + KOMPUTERIZED KAPASITAS 20 TON

In comparison with the lighter models, this 200 kN machine offers beside its greater driving and pulling capacity, a number of extra facilities, which make it an ideal survey tool for civil and geotechnical engineers.

The standard measuring device is equipped with 2 pressure gauges, one for forces up to 16 kN and the other for higher forces up to 200 kN. The pressure gauge 0-16 kN is protected against overload by an automatic cut off valve.

Characteristics :

Max. driving capacity	: 200 kN
Max. pulling capacity	: 260 kN
Max. permissible load on the pressured rods	: 70 kN
Weight without accessories	: 1500 kgs
Weight of the engine-pump unit	: 450 kgs
Weight of the driving appliance	: 300 kgs
Sounding speed	: 2 cm/sec

Unloaded speeds :

Upward	: 12,5 cm/sec.
Downwards	: 16,5 cm/sec.

Consist of :

Hydraulic Driving Appliance	1 unit
Engine/pump 9,5 kw petrol engine	1 unit
Flexible hoses	1 set
Control unit	1 unit
Anchoring beams	4 pcs
Sounding tubes 36/16 mm dia x 1000 mm including pressure rod	40 pcs

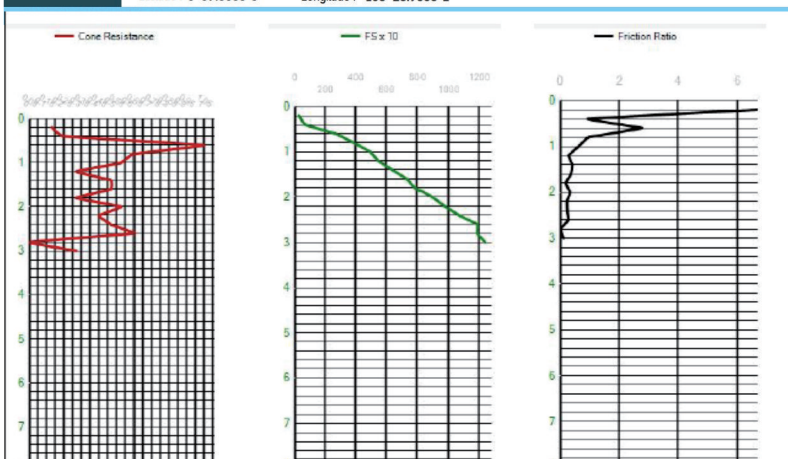
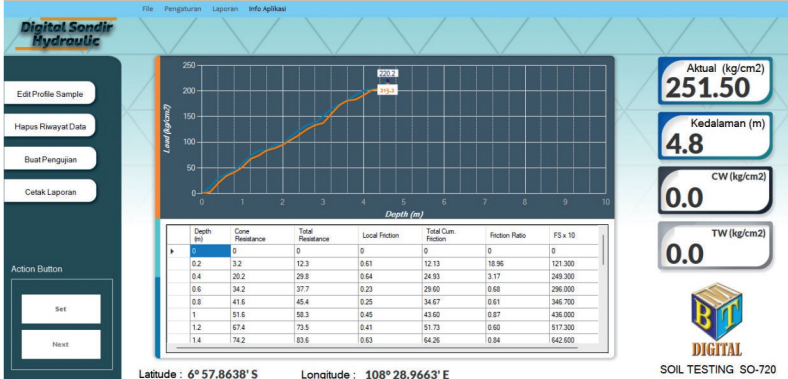
Tool box containing :

Pressure gauges 0-16 x 100 N	1 pcs
Pressure gauges 0-200 x 100 N	1 pcs
Automatic safety valve	1 pc
Jacket cones	1 pcs
Friction jacket cones	1 pcs
Friction reducer	1 pc
Spares for petrol engine	1 pc
Spares for hydraulic engine	1 pc
Set of service tools	1 pc

Digital Trenducer and Display Indicator for read friction of Soil**Notebook with Software Digital Sondir Program**

Kelebihan **SONDIR HYDRAULIC DIGITAL + PROGRAM KOMPUTER** buatan kami adalah :

1. Pembacaan sangat akurat karena menggunakan Digital Trenducer yang terkalibrasi KAN, sehingga bisa dapat menghindari salah baca atau salah tulis.
2. Hasil pembacaan langsung direkam oleh program komputer buatan kami yang telah dirancang khusus dan melalui riset.
3. Output dari Sondir Digital bisa langsung dilihat dilayar atau dicetak ke printer.
4. Data disimpan dalam bentuk file sehingga mudah untuk disimpan dan diarsipkan.
5. Battery Digital Manometer dan Battery Laptop Tahan lama cukup untuk pemakaian sehari di lapangan.

TAMPILAN PROGRAM KOMPUTER SONDIR DIGITAL

SO-110 : HAND BOR

Drilling for Soil Sampling Preparation

SO-110 A	HAND BOR	1 set
	<u>Consist of :</u>	
SO-111	Drilling Rod : Solid bar, 1 m length, 1 1/4" dia.	10 pcs
SO-112	Iwan Type Auger	1 pc
SO-113	Welded steel, two radial blades, 4" dia	
SO-113	Straight Choping Auger	1 pc
SO-114	Steel bar, hardened tip, 45 mm width	
SO-114	T-Piece : Welded steel	1 pc
SO-115	Tube Adaptor	1 pc
SO-116	Machine steel, with 3 clamping bolts	
SO-116	Turning Rod	2 pcs
SO-117	Machine steel, 1 1/4" dia, 60 cm length.	
SO-117	Sampling Tube	10 pcs
SO-117	68 mm dia, 40 cm length, with 3 bolt holes.	
SO-118	Rod Head	1 pc
SO-118	Hardened, machined steel, 2 1/2" dia	
SO-119	Parafin	2 kg
SO-120	Vertical Guide	1 pc
SO-120	Machine Steel	
GE-735 A	Allen Key	1 pc
GE-735 A	Hardened steel, 1/4"	
GE-739	Pipe Wrench, 24" Wrench	2 pcs
GE-902	Hammer, 5 kg weight	1 pc
GE-920	Steel Wire Brush	1 pc
GE-920	Wooden handle	

**SO-110**

Dimension

(l x w x h) : 105 x 60 x 60 cm

Gross Weight : 130 kg

Also Required, but not part of this set:

SO-140 Sample Extruder

CO-473 Ladle

GE-222 Butane Field Heater

GE-363 Mixing Bowl

SO-130 : STANDARD PENETRATION TEST (SPT) MANUAL

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

**SO-130**

Dimension

(l x w x h) : 330 x 60 x 60 cm

Gross Weight: 445 kg

SO-130A : BOR MESIN RINGAN + SPT OTOMATIS WITH JACRO MACHINE**Spesifikasi :**

I. UNIT MACHINE			
1	Drilling Machine 16 PK	1	set
2	Depth Capacity	50	m
3	Water Pump 5 PK	1	set

II. ACCESSORIES

1	Selang Tekan	1	Set
2	Selang Hisap	1	Set
3	Water Swivel	1	Set
4	ROD AW/42 @ 3 Meter	20	btg
5	Katrol	1	Set
6	Sling	1	Set
7	Hammer SPT Matic 63.5 kg Lengkap	1	Set
8	Tabung SPT (Split)	1	Set
9	Single Core Barel	1	Set
10	Double Core Barel	1	Set
11	Tabung UDS dia 68/60 cm	20	Pcs
12	Kunci-Kunci	1	Set
13	Seling Penggerak Hammer	1	Set

Mesin SPT Otomatis yang dilengkapi dengan Mesin Bor Ringan untuk kapasitas 50 meter.

Keuntungan mesin ini selain untuk pekerjaan SPT juga sekaligus untuk pekerjaan Pengeboran sampai kedalaman 50 meter. Mesin Bor Multifungsi ini sangat membantu untuk kegiatan-kegiatan pengeboran yang tidak bisa dilakukan oleh Sondir dan SPT manual.



Dimension

(l x w x h) : 330 x 60 x 60 cm

Gross Weight: 500 kg

SO-130B : STANDARD PENETRATION TEST (SPT) WITH MOTOR

ASTM D-1586		AASHTO T-206
For driving a split barrel sampler to obtain a representative soil sample and measure the soil resistance to penetration.		
SO-130 A	STANDARD PENETRATION TEST ASTM D-1586 / AASHTO T-206 <u>Consist of :</u>	1 set
SO-131	Split Barrel Sampler Hardened machined steel, 1 3/8" I.d; 18" length.	1 pc
SO-132	Sampling Rod Steel pipe, 1.5 m length.	20 pcs
SO-133	Drive weight Assembly <u>Consist of :</u>	
SO-133.1	Hammer Steel, 63.5 kg weight	1 pc
SO-133.2	Anvil Machine steel	1 pc
SO-133.3	Guide Rod Steel, 76.2 cm drop height.	1 pc
SO-134	Tripod Assembly <u>Consist of :</u>	
SO-134.1	Tripod Stand, Steel pipe	1 pc
SO-134.2	Pulley 20 cm dia.	1 pc
SO-134.3	Rope 3/4" dia x 15 mtr.	1 rol
SO-137	Vertical Guide Machine steel.	1 pc
GE-739	Pipe Wrench 24" length.	2 pcs
Mesin penggerak untuk menarik beban SPT menggunakan bahan bakar bensin		1 set



Dimension
(l x w x h) : 330 x 60 x 60 cm
Gross Weight: 500 kg

SO-135 : SPT 10 KG LIGHT WEIGHT SOIL DYNAMIC CONE PENETROMETER

SPT 10kg Light Weight Soil Dynamic Core Penetrometer

Other attributes :

Power	Manual
Warranty	1 Year
Brand Name	BMT DIGITAL
Condaton	NEW
Standard	BS. ASTM
Drive Weight	10 Kg $\pm$ 10g
Fall Height	500 mm
Max. Penetration	600 mm
Drive Conical Angle	60 degree
Drive Conical Point	diameter 40 mm
Jumlah Stang	10 buah
Tools	1 set Kunci-kunci 1 set alat pengungkit stang

Dimension

(l x w x h) : 50 x 50 x 110 cm

Gross Weight: 75 kg

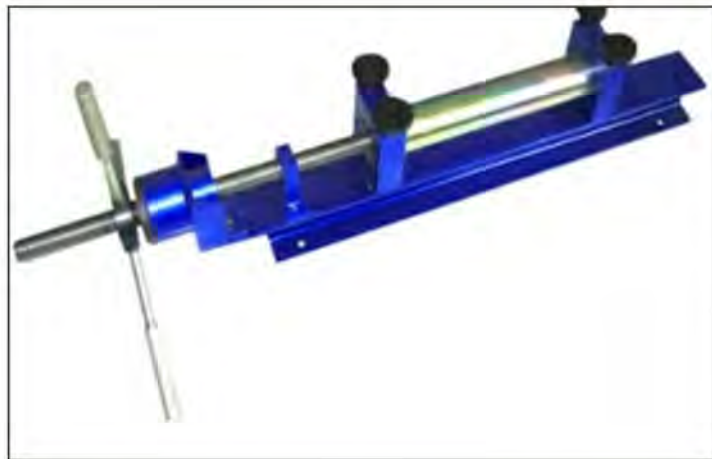
**SO-135**

SO-140 : SAMPLE EXTRUDER MANUAL

For extruding soil specimen from 68 mm sampling tube, welded steel, screw type. Supplied without sampling tube.

Also required, but not part of this set:

GE-380	Sample Can
GE-840	Wire Saw



SO-145 : SAMPLE EXTRUDER ELECTRIC

For extruding soil specimen from 68 mm sampling tube, welded steel, electric, 220 Volt, 750 Watt, 1 phase, Supplied without sampling tube.



SO-150 : DYNAMIC CONE PENETROMETER (DCP)

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

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

SO-160 : TUBE DENSITY SAMPLER**ASTM D-2573**

SO-161	Hammer Machine steel, plated, 10 lbs, sliding weight : 20" falling height.	1 set
SO-162	Sampling Tube Machine steel, plated, 2" i.d. 6.7" length.	12 pcs



Also required, but not part of this set:

SO-450 : Moisture Content Test Set

GE-152 : Triple Beam Balance

GE-711 : Vernier Caliper

GE-840 : Wire Saw

SO-170 : CORPS OF ENGINEER SOIL SURFACE SAMPLER**ASTM D-2937**

For determining soil density in place.

SO-171	<u>Consist of :</u> Hammer Machine steel, plated, 10 lbs sliding weight : 20 falling height.	1 set
SO-172	Sampling Tube Machine steel, plated, 3" i.d., 2-7/8" i.d., 2-13/16" length.	12 pcs

Dimension

(l x w x h) : 25 x 25 x 100 cm

Gross Weight: 35 kg

Also required, but not part of this set:

SO-450 : Moisture Content Test Set

GE-152 : Triple Beam Balance

GE-711 : Vernier Caliper

GE-840 : Wire Saw



SO-200 : DUTCH CONE PENETROMETER (SONDIR RINGAN) MANUAL 2.5 TON

ASTMD-3441

For determining cone resistance and friction resistance of soil layers.

SO-201	Handle	Steel construction, manually operated 2,5 tons capacity	1 Pcs
SO-202A	Sounding Rod	Machined steel, 36 mm o.d., 1 mtr effective length, tapered thread	20 Pcs
SO-203	Plunger Rod	Round bar, 15 mm dia, 1 mtr length drop height 575 mm	20 Pcs
SO-204	Adaptor		
Consist of:			
SO-204.1	Push Adaptor	Machined steel	1 Pcs
SO-204.2	Pull Adaptor	Machined steel	1 Pcs
GE-730A	Open End Wrench	Vanadium steel 12/13, 14/15	2 Pcs

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, tapered thread, 60o angle, 35.7 mm dia.	1 Pc
SO-207A	Friction cone	Precision machined steel, hardened, with friction jacket, tapered thread, 60o angle, 35.7 mm dia.	1 pc
SO-208	Wrenches Set	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/cm2 capacity	1 Pc
GE-673	Manometer	250 kg/cm2 capacity	1 Pc

Also required,
but not part of this set:
GE-721 Levels
GE-748 Leather Gloves
GE-897 Roll Meter
GE-965 Hydraulic Oil

Dimension (l x w x h) : 220 x 180 x 80 cm
Gross Weight : 500 kg

SO-200D : DUTCH CONE PENETROMETER (SONDIR RINGAN) MANUAL 2.5 TON MANO DIGITAL



ASTM D-3441

For determining cone resistance and friction resistance of soil layers.

SO-201	Handle	Steel construction, manually operated 2,5 tons capacity	1 Pcs
SO-202A	Sounding Rod	Machined steel, 36 mm o.d., 1 mtr effective length, tapered thread	20 Pcs
SO-203	Plunger Rod	Round bar, 15 mm dia, 1 mtr length drop height 575 mm	20 Pcs
SO-204	Adaptor		
Consist of:			
SO-204.1	Push Adaptor	Machined steel	1 Pcs
SO-204.2	Pull Adaptor	Machined steel	1 Pcs
GE-730A	Open End Wrench	Vanadium steel 12/13, 14/15	2 Pcs

Also required,
but not part of this set:
GE-721 Levels
GE-748 Leather Gloves
GE-897 Roll Meter
GE-965 Hydraulic Oil

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, tapered thread, 60o angle, 35.7 mm dia.	1 Pc
SO-207A	Friction cone	Precision machined steel, hardened, with friction jacket, tapered thread, 60o angle, 35.7 mm dia.	1 pc
SO-208	Wrenches Set	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	1 mtr length, 12 cm width	2 Pcs
GE-673D	Manometer Digital	250 kg/cm2 capacity	1 Pc
	Coupler		1 Pc

Dimension (l x w x h) : 220 x 180 x 80 cm
Gross Weight : 500 kg

SO-210 : DUTCH CONE PENETROMETER (SONDIR BERAT) MANUAL 5 TON**ASTMD-3441**

For determining cone resistance and friction resistance of soil layers.

SO-211	Press-in Apparatus	Steel construction, manually operated 5 tons capacity.	1 Pcs
SO-202A	Sounding Rod	Machined steel, 36 mm o.d., 1 mtr effective length, tapered thread	20 Pcs
SO-203	Plunger Rod	Round bar, 15 mm dia, 1 mtr lengthdrop height 575 mm	20 Pcs
SO-204	Adaptor		
Consist of:			
SO-204.1	Push Adaptor	Machined steel	1 Pcs
SO-204.2	Pull Adaptor	Machined steel	1 Pcs

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, tapered thread, 60o angle, 35.7 mm dia.	1 Pc
SO-207A	Friction cone	Precision machined steel, hardened, with friction jacket, tapered thread, 60o angle, 35.7 mm dia.	
SO-208	Wrenches Set	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	1.8 mtr length, 12 cm width	2 Pcs
SO-209.2	Short Fasten Press	1.2 mtr length, 15 cm width	2 Pcs
GE-671	Manometer	60 kg/cm2 capacity	1 Pc
GE-673	Manometer	500 kg/cm2 capacity	1 Pc
Also required, but not part of this set: GE-721 Levels GE-748 Leather Gloves GE-897 Roll Meter GE-965 Hydraulic Oil			

Dimension (l x w x h) : 220 x 180 x 80 cm
Gross Weight : 500 kg

SO-210D : DUTCH CONE PENETROMETER (SONDIR BERAT) MANUAL 5 TON, MANO DIGITAL**ASTM D-3441**

For determining cone resistance and friction resistance of soil layers.

SO-211	Press-in Apparatus	Steel construction, manually operated 5 tons capacity.	1 Pcs
SO-202A	Sounding Rod	Machined steel, 36 mm o.d., 1 mtr effective length, tapered thread	20 Pcs
SO-203	Plunger Rod	Round bar, 15 mm dia, 1 mtr length drop height 575 mm	20 Pcs
SO-204	Adaptor		
Consist of:			
SO-204.1	Push Adaptor	Machined steel	1 Pcs
SO-204.2	Pull Adaptor	Machined steel	1 Pcs

Dimension (l x w x h) : 220 x 180 x 80 cm
 Gross Weight : 500 kg

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, tapered thread, 60o angle, 35.7 mm dia.	1 Pc
SO-207A	Friction cone	Precision machined steel, hardened, with friction jacket, tapered thread, 60o angle, 35.7 mm dia.	
SO-208	Wrenches Set	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	1.8 mtr length, 12 cm width	2 Pcs
SO-209.2	Short Fasten	1.2 mtr length, 15 cm width	2 Pcs
GE-673D	Manometer Digital	500 kg/cm2 capacity	1 Pc
	Coupler		1 Pc
Also required, but not part of this set: GE-721 Levels GE-748 Leather Gloves GE-897 Roll Meter GE-965 Hydraulic Oil			

SO-250 : PLATE BEARING TEST SET

ASTM D-1194		AASHTO T-235	
For determining ultimate bearing capacity of soil on place by means of field loading test.			
SO-251A	Hydraulic Jack	50 tons capacity, manometer read out, hand operated..	
Consist Of:			
SO-251.2	Manometer	6" dia., 50 tons capacity, 0.5 tons increament	1 Pcs
GE-682	Hidraulic Cylinder	50 tons capacity	1 Pc
GE-691	Hidraulic Hand Pump	Double action, 10.000 psi capacity	1 Pc
GE-699	Hydraulic Hose	10.000 psi, 180 cm length	2 Pcs
SO-252	Reference Beam	Steel pipe, 2 x 150 cm span	1 Set
SO-253	Circular Bearing Plate	6" dia., machined steel, 1" thick	1 Pcs
SO-254	Circular Bearing Plate	10" dia., machined steel, 1" thick	1 Pcs

SO-255	Circular Bearing Plate	12" dia., machined steel, 1" thick	1 Pcs
SO-256	Circular Bearing Plate	18" dia., machined steel, 1" thick	1 Pcs
SO-257	Circular Bearing Plate	24" dia., machined steel, 1" thick	1 Pcs
SO-258	Circular Bearing Plate	30" dia., machined steel, 1" thick	1 Pcs
SO-259	Square Bearing Plate	12" x 12" machined steel, 1" thick	1 Pcs
GE-137	Dial Indicator	Range 30 x 0.01 mm	4 Pcs
GE-140	Dial Holder	Magnetic	4 Pcs

Dimension (l x w x h) : 150 x 80 x 80 cm
Gross Weight : 300 kg

SO-260 : FIELD CBR TEST SET

ASTM D-4429
For determining CBR value on place.

SO-261	Mechanical Jack	Cast aluminium housing, 5 tons cap, hand operated, 2 speeds.
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Consist Of:

SO-261.1	Mechanical Jack	5 tons capacity	1 Pcs
SO-261.2	Swivel Hand	Cast aluminium	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 Pcs
SO-262.1	Extension Set Bearing Plate	Machined steel, galvanized, 5 cm, 10 cm, 20 cm and 60 cm, provided with connecting adaptor 1" thick	1 Set
SO-263	Reference Beam	Steel pipe, 160 cm span	1 Set
SO-264	Circular Surcharge Weight	Machined steel, galvanized, 10" dia., 10 lbs weight	1 Pcs
SO-265	Slotted Surcharge Weight	Machined steel, galvanized, 8" dia., 10 lbs weight	1 Pcs

SO-266	Slotted Surcharge Weight	Machined steel, galvanized, 8.5" dia., 20 lbs weight	1 Pcs
GE-101.5	Proving Ring	2.000 lbs capacity	1 Set
GE-101.7	Proving Ring	10.000 lbs capacity	1 Set
GE-137	Dial Indicator	Range 30 x 0.001 mm	1 Pcs
GE-140	Dial Holder	Magnetic	1 Pcs

Dimension (l x w x h) : 140 x 35 x 35 cm
Gross Weight : 75 kg

Also required,
but not part of this set:
SO-450 Moisture Content Test Set
GE-700 Stop Watch
GE-721 Levels
GE-871 Trowel
GE-881 Chisel
GE-960 Hydraulic Jack

SO-270 PROVING RING PENEMOMETER

For determining penetration resistance of soil layers.

SO-271	Penetration Rod	Round bar, 3/4" dia., 51.5 cm/49 cm length with 5 cm increment lines.	2 Pcs
SO-272	Penetration Cone	Machined steel, hardened, plated, 1 sq. in cross section area, 30o angle	2 Pcs
SO-273	Holder	Alumunium handle	1 Pcs
SO-274	Carrying Case	Wooden case	1 Pcs
GE-101.1	Proving Ring	100 kg capacity	1 Pcs
GE-730A	Open End Wrench	Vanadium steel	2 Pcs

**SO-270**

Also required, but not part of this set:

SO-450	Moisture Content Test Set
GE-390	Thon Box
GE-965	Hydraulic Oil

Dimension (l x w x h) : 65 x 35 x 20 cm
Gross Weight : 10 kg

SO-280 TVA PENEMOMETER

Widely used in analyzing soil surface.			
SO-281	Penetration Rod and Chamber	Steel pipe, 65 cm length with hydraulic chamber	1 Pcs
SO-281.1	Penetration Rod	Round bar, 40 cm length	2 Pcs
SO-281.2	Hydraulic Chamber	Machine steel, 100 kg cap.	1 Pcs
SO-282	Penetration Needle	Machine steel, hardened, tip 0.5, 1.0, 2.0, 3.0, sq. cm. Cross section area	1 Set
SO-283	Holder	Alumunium handle	1 Pcs
SO-284	TVA Manometer	100 kg capacity	1 Pcs
SO-285	Carrying Case	Wooden case	1 Pcs
GE-730A	Open End Wrench	Water Proof cloth	1 Pcs
GE-730A	Open End Wrench	Vanadium steel	2 Pcs



Also required, but not part of this set:

GE-965 Hydraulic Oil

Dimension (l x w x h) : 65 x 35 x 20 cm
Gross Weight : 10 kg

SO-310 LIQUID LIMIT TEST SET

ASTMD-4318		AASHTO T-89	
For determining liquit limit of soil sample.			
SO-311	Liquid Limit Device	Hand operated, brass cup, hard rubber base	1 set
SO-312	ASTM Grooving Tool	Machined steel, head gauge	1 Pcs
SO-313	Cassagrande Grooving Tool	Brass plate	1 Pcs
GE-390	Thin Box	Alumunium, 60 gr capacity	12 Pcs
GE-396	Glass Plate	Galss, 10 mm thick, 30 x 30 cm	1 Pcs
GE-402	Graduated Cylinder	100 ml capacity	1 Pcs
GE-501	Porcelain Dish	12 cm dia., 250 ml capacity	1 Pcs
GE-820	Spatula	150 mm blade	1 Pcs
GE-825	Scraper	100 mm blade	1 Pcs

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

Gross Weight : 7 kg



Also required, but not part of this set:

SO-450	Moisture Content Test Set
AG-2321	Sieve No. 40
AG-250	Pan & Cover
GE-511	Mortar and Pastle
GE-521	Wash Bottle

SO-311A LIQUID LIMIT DEVICE

ASTM D-4318

AASHTO T-89

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

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



SO-311B LIQUID LIMIT DEVICE

ASTM D-4318

AASHTO T-89

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

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

Gross Weight : 7 kg



SO-315 PLASTIC LIMIT TEST SET

ASTMD-4318		AASHTO T-90	
For determining plastic limit of soil sample.			
SO-316	Plastic Limit Plate	Glass made	1 set
Consist of :			
SO-316.1	Reference Rod	Brass plate	1 Pcs
GE-396	Glass Plate	Glass, 10 mm thick, 30 x 30 cm	1 Pcs
GE-390	Thin Box	Alumunium 60 gr capacity	12 Pcs
GE-402	Graduated Cylinder	100 ml capacity	1 Pcs
GE-501	Porcelain Dish	12 cm dia., 250 ml capacity	1 Pcs
GE-820	Spatula	150 mm blade	1 Pcs
GE-825	Scraper	100 mm blade	1 Pcs

**SO-315**

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

SO-320 SHRINKAGE LIMIT TEST

ASTM D-427		AASHTO T-92	
For determining plastic limit of soil sample.			
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 Pcs
SO-322	Monel Shrinkage Dish	Flat bottom, 44,4 mm i.d., 12.7 mm height	1 Pcs
SO-323	Cristalizing Dish	Glass made	
Consist of :			
SO-323.1	Dish	Glass, 57.2 mm i.d., 12,7 mm height approx.	1 Pcs
SO-323.2	Overflow Dish	9 cm dia. approx.	1 Pcs
SO-324	Mercury	Bottled	1 kg
GE-396	Glass Plate	Glass 10 mm thick, 30 x 30 cm	1 Pcs
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

**SO-320**

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

SO-330A HYDROMETER ANALYSIS TEST

ASTMD-422		AASHTO T-88	
For determining grain size distribution of fine soil sample.			
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 Pcs
SO-333	Mechanical Stirrer	Electric, 220 V, cast alumunium frame, 10.000 rpm	1 Pcs
SO-334	Dispersion Cup	Stainless steel cup, 3.75" top dia., 2.6" bottom dia. 7" height brass baffles	1 Pcs
SO-335	Hydrometer Jar Bath	Steel sheet, fibre glass coated, temperature control	
Consist of:			
SO-335.1	Bath	Steel sheet, fibre glass coated, 60 x 30 x 40 cm	1 Pcs
SO-335.2	Water Heater	Electric, range ambient to 40°C	1 Pcs
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

**SO-330A**

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

SO-338 MECHANICAL END OVER END SHAKER

BS-1377

Electric, 220 V/ 50 Hz, 1 Phase, 50 RPM. Supplied complete with 2 glass jar 1000 ml and rubber bungs

Dimension (l x w x h)	40 x 60 x 60 cm
Gross Weight	30 Kg



SO-339A VACUUM STAND

To facilitate evacuation of air from soil/fine aggregate in flask. Welded steel frame, vacuum valve, adjustable platen height, provided with vacuum gauge, 6 flasks capacity. Supplied complete with vacuum pump and flasks



Dimension (l x w x h)	120 x 70 x 160 cm
Gross Weight	80 Kg

SO-340 SPECIFIC GRAVITY (HEATING METHODS)

ASTMD-854		AASHTO T-100	
For determining specific gravity of soil sample.			
GE-191	Hot Plate	Electric, 220 V	1 Pc
GE-237	Asbestos Wire Gauze	15 cm x 15 cm	1 Pcs
GE-363	Mixing Bowl	Stainless steel, 250 mm dia.	1 Pcs
GE-441	Density Bottle	100 ml capacity	3 Pcs
GE-473	Funnel	Glass	1 Pcs
GE-521	Wash Bottle	250 ml capacity	1 Pcs
GE-601	Thermometer	Range 0 - 100oC	1 Pcs
SO-336	Dispension Agent		
Also required, but not part of this set:			
AG-218A	Sieve No. 4		
AG-250	Pan & Cover		
GE-150	Cent O-Gram Balance		
GE-174	Drying Oven		
GE-452	Desiccator		
GE-749	Asbestos Gloves		



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

SO-340B SPECIFIC GRAVITY (VACUUM METHODS)

ASTM D-854	AASHTO T-100
For determining specific gravity of soil/aggregate sample.	

SO-342	Vacuum Hose	Plastic hose with rubber bung, 1 valve	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 - 50oC	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)	60 x 60 x 60 cm
Gross Weight	40 Kg

**SO-340B**

Also required, but not part of this set:

AG-218A	Sieve No. 4
AG-250	Pan & Cover
GE-150	Cent O-Gram Balance
GE-174	Drying Oven

SO-350 COMPACTION TEST SET

ASTM D-698 / D-1557		AASHTO T-99 / T-180	
For determining moisture - density relationship.			
SO-351	Standard Proctor Mold	Machined steel, galvanized, 4" i.d., 4.584" height, 2" height of collar	1 Pc
SO-352	Modified 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	Modified 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, 165 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

**SO-350**

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

SO-350B COMPACTION TEST SET ELEKTRIK (AUTOMATIC SOIL COMPACTOR)

SO-350A COMPACTION TEST SET ELECTRIC		
ASTM D-698/D-1557; T-99/ T-280.		
For determining moisture - density relationship.		
	Consist of :	
SO-350A	Electrical Loading Machine Electric, 220 V-AC, 1/2 HP, 1 Phase	1 set
SO-351	Standard Proctor Mold Machine steel, plated, 4" i.d., 4.584" height, 2" height of collar.	1 pc
SO-352	Modified Proctor Mold Machine steel, plated, 6" i.d., 4.584" height, 2" height of collar.	1 pc
SO-353	Standard Proctor Hammer Machine steel, plated, 12" drop height, 5,5 lbs weight.	1 pc
SO-354	Modified Proctor Hammer Machine steel, plated, 18" drop height, 10 lbs weight.	1 pc
SO-355	Extruder Steel frame, hydraulic jack.	1 set
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-405 A	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 Wire Brush	1 pc



Dimension	143 x 42 x 76 cm
Weight	196 kg

SO-360A LABORATORY CBR TEST SET ELECTRIC

SO-360A LABORATORY CBR TEST SET ELECTRIC		
ASTM D-1883 / AASHTO T-193		
	<u>Consist of :</u>	
SO-361 A	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 Machine steel, 6" i.d, 7" height, 2" height of collar.	3 pcs
SO-363	Spacer Dish Machine steel, 5 15/16" dia, 2.416" height.	1 pc
SO-364	Cutting Edge Machine steel, sharp edge.	1 pc
SO-365	Circular Surcharge Weight Machine steel, 5 7/8" dia 5 lbs weight.	3 pcs
SO-366	Slotted Surcharge Weight Machine steel, 5 7/8" dia 5 lbs weight.	3 pcs
SO-354	Modified Proctor Hammer Machine steel, plated, 18" drop height, 10 lbs weight.	1 pc
SO-367	Swell Plate	1 pc
SO-368	Swell Tripot	1 pc
SO-369	Filter Paper 6" dia., 100 sheets/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-405 A	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) : 110 x 70 x 120 cm		
Gross Weight : 200 kg		

**SO-360A**

Also required, but not part of this set:

SO-355 Extruder
 SO-367 Swell Plate
 SO-368 Swell Tripod
 SO-450 Moisture Content Test Set
 AG-218A Sieve No. 4
 GE-136 Dial Indicator
 GE-157 Heavy Duty Solution Balance
 GE-323 Rectangular Pan

SO-360B LABORATORY CBR TEST SET

ASTM D-1883		AASHTO T-193	
For determining the bearing ratio of soil.			
SO-361B	Mechanical Loading Machine	Steel frame, hand operated, two speeds, 10.000 lbs cap., 1.954" piston dia.	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
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



Also required, but not part of this set:

SO-355	Extruder
SO-367	Swell Plate
SO-368	Swell Tripod
SO-450	Moisture Content Test Set
AG-218A	Sieve No. 4
GE-136	Dial Indicator
GE-157	Heavy Duty Solution Balance
GE-323	Rectangular Pan

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

SO-370 COMBINATION PERMEAMETER

ASTM D-2434		AASHTO T-215	
For determining coefficient of permeability of soil sample.			
SO-371	Sample Chamber	Transparent fibre glass, 2 1/2" i.d., 8" height, compressive spring, cast aluminium body	1 Set
SO-372	Funnel	Plastic, wide mouth, with over flow	1 Pc
SO-373	Frame	Aluminium	1 Pc
SO-374	Porous Stone	2.47" dia., 1/2" thick	2 Pcs
GE-376	Burette	Glass, 100 ml capacity, without scale	1 Pc
GE-420	Beaker Glass	100 ml capacity	1 Pc
GE-700	Stop Watch	60 sec. sweep x 15 min.	1 Pc

Also required, but not part of this set:

GE-600	Thermometer
GE-710	Vernier Caliper

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



SO-390A COMBINATION PERMEAMETER TEST SET

For determining coefficient of permeability of compacted soil sample.

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

Also required, but not part of this set:

SO-353	Standard Proctor Hammer
SO-450	Moisture Content Test Set
AG-218A	Sieve No. 4
GE-157	Heavy Duty Solution Balance
GE-800	Round Scoop

SO-395A COMBINATION PERMEAMETER TEST SET

For determining coefficient of permeability of compacted soil sample.

SO-395	Compaction Permeameter	1/13.33 cu. ft. mold, 6" i.d., inlet-outlet connector, overflow valve, porous stone	1 Set
SO-391	Frame	Cast aluminium base, aluminium column, 3 burette (5, 10, 15 mm diameter)	1 Set
GE-402	Graduated Cylinder	100 ml capacity	1 Pc
GE-700	Stop Watch	60 sec. sweep	1 Pc

Also required, but not part of this set:

SO-354	Modified Proctor Hammer
SO-450	Moisture Content Test Set
AG-218A	Sieve No. 4
GE-157	Heavy Duty Solution Balance
GE-800	Round Scoop

SO-395A

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



SO-400 SAND CONE TEST SET

ASTM D-1556		AASHTO T-191	
For determining the density of compacted soil in place.			
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

Also required, but not part of this set:

SO-450	Moisture Content Test Set
GE-157	Heavy Duty Solution Balance
GE-396	Glass Plate

**SO-400**

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

SO-430 SPEEDY MOISTURE TESTER**AASHTO T-217**

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

SO-432	Speedy Gauge	M/C range 0-20 %, sens.: 0.2%, sample weight 20 gr	1 Pc
SO-434	Brass beam, Cast alumunium frame, 10 gr counter balance	Seamless metal, turning stoper, 6 1/2" dia. bottom, 1/2" neck dia.	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

**SO-430**

SO-430A SPEEDY MOISTURE TESTER NEW

AASHTO T-217			
For determining the moisture content of soil by means of calcium carbide gas pressure meter.			
SO-432	Speedy Gauge	M/C range 0-20 %, sens.: 0.2%, smple weight 20 gr	1 Pc
SO-434	Brass beam, Cast alumunium frame, 10 gr digital scale	Seamless metal, turning stoper, 6 1/2" dia. bottom, 1/2" neck dia.	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	Strong Plastic Suitcase with handle and safety foam	1 Pc

**SO-430A**

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

SO-450 MOISTURE CONTENT TEST SET

For determining moisture content of soil sample.

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

**SO-450**

SO-500 UNCONFINED COMPRESSION MACHINE MANUAL

ASTM D-2166		AASHTO T-208	
For determining stress strain relationship of cohesive soil without confining pressure.			
SO-501	Unconfined Compression Machine	Cast alumunium, gear box, adjustable height of top platen, hand operated 200 kg capacity	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

**SO-500**

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

Also required, but not part of this set:

SO-450 Moisture Content Test Set
GE-700 Stop Watch

SO-500A UNCONFINED COMPRESSION MACHINE ELEKTRIK

ASTM D-2166		AASHTO T-208	
For determining stress strain relationship of cohesive soil without confining pressure.			
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

**SO-500A**

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

SO-515 CONSOLIDATION TEST SET

ASTM D-2435		AASHTO T-216	
For determining the rate and magnitude of consolidation of soil when it is restrained laterally, loaded and drain axially.			
SO-516	Consolidation Frame		
Consist of :			
SO-516.1	Frame	Cast alumunium, two test unit	1 Set
SO-516.2	Loading Set	Three alternative lever arm 1:9, 1:10, 1:11	2 Set
SO-517	Consolidometer	Brass, 50.5 mm sample dia., porous stone, loading cap.	2 Set
SO-518	Loads	Slotted, machined steel	
Consist of :			
SO-518.1	Load	500 gr	4 Pcs
SO-518.2	Load	1000 gr	2 Pcs
SO-518.3	Load	2000 gr	2 Pcs
SO-518.4	Load	4000 gr	2 Pcs
SO-518.5	Load	8000 gr	2 Pcs
SO-519	Sample Tubes	Machine steel, 50.5 mm dia., galvanized, with extruder	1 Set
GE-135	Dial Indicator	Range 10.0 mm x 0.01 mm	2 Pcs
GE-840	Wire Saw	10 cm length approx.	1 Pc

**SO-515**

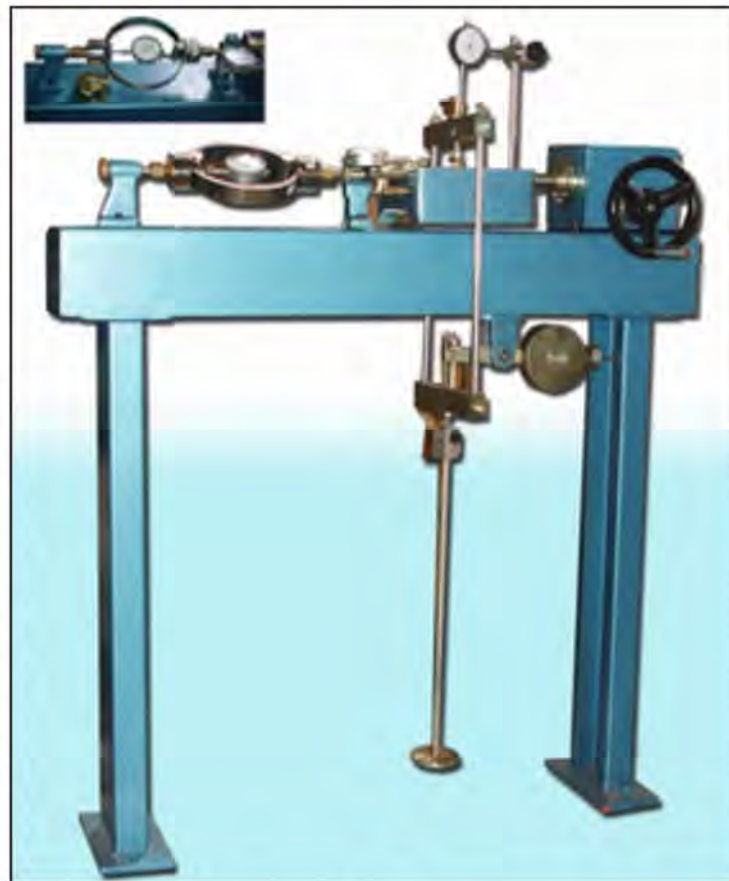
Also required, but not part of this set:	
SO-450	Moisture Content Test Set
GE-521	Wash Bottle
GE-700	Stop Watch
GE-710	Vernier Caliper
GE-820	Spatula

SO-525 DIRECT SHEAR TEST SET MANUAL

ASTM D-3080		AASHTO T-236	
For determining shearing resistance of soil sample.			
SO-526	Loading Machine		
Consist of :			
SO-526.1	Frame	Welded steel frame hand operated	1 Pc
SO-526.2	Loading Hanger	Machined steel, galvanized, supplied without load	2 Pc
SO-527	Shear Box	Cast aluminium 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	3167 gr weight	2 Pcs
SO-523.2	Load	6334 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

Also required, but not part of this set:

SO-450	Moisture Content Test Set
GE-521	Wash Bottle
GE-700	Stop Watch
GE-710	Vernier Caliper
GE-820	Spatula

**SO-525**

SO-525E DIRECT SHEAR TEST SET ELEKTRIK

ASTM D-3080		AASHTO T-236	
For determining shearing resistance of soil sample.			
SO-526E	Loading Machine with Elektrik System 220 V		
Consist of :			
SO-526.1	Frame	Welded steel frame hand operated	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	3167 gr weight	2 Pcs
SO-523.2	Load	6334 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

**SO-525E**

Also required, but not part of this set:

SO-450	Moisture Content Test Set
GE-521	Wash Bottle
GE-700	Stop Watch
GE-710	Vernier Caliper
GE-820	Spatula

SO-600 TRIAXIAL TEST

ASTM D-2850

Consist Of :

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

SO-600D DIGITAL TRIAXIAL TEST



ASTM D-2850

Spesifikasi

- Sensor akuisisi data digital
- Perangkat lunak analisis dan akuisisi data terintegrasi ramah pengguna Gerlink Triax 1.5 Alpha
- Kapasitas cell, back, dan tekanan pore hingga 10 kg/cm² (1000 Kpa)
- Transduser tekanan Keyence
- Pengukur regangan tanah digital Mutitoyo
- Kapasitas CAS load cell 1 ton
- Dilengkapi uji Unconsolidated Undrained (UU), Consolidated Undrained (CU), dan Consolidated Drained (CD)
- Dilengkapi ASTM D-2850 (UU), D-4767 (CU), dan D-7181 (CD)
- Kecepatan Constant Rate of Strain (CRS) dengan 24 pilihan tipe kecepatan dari 17 mm/menit sampai 0,0001 mm/menit
- Konsolidasi isotropik dengan pengukuran perubahan volume
- Proses saturasi dan kalkulasi nilai B
- Perangkat lunak monitoring diagram stres efektif dan total secara langsung dengan Gerlink Triax 1.5 Alpha
- Monitoring langsung diagram regangan tekanan pore dengan Gerlink Triax 1.5 Alpha
- Pilihan diameter spesimen 38 mm dan 50 mm
- Pengukuran semua sensor terkalibrasi
- Nilai tekanan cell dan back konstan secara otomatis

SO-760 TORSION VANE SHEAR TEST



Description :

To use, place rod tip on reasonably flat soil surface at least 25 mm in diameter, insert vanes into soil, and turn torque head until failure develops. The point at which vanes break free in soil is automatically locked on the dial so you can record soil's maximum shear value. Divisions on dial are as small as 0.05 kg/cm², allowing visual interpretation to nearest 0.01 kg/cm². Three vanes are provided so you can select the kg/cm² range you need: 1, 0.2 or 2.5. Use tester simultaneously with a penetrometer to rapidly evaluate internal friction degree of soil in shear strength or to determine if soil is essentially cohesive. Tester is approximately 3-1/8"L. Two-pocket carrying case with belt loop included. Case is 8"L x 6"W x 2-1/2"H.

SO-770 FIELD VANE SHEAR TEST IMPORT



Deskription :

The Vane Inspection Set provides a rapid check of the stability of foundations, excavations and trenches in clay. The total range is 0 to 260kPa (0 to 2.6 ton/sq. ft.). The scale built into the handle holds the peak value until reset. Accuracy is $\pm 10\%$. Three different sizes vanes are included with the set (16 x 32, 20 x 40 and 25.4 x 50.8mm). The effective ranges are 0 to 260, 0 to 130 and 0 to 65kPa (0 to 2.6, 0 to 1.3 and 0 to 0.65 tsf). A "dummy" vane is also included to calibrate the six 0.5 meter long extension rods for effects of soil friction. All items come in a compartmentalized vinyl carrying case with three wrenches. Shipping Weight: 13 lb (6kg).

SO-770A FIELD VANE SHEAR TEST LOKAL



Description :

The Field Vane Shear Tester takes direct readings of shear strength to depths up to 10 meters (33.3 ft). Three vane sizes allow for the direct determination of undrained shear strength of soft to stiff clays. The peak vane value is determined by a calibrated scale ring built into the head assembly. The cross handle is used both to push the vane to the desired test depth and apply the shearing torque. To correct for the skin friction of the extension rods, a dummy probe replaces the vane and a skin friction test is performed adjacent to the vane test location.

Hand-Held Field Vane Shear Tester

The Field Vane Shear Tester includes:

- Torque Head Assembly
- Ten Extension Rods, 100 cm long by 1 cm diameter
- Three Field Vanes as Table 1 Recommended Dimensions
- Skin Friction Probe
- Double Ended Wrench and Hard-Shell plastic carrying case with die-cut foam insert.
- Shipping Weight : 30 kg.

TABLE 1 Recommended Dimensions of Field Vanes ^A

Casing Size	Diameter, in. (mm)	Height, in. (mm)	Thickness of Blade, in. (mm)	Diameter of Vane Rod, in. (mm)
AX	1 1/2 (38.1)	3 (76.2)	1/16 (1.6)	1 1/2 (12.7)
BX	2 (50.8)	4 (101.6)	1/16 (1.6)	1 1/2 (12.7)
NX	2 1/2 (63.5)	5 (127.0)	1/8 (3.2)	1 1/2 (12.7)
4 in. (101.6 mm) ^B	3 5/8 (92.1)	7 1/4 (184.1)	1/8 (3.2)	1 1/2 (12.7)

^ASelection of the vane size is directly related to the consistency of the soil being tested, that is, the softer the soil the larger the vane diameter.

^BInside diameter.

SO-800 DRILLING MACHINE (BOR MESIN)**Spesifikasi :**

I. UNIT MACHINE			
1	Drilling Machine	1	set
2	Depth Capacity	100	m
3	Water Pump	1	set

II. Aksesoris			1	Set
Terdiri dari :				
1	Stang Bor drat AW @ 3 mtr	34	btg	
2	Stang Bor drat AW @ 1,5 mtr	2	btg	
3	Hammer 63,5 kg	1	bh	
4	As peluncur & pemukul	1	bh	
5	Split Spoon (SPT)	1	bh	
6	Kerekan RRC f 6"	1	bh	
7	Water Swivel drat AW	1	bh	
8	Houisting Swivel drat AW	1	bh	
9	Single Core Barrel 75mm x 1,20 m	1	bh	
10	Mata Bor Blade Bit f 2 ¾ "	4	set	
11	Kepala Tabung f 74mm drat AW	1	bh	
12	Tabung UDS f 74mm x 50 cm	1	bh	
13	Cassing f 89 mm(NW) @ 1,5 mtr	20	mtr	
14	Slang Tekan f 1"	6	mtr	
15	Slang Tekan f 2"	3	mtr	
16	Kunci Pipa 18" Heavy Duty	2	bh	
17	Tolls Bag : Tang, Obeng, Kunci Inggris	1	set	
18	Tolls Box Besi 1m x 0,25m x 0,25 m	1	bh	
19	Terpal 3 x 3 m	1	set	

SO-900 LIGHT WEIGHT DEFLECTOMETER (LWD) WITH GPS + THERMAL PRINT + FLASHDISK



LIGHT WEIGHT DEFLECTOMETER (LWD) adalah versi portable dari Falling Weight Deflectometer (FWD). Menggunakan Load Cell dan Geophone dengan akurasi sama dengan FWD. Dapat menguji Aspal Tipis, material daur ulang yang terikat dengan aspal berbasa dan langsung menguji **Subbase** dan **Subgrade** yang tidak terikat.

Output dari LWD dapat digunakan untuk menghitung Nilai CBR beberapa lapisan perkerasan. Standar yang digunakan SPESIFIKASI KHUSUS BINA MARGA SKh-1.A.01 Tahun 2020, ASTM 2583, IAN73 (Inggris) dan UNI 11531-1 (ANAS Italia)

Untuk type ini dilengkapi dengan Thermal Print dan Simpan Data ke Flashdisk, sehingga data bisa dibackup ke komputer dan penyimpanan data lainnya.

Type ini tidak divalidasi.

SPECIFICATION OF LWD + GPS + PRINT

LOADING MECHANISM :

Total Weight	15.0 kg
Drop Weight	10.0 kg
Max. Impact Force	7.07 kN
Duration of Impact	17.0 ± 1.5 ms
Max Drop Track Height	780 mm

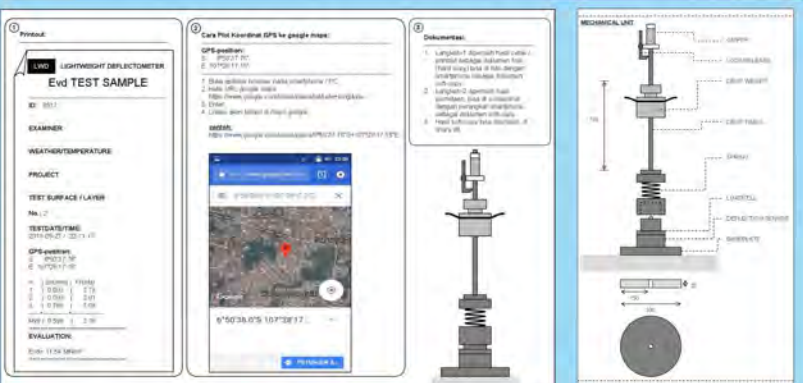
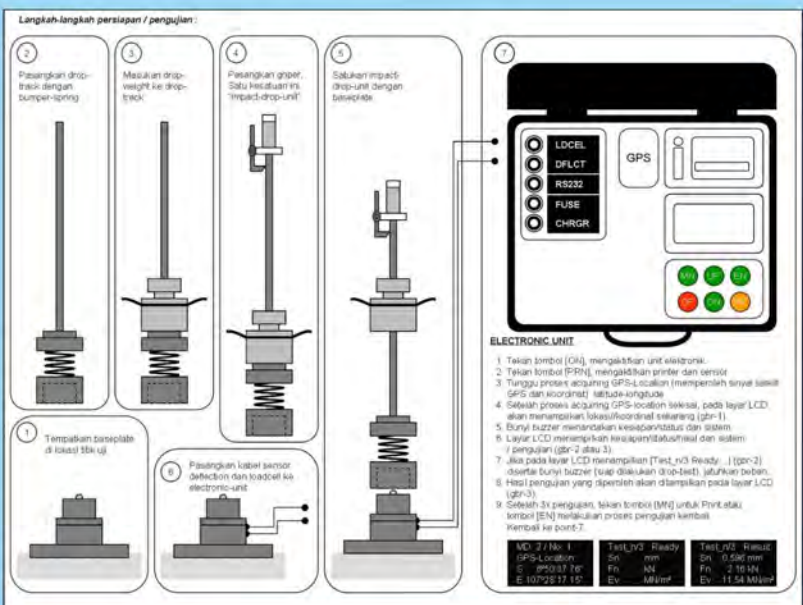
BASE PLATE / LOAD PLATE :

Diameter	300 mm
Thicknes	20 mm
Total Weight	15 kg

ELECTRONIC UNIT :

Dimension	210 x 80 x 25 mm
Deflection Measuring Range	0.1~2.0 mm ± 0.02
Measuring Range Evd	Evd < 225 MN/m ²
GPS	SIRF3
Display	LCD 128X64 px
Printer	Thermal Printer 85 mm width 39 mm diameter
Rechargeable battrey	6.2 V / 2000 mA
Charger	8.2 V / 500 mA

Dalam tempo waktu kurang dari 5 menit Nilai CBR bisa langsung diketahui, diprint dan disimpan dalam Flashdisk, sangat mudah.



SO-905 LIGHT WEIGHT DEFLECTOMETER (LWD) STANDAR BINA MARGA SKh.1.A.01 TAHUN 2020



LIGHT WEIGHT DEFLECTOMETER (LWD) adalah versi portable dari Falling Weight Deflectometer (FWD). Menggunakan Geophone dengan akurasi sama dengan FWD. Dapat menguji Aspal Tipis, material daur ulang yang terikat dengan aspal berbasa dan langsung menguji **Subbase** dan **Subgrade** yang tidak terikat.

Output dari LWD dapat digunakan untuk menghitung kekuatan beberapa lapisan perkerasan. Menggunakan Standar khusus Bina Marga yaitu : **SPESIFIKASI KHUSUS BINA MARGA SKh-1.A.01 Tahun 2020.**

Hanya dalam waktu kurang dari 5 menit Alat LWD ini dapat menghitung Nilai CBR tanah timbunan menggantikan Sand Cone atau Nilai CBR Existing dibawah perkerasan aspal untuk keperluan peningkatan jalan menggantikan alat DCP.

Alat LWD dilengkapi Laptop menggunakan Intel Core i7 – 10510U Processor; 512 GB Solid State Drive; Didukung 8 GB SODIMM DDR4; Windows 10 & Microsoft Office Original.

Sudah termasuk **Surat VALIDASI** dari BALAI PERKERASAN DAN LINGKUNGAN JALAN sebagai bukti bahwa Alat LWD produk BMT Digital sudah memenuhi standar Bina Marga. Software LWD merupakan versi update terakhir yaitu versi Desember 2020.

SPESIFIKASI TEKNIS :

LOADING MECHANISM :

Total Weight	15.0 kg
Drop Weight	10.0 kg
Max. Impact Force	7.07 kN
Duration of Impact	17.0 ± 1.5 ms
Max Drop Track Height	780 mm

BASE PLATE / LOAD PLATE :

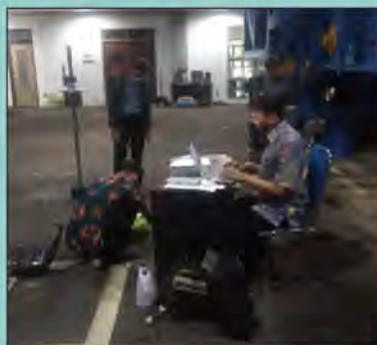
Diameter	300 mm
Thicknes	20 mm
Total Weight	15 kg

ELECTRONIC UNIT :

Dimension	210 x 80 x 25 mm
Deflection Meas. Range	0.1~2.0 mm ± 0.02
Measuring Range Evd	Evd < 225 MN/m ²
GPS	SIRF3

LAPTOP :

Processor	Intel Core i7, Dengan RAM SODIM 8 GB, SSD DRIVE.
Operating System	Microsoft Window 10 dan Office Home Original
LWD Program	Software LWD Original Update Desember 2020



PROSES VALIDASI LWD BMT DIGITAL OLEH TIM AHLI DARI BALAI PERKERASAN DAN LINGKUNGAN JALAN DIREKTORAT JENDERAL BINA MARGA - BANDUNG

SO-910 LIGHT WEIGHT DEFLECTOMETER (IMPORT) WITH GPS SYSTEM

**Specification :****Standard :**

RVS 08.03.04 march 2008

TP BF-StB part B 8.3

ASTM E 2835-11

Dynamic plate load test.

Used in earthwork and road construction to determine the soil bearing capacity and the compaction quality of soils and non cohesive subbases, as well as for soil improvement applications. The test method is suited for coarse-grain and mixed-grain soil having maximum grain size of 63 mm. The test method may be used to determine the dynamic modulus of deformation of soil in the range $E_{vd} = 15...70 \text{ MN/m}^2$.

ADVANTAGES over the static plate load tester:

- Immediate evaluation of each measurement
- Only 2 minutes per measurement point
- Time and cost-saving
- No need for construction plant as kentledge
- Easy to handle by one person
- Ability to test in inaccessible locations

Being easy to handle and providing immediate measuring results, the Light Weight Deflectometer is additionally suited for monitoring intra-company operations. It facilitates quick decisions for continuing construction work at the site.

The tester is supplied complete with loading unit, load plate, measuring instrument with SD card and instructions (in weatherproof full leather carrying case)

Total Weight: 30 kg approx.

LIGHT WEIGHT DEFLECTOMETER

TECHNICAL FEATURES

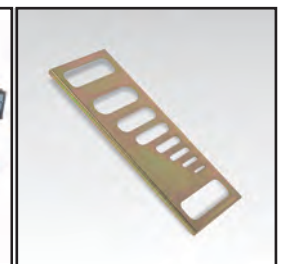
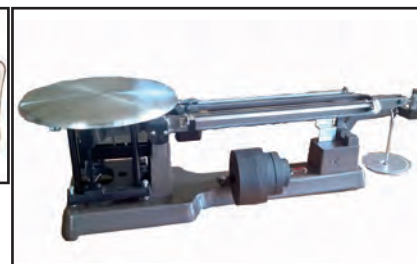
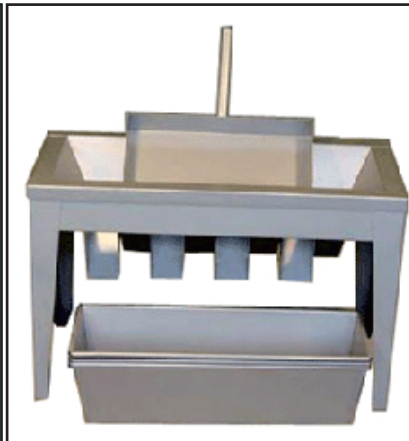
- Measuring instrument - small, portable and precise
- Intuitive menu navigation with 10 selectable languages
- Variable text input and pre-loading pulses
- Three settlement values shown during test
- Settlement mean value and E_{vd} modulus automatically calculated
- Drop weight: 10 kg (extendable to 15 kg)
- Measure range: E_{vd} 15-70 MN/m^2 (extendable to 105 MN/m^2)
- Measure depth: 600 mm
- Load plate $\varnothing$ 300 mm
- SD card for storage of 10.000 data tests
- Up to 1.500 tests with just one set of batteries (4xR6)
- High quality zinc plated galvanization of metallic parts, against corrosion

ACCESSORIES :

S228-05	Drop weight 15 kg
S228-10	Protocol software
S228-11	Thermal printer
S228-12	Integrated GPS system
S228-13	Transport cart
S228-14	Magnetic stand
S228-15	Transport box

TESTING EQUIPMENT CATALOGUE

2. AGGREGATE TESTING



TESTING EQUIPMENT CATALOGUE

B. AGGREGATE TESTING

1. AG-100 .. 106 Sample Splitter
2. AG-111 Gilson Sample Splitter
3. AG-122 Precission Sample Splitter
4. AG-170 Length Gauge
5. AG-180 Thickness Gauge
6. AG-200A .. 242A Brass Round Sieve
7. AG-300A .. 342A Stainless Steel Round Sieve
8. AG-400A .. 418 Wooden Sieve
9. AG-492 .. 493 Wet Washing Sieve
10. AG-510 Sieve Shaker
11. AG-515 Sieve Shaker
12. AG-600 Sand Equivalent Test Set
13. AG-610 Sand Equivalent Shaker
14. AG-621 Bottle Roller
15. AG-700 Los Angeles Abrassion Machine
16. AG-750 Aggregate Impact Test
17. AG-760 Aggregate Crushing Value Apparatus
18. AG-760A Aggregate Crushing Value Apparatus
19. AG-800 Bulk Density Test Set
20. AG-810A Absorption of Fine Aggregate Test Set
21. AG-825 Specific Gravity & Absorption of Coarse Aggregate Test Set
22. AG-830 Specific Gravity & Absorption of Coarse Aggregate Test Set
23. AG-910 Organic Impurities Test Set
24. AG-920 Soundness Test Set



Material Testing Equipment for :
Soil, Agregat, Cement, Concrete,
Asphalt, Laboratory and Field.

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Jl. Pasir Gede No. 44 Padalarang - Kabupaten Bandung Barat Jawa Barat 40553

E-mail : trading@bmtdigital.co.id - Website : <http://bmtdigital.co.id>

AG-100 - 1006 SAMPLE SPLITTER

For deviding dry material such as gravel and sand.

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

AG-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.



Dimension (l x w x h)	: 110 x 50 x 50 cm
Gross Weight	: 65 kg

AG-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
Gross Weight	: 10 kg

AG-170 LENGTH GAUGE

BS-812

For rapid measuring the length of aggregates.

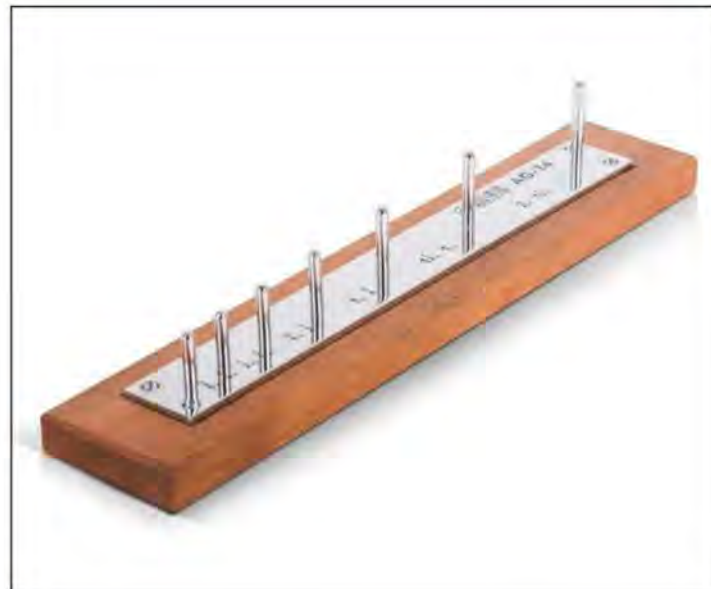
Hard wood base, steel base plate, distance:

89.0, 62.86, 39.9, 28.5, 20.1, 14.2 mm

Also required, but not part of this set :

GE-159 Dial O-Gram Balance

GE-363 Mixing Bowl



Dimension (l x w x h)	: 50 x 12 x 18 cm
Gross Weight	: 5 kg

AG-180 THICKNESS GAUGE

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

Also required, but not part of this set :

GE-153 Dial O-Gram Balance

GE-363 Mixing Bowl



Dimension (l x w x h)	: 30 x 20 x 5 cm
Gross Weight	: 3 kg

AG-200A - 250 STAINLESS STEEL ROUND SIEVE

For determining grain size distribution of Soil Particles, Sand or Gravel.
Stainless frame 8" diameter and 4" height

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



Dimension (l x w x h)
22 x 22 x 6.5 cm

Gross Weight
1.0 kg

AG-400 - 418 WOODEN SIEVE

For determining grain size distribution of Coarse Aggregate, many use in field.



AG-492-493 WET WASHING SIEVE

For wet sieving of soil, cement and fine aggregates.



AG-492	WET WASHING SIEVE # 200, 8" dia., 4" depth.	1	pc
AG-493	WET WASHING SIEVE # 200, 8" dia., 8" depth.	1	pc

AG-510 SIEVE SHAKER MANUAL

Hand operated, steel box, 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	: 50 kg

AG-515 SIEVE SHAKER ELEKTRIK

Sieve shaker elektrik adalah alat yang sangat dibutuhkan untuk melakukan gradasi agregat kasar maupun agregat halus. Dengan menggunakan sieve shaker elektrik maka gerakan akan lebih konstan sehingga hasilnya akan lebih baik

Spesification :

Power Electric : 220 V-AC

Power Consumption : 200 Watt

Steel Base

Cast Alumunium Pulley

8" sieve dimeter.

8 sieve capacity

supplied without sieve/pan & cover.



Dimension (l x w x h)	: 50 x 50 x 100 cm
Gross Weight	: 60 kg

AG-515M ELECTROMAGNETIC SIEVE SHAKER WITH TIMER

Electromagnetic Sieve shaker adalah alat yang sangat dibutuhkan untuk melakukan gradasi agregat kasar maupun agregat halus. Dengan menggunakan Electromagnetic sieve shaker maka gerakan akan lebih halus, konstan sehingga hasilnya akan lebih baik.

Electromagnetic Sieve Shaker tipe ini dilengkapi dengan timer, sehingga ketika proses pengguncangan sudah mencapai 10 menit alat akan berhenti sendiri.

Spesification :

Power Electric : 220 V-AC

Power Consumption : 200 Watt

Steel Base

Cast Alumunium Pulley

8" sieve dimeter.

8 sieve capacity

supplied without sieve/pan & cover.



Dimension (l x w x h)	: 50 x 50 x 100 cm
Gross Weight	: 60 kg

AG-515T SIEVE SHAKER ELEKTRIK WITH TIMER

Sieve shaker elektrik adalah alat yang sangat dibutuhkan untuk melakukan gradasi agregat kasar maupun agregat halus. Dengan menggunakan sieve shaker lelektrik maka gerakan akan lebih konstan sehingga hasilnya akan lebih baik.

Sieve Shaker tipe ini dilengkapi dengan timer, sehingga ketika proses pengguncangan sudah mencapai 10 menit alat akan berhenti sendiri.

Spesification :

Power Electric : 220 V-AC

Power Consumption : 200 Watt

Steel Base

Cast Alumunium Pulley

8" sieve dimeter.

8 sieve capacity

supplied without sieve/pan & cover.



Dimension (l x w x h)	: 50 x 50 x 100 cm
Gross Weight	: 60 kg

AG-600 SAND EQUIVALENT TEST

ASTM D-2419		AASHTO T-176
For indicating relative proportion of clay like material and fine dust in granular soil or graded aggregate.		
	Consist of:	
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, syphon.	1 set
AG-603	Weight Foot Assembly Machine steel, galvanized, 1000 gr weight, sand reading indicator.	1 set
AG-604	Stock Solution Calcium chloride, 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)		: 60 x 30 x 90 cm
Gross Weight		: 20 kg

**AG-600**

AG-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

Gross Weight

: 20 kg



AG-621 BOTTLE ROLLER

ASTM D-2419

AASHTO T-176

To give greater uniformity action, machine operated mounting bracket with cylinder holder, two spring steel straps, built in counter, metal case. Supplied with 1pc graduated cylinder.

Power Source Electric, 220 V, 100 Watt, 50 Hz, 1 Phase, 80 RPM.

Dimension (l x w x h) : 60 x 30 x 90 cm



AG-700 LOS ANGELES ABRASSION MACHINE

Dimension (l x w x h)	: 60 x 30 x 90 cm
-----------------------	-------------------

Also required, but not part of this set :

- AG-224ASieve No. 12
- GE-157 Heavy Duty Solution Balance
- GE-174 Drying Oven
- GE-363 Mixing Bowl
- GE-801 Round Scoop

ASTM C-131

AASHTO T-96

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

AG-701	Los Angeles Abrasion 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-RUN-STOP-JOG-RESET-500-1000
	Power	Electromotor, dual voltage 110-220 V, 750 Watt, 1 Phase, 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

AG-750 AGGREGATE IMPACT TEST

BS-812

For determining the aggregate impact value and resistance of aggregate to sudden shock or impact.

AG-751	Impact Machine	1	set
	Heavy-duty steel construction,		
	safety locking bar, built in counter		
AG-752	Cylindrical Measure	1	pc
	Mechanical steel, 75 mm dia, 50 mm deep.		
AG-753	Tamping Rod	1	pc
	Galvanized steel, 3/8" dia, 8" length.		

Dimension (l x w x h)	: 50 x 30 x 90 cm
Gross Weight	: 80 kg



AG-760 AGGREGATE CRUSHING VALUE APPARATUS

BS-812

For determining the chrushing properties of bulk aggregate applying 400 kN load over a periode of 10 minutes.

AG-761	Cylinder	1	pc
	Machine steel, 154 mm dia.		
AG-762	Plunger	1	pc
	Machine steel.		
AG-763	Base Plate	1	pc
	Machine steel.		
AG-764	Metal Measure	1	pc
	115 mm dia., 180 mm deep.		
AG-765	Tamping Rod	1	pc
	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

AG-760A AGGREGATE CRUSHING VALUE APPARATUS

BS-812

For determining the chrushing properties of bulk aggregate applying 400 kN load over a periode of 10 minutes.

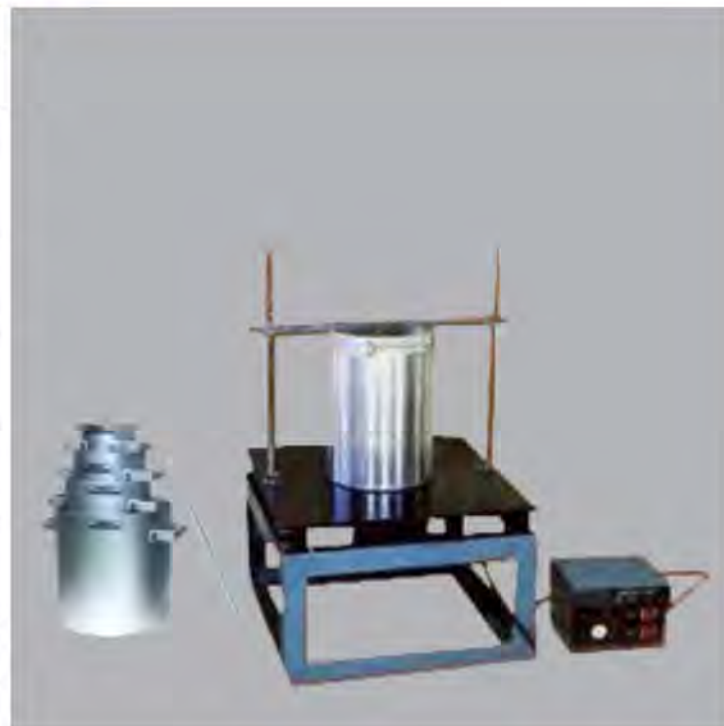
AG-761 A	Cylinder : Machine steel, 78 mm dia.	1 pc
AG-762 A	Plunger : Machine steel.	1 pc
AG-763 A	Base Plate : Machine Steel	1 pc
AG-764 A	Metal Measure : 57 mm dia., 90 mm deep.	1 pc
AG-765 A	Tamping Rod	1 pc
	Galvanized steel, 8 mm dia., 300 mm	
	length, hemispherical at both ends.	

Dimension (l x w x h)	: 20 x 20 x 35 cm
Gross Weight	: 20 kg



AG-800 BULK DENSITY TEST SET

ASTM C-29		AASHTO T-19
For determining bulk density of fine, coarse or mix aggregate.		
CO-410	Vibrating Table Variable speed up to 3600 rpm, separate control box, 50 x 50 cm table.	1 set
AG-801	Container Machined steel, galvanized, 3 litre capacity.	1 pc
AG-802	Container Machined steel, galvanized, 10 litre capacity.	1 pc
AG-803	Container Machined steel, galvanized, 15 litre capacity.	1 pc
AG-804	Container Machined steel, galvanized, 30 ltr capacity.	1 pc
Dimension (l x w x h)		: 60 x 60 x 100 cm
Gross Weight		: 150 kg



AG-810A ABSORPTION OF FINE AGGREGATE TEST

ASTM C-128	AASHTO T-84
For determining the water absorption of fine aggregate at saturated surface dry.	

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	Volumetric Flask 500 ml capacity.	1 pc
GE-820	Spatula Plastic Handle.	1 pc



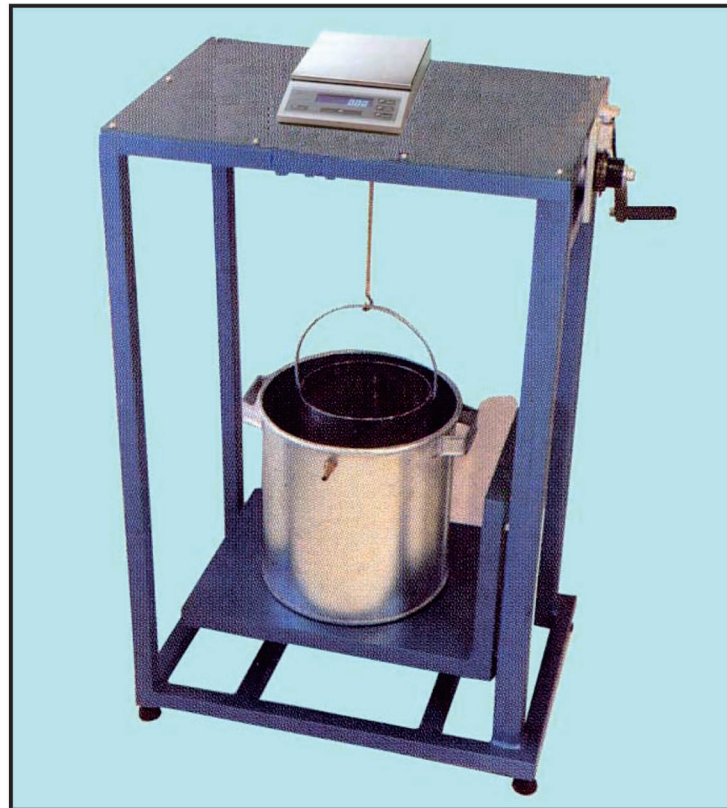
Dimension (l x w x h)	: 40 x 40 x 30 cm
Gross Weight	: 7 kg

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

ASTM C-127	AASHTO T-85
For determining specific gravity and water absorption of coarse aggregate.	

CO-826	Dunagan Balance Consist of :	
AG-826.1	Mounting Table Welded steel table, elevated container support.	1 set
AG-826.2	Water Container Galvanized container, 20 ltr capacity.	1 pc
GE-157	Digital Balance With Lithium battrey 20 kg capacity, 1 gr sensitivity suplied complete with weights.	1 set
AG-822	Sample Basket # 8 mesh, 200 mm dia. 200 mm height.	1 pc

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



AG-830 SPECIFIC GRAVITY & ABSORPTION OF FINE AGGREGATE TEST SET

ASTM C-128	AASHTO T-84
For determining the water absorption of fine aggregate at saturated surface dry..	

AG-831	Dunagan Balance Consist of :	
AG-831.1	Mounting Table Welded steel table, elevated container support.	1 pc
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



AG-910 ORGANIC IMPURITIES TEST SET

ASTM C-40	AASHTO T-21
For an approximate determination of organic compound in sand.	

AG-911	Consist of : 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



AG-920 SOUNDNESS TEST SET

ASTM C-88	AASHTO T-104
For determining aggregate resistance to desintegration by saturated solution of sodium sulfate or magnesium sulfate.	

AG-921	Consist of : Stock Solution Sodium sulphate solution (Na ₂ SO ₄) 1 litre	1 btl
GE-363	Mixing Bowl Stainless steel, 24 cm dia.	1 pc
GE-424	Beaker Glass 1000 ml capacity.	1 pc
GE-600	Thermometer Glass, 0 - 100 deg.C	1 pc

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



TESTING EQUIPMENT CATALOGUE

3. CEMENT TESTING



Material Testing Equipment for :
Soil, Agregat, Cement, Concrete,
Asphalt, Laboratory and Field.

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TESTING EQUIPMENT CATALOGUE

C. CEMENT TESTING

1. CE-100 Air Permeability of Porland Cement by Fineness Device
2. CE-110 Specific Gravity of Hydraulic Cement Test
3. CE-120 Time of Setting of Hydraulic Cement by Vicat Needle
4. CE-160 Compressive Strength of Hydraulic Cement Mortar
5. CE-160A Compressive Strength of Hydraulic Cement Mortar
6. CE-170 Compression Machine
7. CE-175 Compression Machine



Material Testing Equipment for :
Soil, Agregat, Cement, Concrete,
Asphalt, Laboratory and Field.

BINA MUTU TEKNOTAMA DIGITAL

Jl. Pasir Gede No. 44 Padalarang - Kabupaten Bandung Barat Jawa Barat 40553

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CE-100 AIR PERMEABILITY OF PORTLAND CEMENT BY FINENESS DEVICE

ASTM : C-204

AASHTO : T-153

For determining fineness of portland cement by air permeability

	<u>Consist of :</u>	
CE-101	Stand	1 pc
	Polished wood	
CE-102	U-Tube Manometer	1 pc
	Glass tubing with valve.	
CE-103	Permeability Cell	1 pc
	Stainless steel.	
CE-104	Perforated Disc	1 pc
	Non corroding metal.	
CE-105	Plunger	1 pc
	Stainless steel.	
CE-107	Stock Solution	0,3 ltr
	Dibutylphthalate.	
CE-108	Filter Paper	1 box
	Type 1, grade B.	
GE-473	Funnel	1 pc
	Glass.	

Dimension (l x w x h) : 30 x 25 x 70 cm

Gross Weight : 10 kg

**CE-100**

CE-110 SPECIFIC GRAVITY OF HYDRAULIC CEMENT TEST

ASTM : C-188

AASHTO : T-153

For determining specific gravity of hydraulic cement

	<u>Consist of :</u>	
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 deg.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

CE-120 TIME OF SETTING OF HYDRAULIC BY VICAT NEEDLE

ASTM : C-187/C-191

AASHTO : T-129/T-131

For determining normal consistency and time of setting of hydraulic cemen

CE-120	TIME OF SETTING OF HYDRAULIC CEMENT BY VICAT NEEDLE	1 set
	ASTM C-187/C-191; T-129/T-131	
	<u>Consist of :</u>	
CE-121	Vicat Apparatus	1 pc
	Cast alumunium frame stainless steel rod. 0 - 50 mm scale.	
CE-123	Initial needle	1 pc
	Steel needle, 1 mm dia, with footing, brass thread.	
CE-124	Final needle	1 pc
	Steel needle, 1 mm dia, brass thread.	
CE-125	Conical Ring Mold	1 pc
	70 mm base dia, 60 mm top dia, 40 mm height.	
CE-126	Glass plate	1 pc
	10 mm thick, 12 x 12 cm.	



Dimension (l x w x h)

: 60 x 30 x 30 cm

Gross Weight

: 8 kg

CE-160 COMPRESSIVE STRENGTH OF HYDRAULIC CEMENT MORTAR

ASTM : C-109

AASHTO : T-106

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

CE-160	COMPRESSIVE STRENGTH OF HYDRAULIC CEMENT MORTAR	1 set
	ASTM C-109 / AASHTO T-106	
	<u>Consist of :</u>	
CE-161	Cement Cube Mold	1 pc
	Cast iron, 3 gang , 2" x 2" x 2"	
CE-162	Flow Table, Hand operated.	
	<u>Consist of :</u>	
CE-162.1	Frame	1 pc
	Welded steel, 10" dia., 1/2" drop, brass table.	
CE-162.2	Flow Mold	1 pc
	Brass, base 101.6 mm dia top 69.85 mm dia., height 50.8 mm.	
GE-713	Vernier Caliper 300 mm capacity.	1 pc
CE-168	Tamper Plastic, 1/2" x 1" face.	1 pc
GE-396	Glass Plate 10 mm thick, 30 x 30 cm.	1 pc
GE-403	Graduated Cylinder 250 ml capacity.	1 pc
GE-825	Scraper Plastic handle.	1 pc

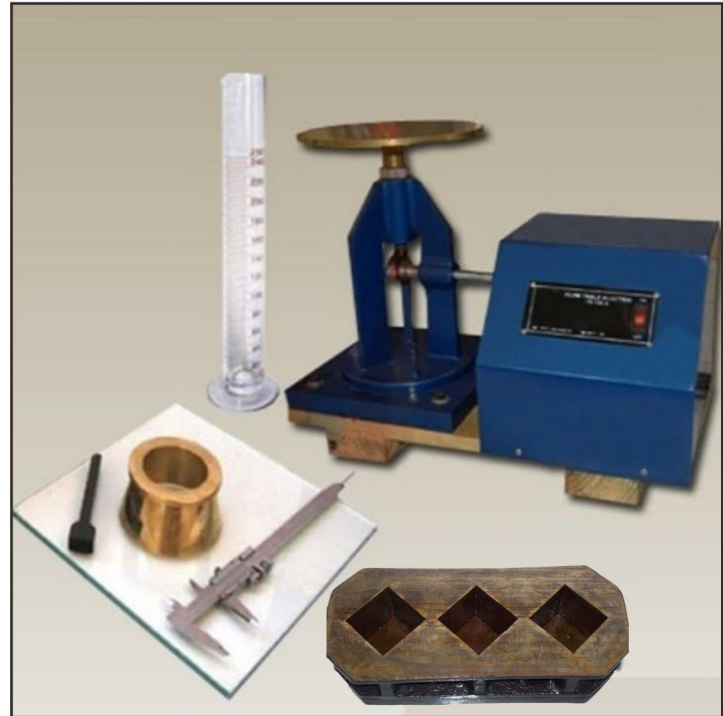


Dimension (l x w x h)	: 60 x 60 x 60 cm
Gross Weight	: 50 kg

CE-160A COMPRESSIVE STRENGTH OF HYDRAULIC CEMENT MORTAR ELECTRIC

ASTM : C-109	AASHTO : T-106
For determining compressive strength of hydraulic cement mortar by using 2" cube mold	

CE-160	COMPRESSIVE STRENGTH OF HYDRAULIC CEMENT MORTAR ASTM C-109 / AASHTO T-106 Consist of :	1 set
CE-161	Cement Cube Mold Cast iron, 3 gang , 2" x 2" x 2"	1 pc
CE-162	Flow Table, Hand operated. Consist of :	
CE-162.1	Frame Welded steel, 10" dia., 1/2" drop, brass table.	1 pc
CE-162.2	Flow Mold Brass, base 101.6 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.	1 pc
GE-396	Glass Plate 10 mm thick, 30 x 30 cm.	1 pc
GE-403	Graduated Cylinder 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

CE-161 CEMENT CUBE MOLD 3 GANG

ASTM : C-109

AASHTO : T-106

For make a cement mortar test specimen measuring 2" x 2" x 2"

CODE	DESCRIPTION	QTY
CE-161	Cement Cube Mold Cast Iron, 3 gang Inner dimesion 2" x 2" x 2"	1 pc



Dimension (l x w x h)

: 15 x 5,5 x 6 cm

Gross Weight

: 10 kg

CE-170 COMPRESSION MACHINE FOR CEMENT MORTAR**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 KAN).

Hand operated hydraulic pump

100 kN capacity.



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

CE-170A DIGITAL COMPRESSION MACHINE FOR CEMENT MORTAR**ASTM : C-109**

For determining compressive strength of cement mortar

For sample size :

- 2" x 2" x 2" cube or
- 100 mm dia. x 200 mm height cylinder.
- Steel frame,
- Digital Force Gauge (Calibrated KAN).
- Electric Hydraulic pump
- 500 kN capacity.



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



Material Testing Equipment for :
Soil, Aggregat, Cement, Concrete,
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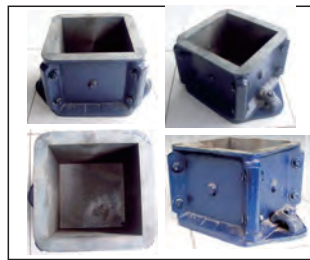
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TESTING EQUIPMENT CATALOGUE

4. CONCRETE TESTING



Material Testing Equipment for :
Soil, Agregat, Cement, Concrete,
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TESTING EQUIPMENT CATALOGUE

D. CONCRETE TESTING

1. CO-300 .. 301 Concrete Cylinder Mold
2. CO-311 .. 312 Concrete Cube Mold
3. CO-317A .. 319A Concrete Beam Mold
4. CO-321.3 .. 321.5 Compression Machine
5. CO-325.3 .. 325.5 Compression Machine
6. CO-330 Hydraulic Concrete Beam Testing Machine
7. CO-351 Mechanical Concrete Beam Testing Machine
8. CO-355 Compacting Factor Apparatus
9. CO-370 Slump Test Set
10. CO-370A Slump Test Set
11. CO-380 Vebe Time
12. CO-400 Air Content of Fresh Mixed Concrete
13. CO-410 Vibrating Table
14. CO-470 Vertical Cylinder Capping Set
15. CO-500 Modulus Elasticity in Concrete Test Set
16. CO-525 Split Tensile Test
17. CO-550 Concrete Test Hammer
18. CO-555 Calibration Anvil
19. CO-610 Laboratory Concrete Mixer



Material Testing Equipment for :
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CO-301..106 CONCRETE CYLINDER MOLD

Cast iron, for forming concrete cylinder sample

CE-300	Concrete Cylinder Mold	10 cm dia x 20 cm height
CE-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



CO-301

AG-310 CONCRETE CYLINDER AND CUBE MOLD PLASTIC

Hard Plastic, for forming concrete cylinder and cube sample

CE-301A	Concrete Cylinder Mold	15 cm dia x 30 cm height
CE-312A	Concrete Cube Mold	15 x 15 x 15 cm

Gross Weight Cube Mold	2 kg before packing
Gross Weight Cylinder Mold	5 kg before packing

**AG-310**

CO-315 CONCRETE CUBE MOLD

Cast iron, for forming concrete cube sample

CE-314	Concrete Cube Mold	10 x 10 x 10 cm
CE-315	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
Gross Weigh:	14 kg / 19 kg



CO-316 CONCRETE BEAM MOLD

Cast iron, for forming concrete beam sample

CE-317A	Concrete Beam Mold	60 x 15 x 15 cm
CE-319A	Concrete Beam Mold	80 x 20 x 20 cm

**CO-317A**

Dimension (l x w x h)	: 70 x 20 x 20 cm / 90 x 25 x 25 cm
Gross Weight	: 40 kg / 60 kg

CO-325.3/325.4/325.5 COMPRESSION MACHINE ELECTRIC

ASTM C-39	
For determining compressive strength of concrete cube 15 x 15 x 15 cm or concrete cylinder 15 cm dia. x 30 cm height	
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.	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 Phase Single 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 KAN
Compressive Platen	Upper : 180 x 180 mm, ball seating Lower : 250 mm diameter
Clearance	Horizontal: 290 mm Vertikal : 310 mm
Dimension: Weight :	660 x 600 x 1400 mm (l x w x h) approx. 500 kg

CO-325.3	Compression Machine 1500 kN capacity, 10 kN increments
CO-325.4	Compression Machine 2000 kN capacity, 10 kN increments
CO-325.5	Compression Machine 3000 kN capacity, 20 kN increments

CO-325.3/4/5



CO-326.3/326.4/326.5 COMPRESSION MACHINE DIGITAL

ASTM C-39	
For determining compressive strength of concrete cube 15 x 15 x 15 cm or concrete cylinder 15 cm dia. x 30 cm height	
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.	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 Phase Single action, variable speed 6.000 ml reservoir capacity Maximum working pressure 50.000 kPa Single action, gravity return
Digital Display	Digital Display for result Compressive strength of Concrete Calibrated by KAN
Compressive Platen	Upper : 180 x 180 mm, ball seating Lower : 250 mm diameter
Clearance	Horizontal: 290 mm Vertikal : 310 mm
Dimension: Weight :	660 x 600 x 1400 mm (l x w x h) approx. 500 kg

CO-326.3	Digital Compression Machine 1500 kN capacity, 10 kN increments
CO-326.4	Digital Compression Machine 2000 kN capacity, 10 kN increments
CO-326.5	Digital Compression Machine 3000 kN capacity, 20 kN increments

CO-326.3/4/5



CO-327.3/327.4/327.5 COMPRESSION MACHINE DIGITAL WITH THERMAL PRINTING & FLASHDISK

ASTM C-39	
For determining compressive strength of concrete cube 15 x 15 x 15 cm or concrete cylinder 15 cm dia. x 30 cm height	
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.	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 Phase Single action, variable speed 6.000 ml reservoir capacity Maximum working pressure 50.000 kPa Single action, gravity return
Digital Display	Digital Display for data compressive strength of concrete Calibrated by KAN
Thermal Printing	Recording data concrete compressive strength test results of digital transducer and Print Out Data with Thermal Printing.
Compressive Platen	Upper : 180 x 180 mm, ball seating Lower : 250 mm diameter
Clearance	Horizontal: 290 mm Vertikal : 310 mm
Dimension: Weight :	660 x 600 x 1400 mm (l x w x h) approx. 500 kg

CO-327.3	Digital Compression Machine 1500 kN capacity, 10 kN increments
CO-327.4	Digital Compression Machine 2000 kN capacity, 10 kN increments
CO-327.5	Digital Compression Machine 3000 kN capacity, 20 kN increments

CO-327.3/4/5

CO-327.3A/4A/5A COMPRESSION MACHINE DIGITAL COMPUTERIZED

ASTM C-39	
For determining compressive strength of concrete cube 15 x 15 x 15 cm or concrete cylinder 15 cm dia. x 30 cm height	
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.	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 Phase Single action, variable speed 6.000 ml reservoir capacity Maximum working pressure 50.000 kPa Single action, gravity return
Digital Display	Digital Display for data compressive strength of concrete Calibrated by KAN
Computerized	Recording data concrete compressive strength test results of digital transducer with a special computer program. Computer Program installed in a Notebook / Laptop with Intel Processor Core i3 minimum and RAM 4gb minimum. Package Laptop included in my pricelist
Compressive Platen	Upper : 180 x 180 mm, ball seating Lower : 250 mm diameter
Clearance	Horizontal: 290 mm Vertikal : 310 mm
Dimension: Weight :	660 x 600 x 1400 mm (l x w x h) approx. 500 kg

CO-327.3A	Digital Compression Machine 1500 kN capacity, 10 kN increments
CO-327.4A	Digital Compression Machine 2000 kN capacity, 10 kN increments
CO-327.5A	Digital Compression Machine 3000 kN capacity, 20 kN increments

CO-327.3/4/5

CO-328.3/328.4/328.5 COMPRESSION MACHINE DIGITAL WITH LCD TOUCHSCREEN AND THERMAL PRINTING

ASTM C-39	
For determining compressive strength of concrete cube 15 x 15 x 15 cm or concrete cylinder 15 cm dia. x 30 cm height	
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.	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 Phase Single action, variable speed 6.000 ml reservoir capacity Maximum working pressure 50.000 kPa Single action, gravity return
Digital Display Touchscreen LCD Monitor	Digital Display Touchscreen LCD Monitor for data compressive strength of concrete Calibrated by KAN
Pengaturan Touchscreen	- Pemilihan Type Sample langsung Cylinder atau Kubus - Data bisa diprint langsung dengan Thermal Print yang sudah tersemat
Compressive Platen	Upper : 180 x 180 mm, ball seating Lower : 250 mm diameter
Clearance	Horizontal: 290 mm Vertikal : 310 mm
Dimension: Weight :	660 x 600 x 1400 mm (l x w x h) approx. 500 kg

CO-327.3	Digital Compression Machine 1500 kN capacity, 10 kN increments
CO-327.4	Digital Compression Machine 2000 kN capacity, 10 kN increments
CO-327.5	Digital Compression Machine 3000 kN capacity, 20 kN increments

CO-328.3/4/5

**CO-329.3/329.4/329.5 COMPRESSION MACHINE DIGITAL LCD TOUCHSCREEN WITH ANDROID OPERATION
- THERMAL PRINT, SAVE DATA TO FLASHDISK + BEAM TESTING**

ASTM C-39	
For determining compressive strength of concrete cube 15 x 15 x 15 cm or concrete cylinder 15 cm dia. x 30 cm height	
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.	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 Phase Single action, variable speed 6.000 ml reservoir capacity Maximum working pressure 50.000 kPa Single action, gravity return
Digital Display	Digital Display for data compressive strength of concrete Calibrated by KAN
Computerized	Recording data concrete compressive strength test results of digital transducer with a special computer program.
Compressive Platen	Upper : 180 x 180 mm, ball seating Lower : 250 mm diameter
Clearance	Horizontal: 290 mm Vertikal : 310 mm
Dimension: Weight :	660 x 600 x 1400 mm (l x w x h) approx. 500 kg

CO-329.3	Digital Compression Machine 1500 kN capacity, 10 kN increments
CO-329.4	Digital Compression Machine 2000 kN capacity, 10 kN increments
CO-329.5	Digital Compression Machine 3000 kN capacity, 20 kN increments

CO-329.3/4/5

CO-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., hidraulic 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	: 110 kg

CO-335 ELEKTRIC CONCRETE BEAM TESTING MACHINE DIGITAL**ASTM C-78**

For determining the flexural strength of concrete beam by using a simple beam with third point loading.

Specification :

- 100 kN capacity
- Elektrik hydraulic pump
- Digital 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	: 110 kg

CO-336 DIGITAL CONCRETE BEAM TESTING WITH THERMAL PRINT**ASTM C-78**

For determining the flexural strength of concrete beam by using a simple beam with third point loading. 100 kN cap., Elektrik hidraulic pump, digital manometer reading, thermal printing and Save Data to Flash Disk, sample size 15 x 15 x 60 cm, welded steel construction

Spesifikasi :

Capacity : 100 kN - 250 kN
 Pump : hydraulic electric pump
 Sample : size 15 x 15 x 60 cm
 Construction : welded steel
 Reading : Digital indicator
 Printer : Thermal Printing
 Storage : Save to Flash Disk
 Supplied completed with Calibration Certificate of KAN (Komite Akreditasi Nasional)

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



CO-337 DIDGITAL CONCRETE BEAM TESTING TOUCHSCREEN + THERMAL PRINT**ASTM C-78**

For determining the flexural strength of concrete beam by using a simple beam with third point loading. 100 kN cap., Elektrik hidraulic pump, digital manometer reading with LCD Touchscreen, thermal printing and save data to Flash disk sample size 15 x 15 x 60 cm, welded steel construction

Spesifikasi :

Capacity : 100 kN - 250 kN
 Pump : hydraulic electric pump
 Sample : size 15 x 15 x 60 cm
 Construction : welded steel
 Reading : Digital indicator
 Display : LCD Touchscreen
 System : Input Data HP Android
 Communication : Bluetooth
 Printer : Thermal Printing
 Storage : Save to Flash Disk
 Supplied completed with Calibration Certificate of KAN (Komite Akreditasi Nasional)

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



CO-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 capacity
 - Mechanical Jack Hand Operated
 - Proving Ring Reading with KAN Calibrated
 - Sample Size 15 x 15 x 60 cm
 - Welded Steel Construction
- It is suitable for project sites where there is no power source, or low and unstable power

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



CO-355 COMPACTING FACTOR APARATUS**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

CO-370A SLUMP TEST SET

ASTM C-143		AASHTO T-119	
For determining slump/workability of concrete both in the laboratory and in the field			
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		: 40 kg	



CO-380 VEBE TIME TEST SET

BS-1881

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

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



CO-400 AIR CONTENT OF FRESH MIXED CONCRETE

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.			
CO-401	Air Entrainment Meter	5 ltr capacity, 3" maximum aggregate 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 x 40 x 100 cm
Gross Weight	: 20 kg

CO-410 VIBRATING TABLE

Vibrating Table For compacting aggregate in steel container or concrete sample in cube / cylinder mold.

Spesification :

- Steel construction
- Dimension 50 x 50 cm
- Table Separated control box
- Variabel speed up to 3.600 rpm.

Dimension (l x w x h)	: 55 x 55 x 85 cm
Gross Weight	: 70 kg

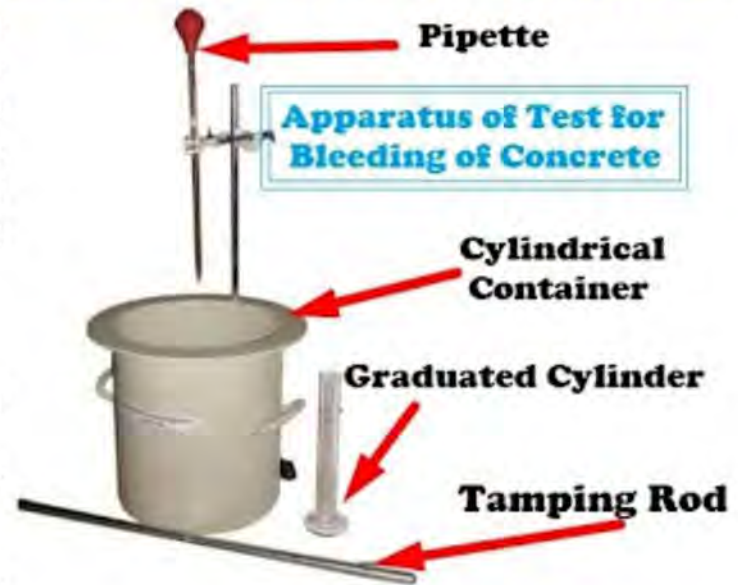


CO-420 FRESHLY MIXED CONCRETE BLEEDING

The purpose of this test is to determine the level of bleeding of a concrete mixture. The test object that must be prepared is in the form of a fresh concrete mixture used in the manufacture of concrete cylinders and slump test. The tools used were a pipet dropper and a 10 ml measuring tube.

Spesification :

- Round-Ended Tamping Rod 16 mm diameter, 600 mm length
- Pipet used to draw off the bleed water from specimen
- Digital Weighing Scale, 20 kg capacity, with rechargeable battery.
- Graduated Jar of 100 cm³ capacity
- Cylindrical Container of 250 mm inner diameter, 280 mm inside height & 0,001 m³ (approx) capacity, comes with a lid.



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

CO-470 VERTICAL CYLINDER CRAPPING SET

ASTM C-617

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

CO-471	Vertical Cylinder Capper	Cast aluminium 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 200OC, 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. 115OC Pouring temperature	25 kg

**CO-470**

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



Material Testing Equipment for : BINA MUTU TEKNOTAMA DIGITAL

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CO-500 MODULUS OF ELASTICITY IN CONCRETE TEST SET

For measuring average axial deformation of concrete cylindrical 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	: 5 kg

CO-525 SPLIT TENSILE TEST

BS-1881

For split cylinder test on specimens of 150 x 300 mm (dia. x length) self-supporting lower platen



Dimension (l x w x h)	: 35 x 20 x 25 cm
Gross Weight	: 4 kg

CO-550 CONCRETE TEST HAMMER

ASTM C-805

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

Available in two variants, namely analog hammer and digital hammer.

Before delivery, the hammer has been calibrated by KAN.

The price we offer includes a calibration fee.



Dimension (l x w x h)	: 15 x 15 x 40 cm
Gross Weight	: 5 kg

CO-550A CONCRETE TEST HAMMER PROCEQ TYPE N

ASTM C-805

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

Before delivery, the hammer has been calibrated by KAN.

The price we offer includes a calibration fee.

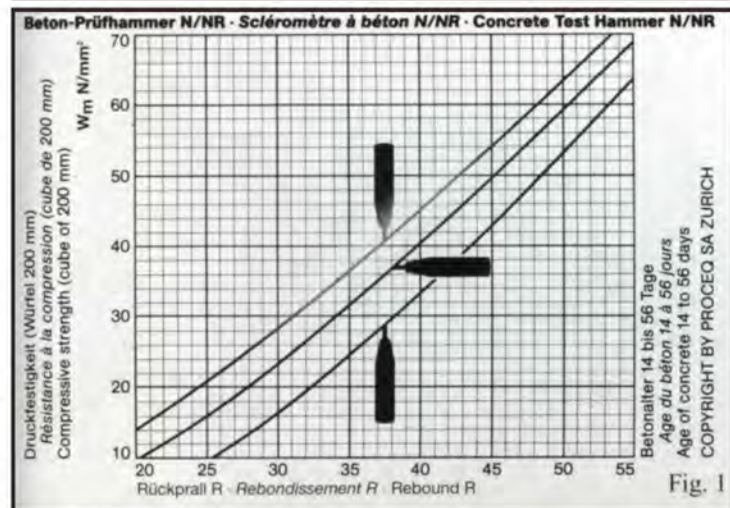
Original Schmidt Test Hammer Proceq Type-N

Product Description :

Proceq Original Schmidt Concrete Rebound Test Hammer

Detailed Product Description

1. Measuring Range: 10 – 70 N/mm² (1,450 to 10,152 psi)
2. Impact Energy: 2.207 Nm
3. Paper Strip: No
4. Brand Name: Proceq



Dimension (l x w x h)	: 15 x 15 x 40 cm
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Gross Weight	: 5 kg
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CO-550B CONCRETE TEST HAMMER MATEST ITALY

ASTM C-805

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

Before delivery, the hammer has been calibrated by KAN.

The price we offer includes a calibration fee.

Description:

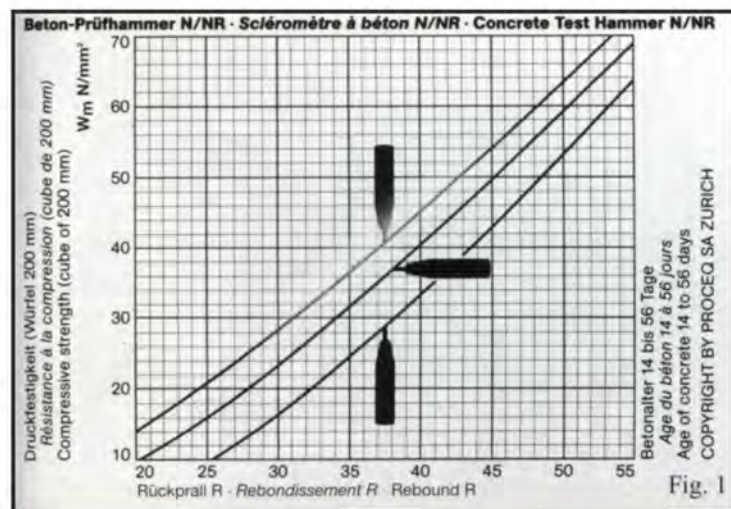
Spring impact energy 0,225 mkg.(2,207 Joule)
Suitable for finished concrete structures and buildings having strength resistances from 10 to 70 N/sq.mm.

This concrete test hammer, entirely produced by Matest, has aluminium frame, and thanks to its very accurate manufacture processing and selected components ensures high precision test results in the time.

The top quality test hammer available on the market.

Supplied complete with :

1. Calibration curve chart in N/mm² (Mpa) values,
2. Abrasive stone
3. Carrying case.
4. Dimensions : 330X100X100 mm



Dimension (l x w x h)	: 15 x 15 x 40 cm
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Gross Weight	: 5 kg
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CO-550C CONCRETE TEST HAMMER DIGITAL

ASTM C-805

Product Description :

SilverSchmidt PC/ST is the first integrated Digital Concrete Test Hammer. The unique design and high quality construction of the SilverSchmidt address all of these issues and makes rebound hammer testing quicker and more accurate than ever before.

Product Specification :

Warranty	1 year
Weight	570 g
Size	Hammer- 360(L) x 105(W) x 55 diameter
Model Name/Number	PC/ST
Accuracy	Better than +/-2 Rebound Number (s) (When tested on Calibration Anvil at 80).
Display	17 x 71 pixel, graphic LCD display
Brand	Proceq
Size/Dimension	55 x 55 x 255 mm (Housing)
Impact Energy	2.207 Nm (1.63 lb ft) for Type N, 0.735 Nm (0.54 lb ft) for Type L
Resolution	0.1 Rebound Number.
Concrete Compressive Strength Range	10-100 N/mm ² (1450-14500 psi)
Hammer Mass	135 g
Spring Extension Size	75 mm (2.95")
Maximum No of Impacts	99 (in a series)
Battery Life	Greater than 5000 impacts between charges
Charger Connection	USB type B (5 V, 100 mA)
Operating Temperature	0 to 50 deg C
Storage Temperature	0 to 50 deg C
Continuous Use Time	Greater than 5 hours
Power Supply	2 x 9V Rechargeable Batteries



CO-555 CALIBRATION ANVIL

ASTM C-805

For periodic calibration of concrete test hammer CO-550, complete with hammer guide.

Before use, the hammer must be calibrated using this ANVIL, if the calibration results do not meet the requirements, the hammer must be recalibrated.

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



CO-620 LABORATORY CONCRETE MIXER

For mixing trial bathes of concrete for mix design.

1. Approx. 70 litre capacity
2. 4 mixing blades
3. Welded steel frame
4. 2 wheels for easy movement
5. electromotor 1/3 HP
6. 220 V-AC, 1 Phase.

Also required, but not part of this set :

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



CO-620B LABORATORY CONCRETE MIXER DIESEL

For mixing trial bathes of concrete for mix design.

1. Approx. 70 ltr cap.,
2. 4 mixing blades,
3. welded steel frame,
4. 2 wheels for easy movement,
5. Engine Power with Gasoline/Solar
6. 1 ph.



CO-650 UNIVERSAL TESTING MACHINE (UTM) MINI 500 kN WITH DIGITAL DISPLAY INDICATOR

SPECIFICATION :

Model	500
Load Capacity	50 Ton / 500 kN in Tension
Control System	Load & Displacement Control
Compression Platen Diameter	150 mm
Tension Jaw to Jaw	250 mm
Compression Crosshead platen to base	14 inch (350 mm)
Gross Vertical Test Spance	59 inch (600 mm)
Lateral Clearance tower to tower	560 mm
Jaw Width	76 mm
Clamping Mechanism	Autonic, Pneumatic
Diameter of reinforcing steel	10 - 12 mm



CO-650

CO-700 POCKET CONCRETE PENETROMETER

Used for the evaluation of the initial set of the concrete mortar.

The penetration plunger has a tip area of 32 sq/mm. It is plunged into the mortar to a depth of 25.4 mm. Depth is indicated on the plunger. The resistance expressed in kPa and Lbf/sq.in. is shown on the direct-reading scale.

Dimensions: 25mm diameter x 210mm long
Weight: 400g



CO-800 CONCRETE COREDRILL MACHINE WITH GASOLINE FUEL



Specification :

A core drill is a power tool for boring holes through concrete, reinforced concrete, brick, block, stone and masonry. Specialized core bits – hollow steel cylinders fitted with segmented diamond teeth – grind away the surface to create a hole.

Popular core bits range in size from 3/8" to 3" diameter.

Power source using a gasoline engine with a rotation speed of diamond bits that can be set. Cast aluminium frame, gasoline engine 5 HP, 4 cycle vertical - horizontal drilling position.

Maximum Diameter : 200 mm

No. Load Speed : 840 r/min

Frequency : 50 Hz

Weight : 75 kg

CO-850 CONCRETE CORE DRILL MACHINE ELECTRIC



Specification :

A core drill is a power tool for boring holes through concrete, reinforced concrete, brick, block, stone and masonry. Specialized core bits – hollow steel cylinders fitted with segmented diamond teeth – grind away the surface to create a hole. Popular core bits range in size from 3/8" to 3" diameter.

Using electric power source to the rotational velocity of diamond bits that can be set.

Cast aluminium frame, 4 cycle vertical - horizontal drilling position.

Voltage : 240 V

Maximum Diameter : 200 mm

Power : 2.800 Watt

No. Load Speed : 840 r/min

Frequency : 50 Hz

Weight : 50 kg

CO-860 CONCRETE CORE DRILL MACHINE ELECTRIC PORTABLE**Specification :**

A core drill is a power tool for boring holes through concrete, reinforced concrete, brick, block, stone and masonry. Specialized core bits – hollow steel cylinders fitted with segmented diamond teeth – grind away the surface to create a hole. Popular core bits range in size from 3/8" to 3" diameter.

Voltage	: 240 V
Maximum Diameter	: 130 mm
Power	: 400 Watt
No. Load Speed	: 840 r/min
Frequency	: 50 Hz
Weight	: 30 kg

CO-870 CONCRETE CORE DRILL MACHINE ELEKTRIC IMPORT CHINA



Specification :

A core drill is a power tool for boring holes through concrete, reinforced concrete, brick, block, stone and masonry. Specialized core bits – hollow steel cylinders fitted with segmented diamond teeth – grind away the surface to create a hole. Popular core bits range in size from 3/8" to 3" diameter. Using electric power source to the rotational velocity of diamond bits that can be set.

Cast aluminium frame, 4 cycle vertical - horizontal drilling position.

Voltage : 240 V

Maximum Diameter : 200 mm

Power : 2.800 Watt

No. Load Speed : 840 r/min

Frequency : 50 Hz

Weight : 48 kg

CO-880 SPECIMENT CUTTING MACHINE



Specification :

Specimen cutting machine with sliding supports.

The machine accepts blades up to Ø 400 mm
(**NOTE:** It is recommended to use the blade having the max. diameter accepted by the cutting machine)

Useful cutting height : 130 mm

Dimensions of the sliding table : 460x400 mm

Blade rotation speed : 2800 rpm

Supplied without blade (see accessories)

Power supply : 230V 1ph 50Hz 3Hp

Dimensions : 1185x660x1400 mm

Weight : 79 kg approx.

CO-890 SPECIMEN CUTTING MACHINE MANUAL



Application:

Used for materials pressure cutting, such as rock, concrete, asphalt mixture, necessary equipment for non-metallic solid mechanics test standard specimen making, this machine used with our drilling machine and polishing machine, can process square, cylinder specimen.

Spesification :

Power : Electronic
Usage : Manual Specimen Cutting Machines
Voltage : 380V 220V $\pm$ 5V
Power : 1.5KW
Cutting diamond saw blade :
 ϕ 300mm ϕ 450mm (It's optional)
Motor rotate speed : 1250 r/min
Pressure mode : Manual loading
Cutting sample length : 400 mm
Diameter : ϕ 25mm- ϕ 150mm
Diemnsions : 900 mm x 460 mm x 830 mm

TESTING EQUIPMENT CATALOGUE

5. ASPHALT TESTING



Material Testing Equipment for :
Soil, Agregat, Cement, Concrete,
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TESTING EQUIPMENT CATALOGUE

E. ASPHALT TESTING

1. BI-100A Specific Gravity of Semi-Solid Bituminous Materials
2. BI-110A Distillation of Cutback Asphalts
3. BI-120 Water Content in Petroleum Products
4. BI-150A Saybolt Viscosimeter
5. BI-200 Flash and Fire Point by Cleveland Open Cup
6. BI-200A Flash and Fire Point by Cleveland Open Cup
7. BI-210A Softening Point Test Set
8. BI-220A Loss On Heating / Thin-Film Test
9. BI-230 Laboratory Penetration Test Set
10. BI-230A Laboratory Penetration Test Set
11. BI-250 Ductility of Bituminous Materials Test Set
12. BI-300 Contrifuge Extractor Test Set
13. BI-300A Centrifuge Extractor Test Set
14. BI-310 Reflux Extractor Test Set
15. BI-320 Marshall Test Set
16. BI-400A Core Drilling Test Set
17. BI-450 Benkleman Beam
18. BI-470 Mot Straight Edge



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BI-100 SPECIFIC GRAVITY OF SEMI-SOLID BITUMINOUS MATERIALS

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			
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, 8-32oC	1 Pc

Also required, but not part of this set :

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



BI-110A DISTILLATION OF CUTBACK ASPHALTS

ASTM D-402		AASHTO T-78	
For measuring the amount of the more volatile constituents in cut back asphaltic product			
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-649.1	Thermometer	ASTM 7 C, 2 to 300oC	1 Pc



Dimension (l x w x h)	: 100 x 80 x 80 cm
Gross Weight	: 10 kg

BI-120 WATER CONTENT IN PETROLEUM PRODUCT

ASTM D-95		AASHTO T-55	
For determining water in crude petroleum, tars and products derived from these materials			
BI-121	Flask	Heat resistance glass, 500 ml capacity	1 Pc
BI-122	Water Trap	Glass for receiving distilled 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

**BI-120**

Also required, but not part of this set :

GE-152 Triple Beam Balance

GE-203 Cooling System

GE-222 Butane Field Heater

GE-473 Glass Funnel

GE-748 Leather Gloves

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

BI-150 SAYBOLT VISCOMETER

ASTM D-88		AASHTO T-72	
For determining saybolt viscosity of petroleum products at specified temperature between 21.1 and 98.8 C.			
BI-151	Viscosimeter	Stainless steel bath, motor stirrer, 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, 60oangle, 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 65oC	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



BI-150A

Also required, but not part of this set :
GE-700 Stop Watch

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

BI-200 FLASH AND FIRE POINT BY CLEVELAND OPEN CUP

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			
BI-201	Flash Cup	Brass, insulation handle	1 Pc
BI-202	Cleveland Gas		
Consist of :			
BI-202.1	Burning Pipe	Brass pipe, insulation handle	1 Pc
BI-202.2	Flash Cup Plate	Steel Plate	1 Pc
BI-202.3	Support	Adjustable height metal, thermometer holder	1 Pc
BI-203	Y-Connector	Brass, provided with gas hose	1 Set
GE-230	Bunsen Burner	Heat resources	1 Pc
GE-648	Thermometer	ASTM 11°C, 6 to 400°C	1 Pc
Dimension (l x w x h)		: 150 x 30 x 30 cm	
Gross Weight		: 8 kg	

**BI-200**

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

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			
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

Also required, but not part of this set :

GE-363 Mixing Bowl

**BI-200A**

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

BI-210A SOFTENING POINT TEST SET

ASTM D-36		AASHTO T-53	
For determining softening point of asphalt and tar using the ring and ball method			
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

Also required, but not part of this set :

CO-473 Ladle

GE-222 Butane Field Heater

GE-363 Mixing Bowl

GE-700 Stop Watch

GE-820 Spatula



Material Testing Equipment for : BINA MUTU TEKNOTAMA DIGITAL

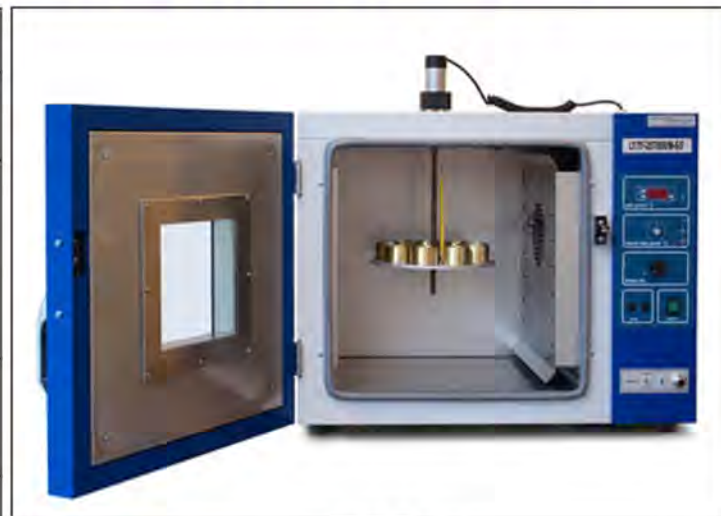
Soil, Aggregat, Cement, Concrete, Asphalt, Laboratory and Field

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BI-220A LOSS ON HEATING/THIN-FILM TEST

ASTM D-6/D-1754		AASHTO T-47/T-179	
For determining the loss in mass (exclusive of water) of asphaltic compounds after heating			
BI-221	Resolving Shelf Oven	Variable temperature oven, cas aluminium rotating shelf, 5-6 RPM, external electromotor drive, 220 V-AC, 1400 Watt.	1 Set
GE-390	Thin Box	55 mm i.d. approx. aluminium sheet, seamless	12 Pcs
GE-643	Thermometer	ASTM 13 C, 155 to 170oC	1 Pc



BI-220A

Also required, but not part of this set :

CO-473 Ladle

GE-150 Cent O-Gram Balance

GE-222 Butane Field Heater

GE-363 Mixing Bowl

GE-748 Leather Gloves

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



Material Testing Equipment for :
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BI-230 LABORATORY PENETRATION TEST SET

ASTM D-5		AASHTO T-49	
For determining consistency of bituminous materials			
BI-231	Penetrometer	Cast aluminium frame, 4 1/2" dial indicator, 400 x 0.1 mm dial, single knob control, 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, aluminium sheet, seamless	2 Pcs

Also required, but not part of this set :

GE-222 Butane Field Heater

GE-363 Mixing Bowl

GE-600 Thermometer



BI-230

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

BI-230A LABORATORY PENETRATION TEST SET

ASTM D-5		AASHTO T-49	
For determining consistency of bituminous materials			
BI-231A	Penetrometer	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 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, aluminium sheet, seamless	2 Pcs



BI-230A

Also required, but not part of this set :

GE-363 Mixing Bowl

GE-600 Thermometer



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BI-250 DUCTILITY OF BITUMINOUS MATERIALS TEST SET

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/			
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

Also required, but not part of this set :

BI-254 Glyserin

BI-255 Talk

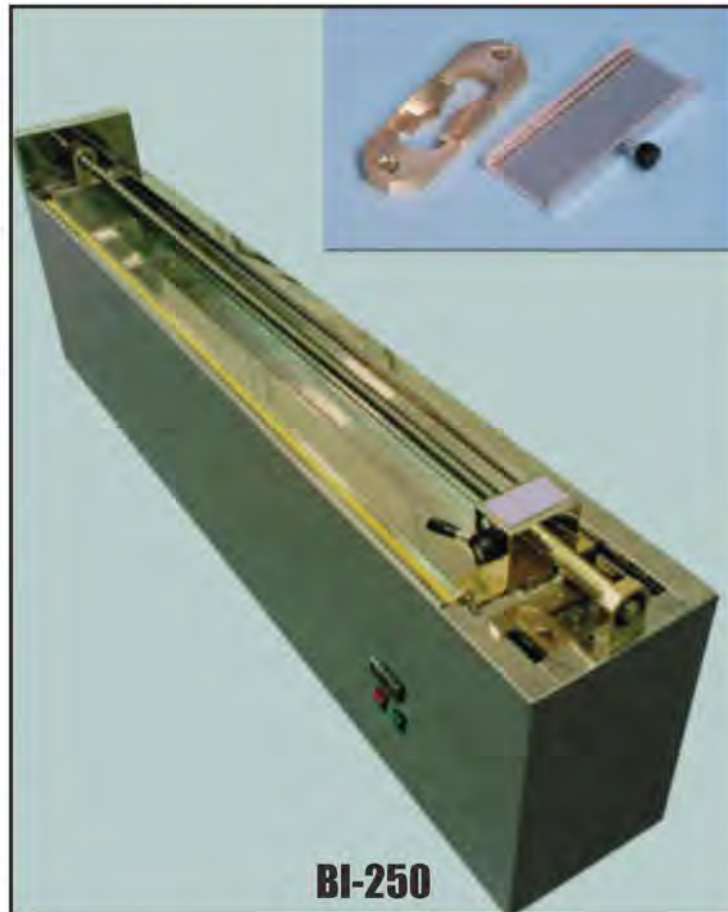
GE-222 Butane Field Heater

GE-363 Mixing Bowl

GE-600 Thermometer

GE-820 Spatula

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



BI-250

BI-300 CENTRIFUGE EXTRACTOR TEST SET MANUAL

ASTM D-2172		AASHTO T-164	
For determining bitument content in hot mixed paving mixture and pavement sample			
BI-301	Centrifuge Extractor	Hand operated, alumunium housing removable cover and bowl, 1500 gr capacity.	1 Set
BI-303	Filter Paper	Low ash filter paper	1 Box

Also required, but not part of this set :

BI-304 Solvent (CCL₄)
 GE-152 Triple Beam Balance
 GE-174 Drying Oven
 GE-363 Mixing Bowl
 GE-403 Graduated Cylinder
 GE-748 Leather Gloves

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



BI-300A CENTRIFUGE EXTRACTOR TEST SET ELECTRIC

ASTM D-2172		AASHTO T-164	
For determining bitument content in hot mixed paving mixture and pavement sample			
BI-301	Centrifuge Extractor	Electric, 220 V-AC, variable speed DC motor up to 3600 rpm, aluminium housing, removable cover and bowl, 1500 gram capacity.	1 Set
BI-303	Filter Paper	Low ash filter paper	1 Box

Also required, but not part of this set :

BI-304 Solvent (CCL₄)
 GE-152 Triple Beam Balance
 GE-174 Drying Oven
 GE-363 Mixing Bowl
 GE-403 Graduated Cylinder
 GE-748 Leather Gloves

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

**BI-300A**

Material Testing Equipment for :
 Soil, Aggregat, Cement, Concrete,
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BI-310 REFLUX EXTRACTOR TEST SET

ASTM D-2172		AASHTO T-164	
For determining bitument content in hot mixed paving mixture and pavement sample			
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-3113	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

Also required,
but not part of this set :
BI-304 Solvent (CCL₄)
GE-152 Triple Beam Balance
GE-174 Drying Oven
GE-203 Cooling System

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

**BI-310**

BI-320 MARSHALL TEST

BI-320	MARSHALL TEST SET ASTM D-1559 / AASHTO T-245	1 set
	<u>Consist of :</u>	
BI-321	Compression Machine Steel frame electric, 220 V-AC, 1/2 HP1 Phase, speed : 2" per-minute.	1 set
BI-322	Compaction Mold Machine steel, plated, 4" dia., 3" height, with collar and base plate.	1 set
BI-323	Stability Mold Cast aluminium, split type 4" i.d., 4" wide.	1 set
BI-324	Compaction Hammer Machine steel, plated 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 Machine steel, quick clamping system	1 set
BI-328	Extruder Steel frame, hydraulic system.	1 set
BI-329	Flow Meter Cast aluminium, 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 deg.C	1 set
GE-101/6	Proving Ring 6000 lbs capacity.	1 set

Also required,
but not part of this set :
GE-161 Digital Balance
GE-222 Butane Field Heater
GE-363 Mixing Bowl
GE-622 Dial Thermometer



BI-320

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

BI-340 AUTOMATIC MARSHALL IMPACT COMPACTOR

Spesification :

Automatic Marshall Compactor, for 4" and 6" dia.
Specimens, ASTM, 220-240 V 50 Hz
(60 Hz version is available upon request)

Standard :

ASTM D 1559, D 6926, D 5581; AASHTO T245
Automatic, Marshall Compactors are designed to provide a stable and rigid mechanism is used for preparation of bituminous specimens for Marshall Stability tests.

Compactor is for compaction of 4" dia. specimens and 6" dia. specimens.

Both models feature a heavy-duty design, which stands up well to the constant jarring caused by the compaction process. The Compactors are equipped with a mould fixing mechanism which also raises the hammer to provide easy removing of the mould. With this feature, the user can easily release the mould and raise the rammer simultaneously.

The conveniently positioned control panel comprises of start/stop button, emergency stop button and a direct reading counter used to set the required number of blows. the operator can keep track of the number of blows on an Control display.

The apparatus stops automatically after the preset number of blows.

Dimension (l x w x h)	: 55 x 55 x 195 cm
Gross Weight	: 150 kg



BI-340

BI-400A CORE DRILLING TEST SET

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

BI-401	Core Drilling Machine	Cast aluminium frame, gasoline engine 7 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



BI-450 BENKELMAN BEAM

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

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 30 x 0.01 mm	1 Pc

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



BI-470 MOT STRAIGHT EDGE

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

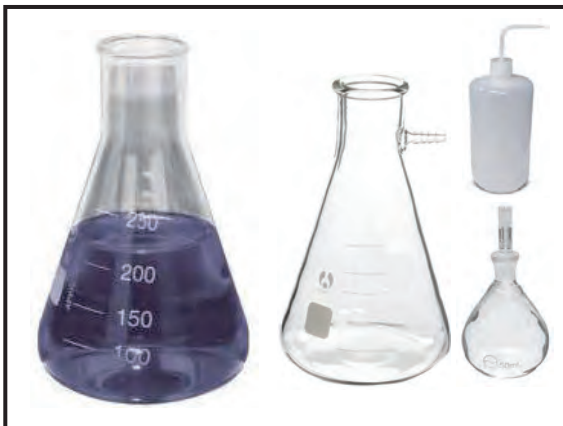
BI-471	Mot Straight	Alumunium profile, 3 meter length, with handle	1 Pc
BI-472	Metric WedgesBit	Variable measurement from 2.5 - 7.5 cm, machine cast alumunium	1 Pc

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



TESTING EQUIPMENT CATALOGUE

6. GENERAL EQUIPMENT



TESTING EQUIPMENT CATALOGUE

F. GENERAL EQUIPMENT

1. Proving Ring, Dial Indicator, Dial Holder
2. Cent O-Gram, Triple Beam Balance, Havy Duty Solution Balance, Platform Scale, Digital Balance
3. Oven (Memmert), Hot Plate, Water Bath
4. Cooling System, Butane Field Heater, Bunsen Burner, Statif, Tripod Stand, Asbestos Wire Gauze, Glass Clamp
5. Square Pan, Rectangular Pan, Round Pan, Mixing Bowl, Sample Can, Thin Box, Glass Plate
6. Enlenmeyer Flask, Vacuum Flask, Density Bottle
7. Graduated Cylinder, Volumetric Flask, Beaker Glass
8. Separatory Funnel, Filter Funnel
9. Dissicator, Silica Gel
10. Funnel, Burette, Evaporating Dish, Mortar and Pestle, Wash Bottle, Pipette Crucibles
11. Thermometer, Pocket Dial Thermometer, Dial Thermometer, ASTM Thermometer
12. Manometer, Vacuum Manometer, Vacuum Pump
13. Hydraulic Cylinder, Hydraulic Hand Pump, Hydraulic Electric Pump, Hydraulic Hose
14. Stop Watch, Vernier Caliper, Levels
15. Open End Wrench, Ring Spanner, Allen Key, Pipe Wrench, Strap Wrench, Adjustable Wrench
16. Rubber Gloves, Leather Gloves, Asbestos Gloves, Quatering Canvas
17. Round Scoop, Flat Scoop, Scoop Pan, Aggregate Scoop
18. Wire Saw, Chissel, Straight Edge, Ruler
19. Rubber Mallet, Hammer, Steel Wire Brush, Brass Wire Brush, Soft Brush, Tamping Rod
20. Mortar Mixer



Material Testing Equipment for :
Soil, Agregat, Cement, Concrete,
Asphalt, Laboratory and Field.

BINA MUTU TEKNOTAMA DIGITAL

Jl. Pasir Gede No. 44 Padalarang - Kabupaten Bandung Barat Jawa Barat 40553

E-mail : trading@bmtdigital.co.id - Website : <http://bmtdigital.co.id>

GE-101.1-101.7 / GE-130 - 138 / GE-140 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.

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

GE-130	Dial indicator, 0.2 in. x 0.0001 inch
GE-131	Dial indicator, 1.0 in. x 0.01 inch
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

MAGNETIC DIAL HOLDER

GE-140	Magnetic Dial Holder Chrome plated shaft with simple clamping device. Powerful magnet with on off switch. Precision ground surface.
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GE-150 / GE-152 / GE-157 / GE-159 / GE-160 ANALOG AND DIGITAL BALANCE SERIES**BALANCE****CENT-0-GRAM BALANCE**

GE-150	Cent 0-Gram Balance 311 gr capacity 0.01 sensitivity.
GE-151	Cent 0-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 OHAUS 2.610 gr capacity 0.1 sensitivity with dial type adjustment. Supplied complete with weights.

GE-157 Heavy Duty Solution Balance

20 kg capacity, 1 gr sensitivity.
Supplied complete with weights.

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 0.1 gr.

GE-174 / GE-191 / GE-200 : OVEN AND HOT PLATE**OVEN (MEMMERT)**

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 Memmert 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

**HOT PLATE**

GE-191	Hot Plate Electric 1000 W, 220 V Single burner plate.
GE-192	Hot Plate Electric 1500 W, 220 V Double burner plate.

GE-203/GE-222/GE-230/GE-233/GE-235/GE-237/GE-239

GE-203	COOLING SYSTEM Electric, 220 V-AC, Suplied complete with water tank.
GE-222	BUTANE FIELD HEATER Ideal for field or laboratory use. LPG consumption, single burner, supplied complete with LPG tank.
GE-230	BUNSEN BURNER LPG consumption, complete with fitting base and air consumption control.
GE-233	STATIF Painted rectangular iron base, vertical round rod.
GE-235	TRIPOD STAND Painted iron, circular top, 15 cm dia. approx.
GE-237	ASBESTOS WIRE GAUZE Asbesros centre, 15 x 15 cm.
GE-239	GLASS CLAMP Cast alumunium with adjustable opening.



GE-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 70 deg. C (working temperature 60 deg.C)
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GE-303 / GE-320 / GE-352 / GE-363 / GE-380 / GE-390 : PAN, BOWL, THIN BOX**Square Pan**

Galvanized steel provided with handles on both sides.

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.

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

GE-352 Round Pan

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

Mixing Bowl

Stainless steel, round type

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.

GE-380 Sample Can

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

**Thin Box**

Aluminium sheet, provided with cap.

GE-390	Thin Box	60 gram capacity
GE-391	Thin Box	120 gram capacity

GE-396 Glass Plate

Glass, 10 cm thick, 30 x 30 cm

GE-404 / GE-404A / GE-412 / GE-424 : GRADUATED CYLINDER, VOLUMETRIC**Graduated Cylinder**

Glass made, single numbering

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

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

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

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

GE-432 / 432A / GE-441 : ELENMEYER FLASK, VACUUM FLASK, DENSITY BOTLE**Enlenmeyer Flask**

Glass made, provided with scale.

GE-430	Enlenmeyer Flask	125 ml capacity
GE-431	Enlenmeyer Flask	250 ml capacity
GE-432	Enlenmeyer Flask	500 ml capacity
GE-433	Enlenmeyer Flask	1000 ml capacity
GE-434	Enlenmeyer Flask	2000 ml capacity

Vacuum Flask

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

GE-430A	Vacuum Flask	125 ml capacity
GE-431A	Vacuum Flask	250 ml capacity
GE-432A	Vaacum Flask	500 ml capacity
GE-433A	Vaacum Flask	1000 ml capacity
GE-434A	Vacuum Flask	2000 ml capacity

**Density Bottle**

GE-440	Density Bottle	50 ml capacity
GE-441	Density Bottle	100 ml capacity

GE-445 / GE-448 : SEPARATOR FUNNEL, FILTER FUNNEL**Separatory Funnel**

Glass with stoppet and cap.

GE-445	Separatory Funnel	Glass, 250 ml capacity
GE-446	Separatory Funnel	Glass, 500 ml capacity

Filter Funnel

Porcelain with perforated base for filtering purpose.

GE-448	Filter Funnel	125 ml capacity
GE-449	Filter Funnel	500 ml capacity



GE-452 / GE-452A / GE-455 : DESSICATOR, SILICA GEL**Dessicator**

Non vacuum type, supplied without silica gel.

GE-450	Dessicator	21 cm diameter
GE-451	Dessicator	24 cm diameter
GE-452	Dessicator	30 cm diameter

Dessicator

Vacuum type, supplied without silica gel.

GE-450A	Dessicator	21 cm diameter
GE-451A	Dessicator	24 cm diameter
GE-452A	Dessicator	30 cm diameter

GE-455 Silica Gel

Water vapour absorbent.



GE-470 / GE-472 / GE-482 / GE-521 / GE-531 : FUNNEL, BURRETE, EVAPORATING DISH, MORTAR & PESTLE, WASH BOTTLE, PIPETTE**Funnel**

GE-470	Funnel	Plastic, narrow mouth
GE-471	Funnel	Plastic, wide mouth
GE-472	Funnel	Glass, narrow mouth
GE-473	Funnel	Glass, wide mouth

Burrete

Graduated glass, with stopper.

GE-480	Burrete	21 ml capacity
GE-481	Burrete	25 ml capacity
GE-482	Burrete	50 ml capacity
GE-483	Burrete	100 ml capacity

Evaporating Dish

heat resistance porcelain.

GE-500	Evaporating Dish	9 cm dia., 100 ml capacity
GE-501	Evaporating Dish	12 cm dia., 250 ml capacity
GE-502	Evaporating Dish	15 cm dia., 350 ml capacity
GE-503	Evaporating Dish	17 cm dia., 500 ml capacity

Mortar and Pestle

Thick porcelain dish grinding materials.

GE-510	Mortar and Pestle	12 cm diameter approx.
GE-511	Mortar and Pestle	15 cm diameter approx.
GE-512	Mortar and Pestle	18 cm diameter approx.

Wash Bottle

Plastic bottle, with tubing

GE-521	Wash Bottle	250 ml capacity
GE-522	Wash Bottle	500 ml capacity
GE-523	Wash Bottle	1000 ml capacity

Pipette

Graduated glass for accurate water leaving in flask.

GE-530	Pipette	5 ml capacity
GE-531	Pipette	10 ml capacity
GE-532	Pipette	15 ml capacity



GE-601 / GE-612 / GE-620**THERMOMETER****Thermometer**

Glass, alcohol indicator, 30 cm length.

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

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 stem and housing.

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

GE-641 ASTM Thermometer (Specific Gravity)

GE-641	Thermometer	12 C, 20 to 102°C
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GE-642 ASTM Thermometer

GE-642	Thermometer	63 C, 8 to 32°C
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GE-643 ASTM Thermometer (Loss on Heating)

GE-643	Thermometer	13 C, 155 to 170°C
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GE-644 / GE-646 / GE-648 / GE-649**GE-644 ASTM Thermometer (Saybolt Viscosimeter)**

GE-644.1	Thermometer	17 C, 19 to 27°C
GE-644.2	Thermometer	18 C, 34 to 42°C
GE-644.3	Thermometer	19 C, 49 to 57°C
GE-644.4	Thermometer	20 C, 57 to 65°C
GE-644.5	Thermometer	21 C, 79 to 87°C
GE-644.6	Thermometer	22 C, 95 to 103°C

GE-646 ASTM Thermometer (Softening Point)

GE-646.1	Thermometer	15 C, 2 to 80°C
GE-646.2	Thermometer	16 C, 30 to 200°C

GE-648 ASTM Thermometer (Open Flash)

GE-648	Thermometer	11 C, 6 to 400°C
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GE-649 ASTM Thermometer (Distillation)

GE-649.1	Thermometer	7 C, 2 to 300°C
GE-649.2	Thermometer	8 C, 2 to 400°C



GE-676 / GE-679 / GE-680 : MANOMETER, VACUUM MANOMETER, VACUUM PUMP**Manometer**

For measuring pressure, single pointer

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.

GE-679 Vacuum Manometer

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

GE-680 Vacuum Pump

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



GE-681 / GE-691 / GE-695 / GE-698 : HYDRAULIC CYLINDER & PUMP**Hydraulic Cylinder**

GE-681	Hydraulic Cylinder	30 capacity
GE-682	Hydraulic Cylinder	50 capacity
GE-683	Hydraulic Cylinder	100 capacity
GE-684	Hydraulic Cylinder	150 capacity
GE-685	Hydraulic Cylinder	200 capacity

Hydraulic Hand Pump

GE-690	Hand Pump	10.000 psi, single acting
GE-691	Hand Pump	10.000 psi, double acting

Hydraulic Electric Pump

Electric, 220 V-AC, 750 Watt, 1 Phase.

GE-694	Electric Pump	10.000 psi, single acting
GE-695	Electric Pump	10.000 psi, double acting

Hydraulic Hose

GE-697	Hydraulic Hose	60 cm length, 10.000 psi
GE-698	Hydraulic Hose	120 cm length, 10.000psi
GE-699	Hydraulic Hose	180 cm length, 10.000psi



GE-700 / GE-713 / GE-720 / GE-721 : STOP WATCH, VERNIER CALIPER, LEVELS**Stop Watch**

Precision timer, plastic body.

GE-700	Stop Watch	60 sec sweep x 30 min
GE-701	Stop Watch	30 sec sweep x 10 min

Vernier Caliper

Stainless steel, double scale, for measuring inner and outer diameter

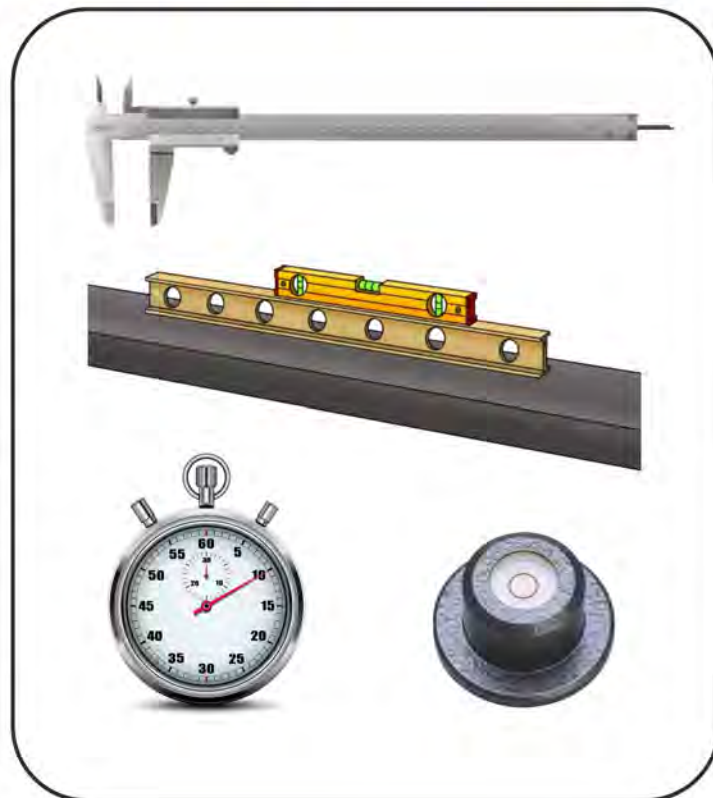
GE-710	Vernier Caliper	6" (150 mm) capacity
GE-711	Vernier Caliper	8" (200 mm) capacity
GE-712	Vernier Caliper	10" (250 mm) capacity
GE-713	Vernier Caliper	12" (300 mm) capacity

GE-720 Levels

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

GE-721 Levels

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



GE-730 / GE-732 / GE-734 / GE-739 / GE-741 / GE-745 : OPEN END WRENCH, RING SPANNER, ALLEN KEY, ETC**Open End Wrench**

GE-730	Open End Wrench	Metric unit, 8 pcs
GE-731	Open End Wrench	Imperial unit, 8 pcs

Ring Spanner

GE-732	Ring Spanner	Metric unit, 8 pcs
GE-733	Ring Spanner	Imperial unit, 8 pcs

Allen Key

GE-734	Allen Key	Metric unit, 8 pcs
GE-735	Allen Key	Imperial unit, 8 pcs

Pipe Wrench

GE-736	Pipe Wrench	8" length
GE-737	Pipe Wrench	12" length
GE-738	Pipe Wrench	18" length
GE-739	Pipe Wrench	24" length

Strap Wrench

GE-740	Strap Wrench	4" capacity
GE-741	Strap Wrench	6" capacity

Adjustable Wrench

GE-742	Adjustable Wrench	6" length
GE-743	Adjustable Wrench	8" length
GE-744	Adjustable Wrench	10" length
GE-745	Adjustable Wrench	12" length



GE-747 / GE-748 / GE-749 / GE-750 : RUBBER GLOVES, LEATHER GLOVES, ASBESTOS GLOVE, QUATERING CANVAS
GE-801 / GE-806 / GE-810 / GE-815 : ROUND SCOOP, FLAT SCOOP, SCOOP PAN

GE-747 Rubber Gloves

Rubber materials, water proof, for chemical purposes.

GE-748 Leather Gloves

Leather materials, for general purposes.

GE-749 Asbestos Gloves

Asbestos materials, for heat resistance purpose.

GE-750 Quatering Canvas

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



Round Scoop

Cast aluminium materials, general purpose.

GE-800	Scoop	Round bottom, small size
GE-801	Scoop	Round bottom, large size

Flat Scoop

Cast aluminium materials, general purpose.

GE-805	Scoop	Flat bottom, small size
GE-806	Scoop	Flat bottom, large size

GE-810 Scoop Pan

Galvanized metal flat bottom, with handle.



GE-820 / GE-825 / GE-861 / GE-871 / GE-875 : WIRE SAW, CHISEL, STRAIGHT EDGE, RULER**GE-820 Wire Saw**

For preparing soil sample.

GE-8805 Chissel

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

Straight Edge

Galvanized steel, for leveling samples in molds.

GE-890	Straight Edge	30 cm length
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GE-891	Straight Edge	40 cm length
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Ruler

Stainless steel, double scale.

GE-895	Ruler	30 cm length
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GE-896	Ruler	100 cm length
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GE-875 Gardener's Type Trowel

Wooden / plastic handle.



GE-900 / GE-901 / GE-920 / GE-922 / GE-930**GE-900 Rubber Mallet**

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

Hammer

GE-901	Hammer	Steel, 1 kg weight
GE-902	Hammer	Steel, 5 kg weight

GE-920 Steel Wire Brush

For cleaning laboratory / field apparatus.

GE-921 Brass Wire Brush

For cleaning laboratory / field apparatus.

GE-922 Soft Brush

Black hair, round type.

Tamping Rod

Machined steel, galvanized, for consolidating concrete and other materials.

GE-930	Tamping Rod	16 mm dia., 60 cm length
GE-931	Tamping Rod	20 mm dia., 60 cm length



GE-950 MORTAR MIXER**Mortar Mixer**

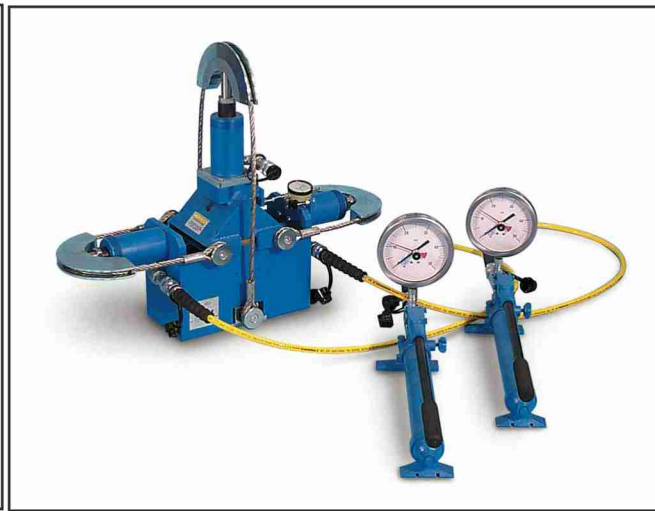
Bench model, electric 220 V-AC, supplied complete with beaters.

GE-950	Mortar Mixer	5 litre capacity
GE-951	Mortar Mixer	10 litre capacity



TESTING EQUIPMENT CATALOGUE

7. ROCK TEST



Material Testing Equipment for :
Soil, Agregat, Cement, Concrete,
Asphalt, Laboratory and Field.

BINA MUTU TEKNOTAMA DIGITAL

Jl. Pasir Gede No. 44 Padalarang - Kabupaten Bandung Barat Jawa Barat 40553

E-mail : trading@bmtdigital.co.id - Website : <http://bmtdigital.co.id>

TESTING EQUIPMENT CATALOGUE

G. ROCK TEST

1. Digital Point Load Test Apparatus
2. Rox Shear Box Apparatus
3. Unconfined Compression Test Apparatus For Rock
4. Slake Durability Apparatus



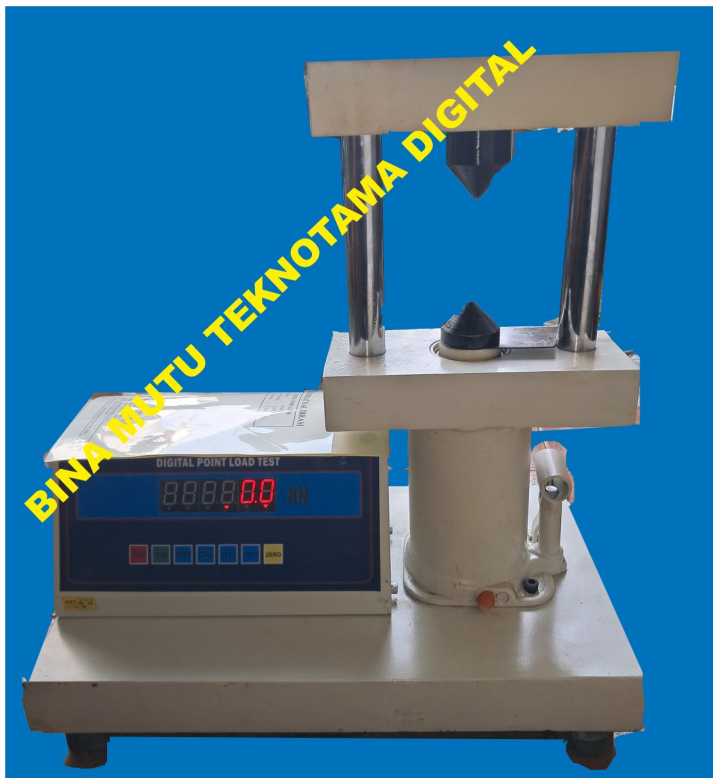
Material Testing Equipment for :
Soil, Agregat, Cement, Concrete,
Asphalt, Laboratory and Field.

BINA MUTU TEKNOTAMA DIGITAL

Jl. Pasir Gede No. 44 Padalarang - Kabupaten Bandung Barat Jawa Barat 40553

E-mail : trading@bmtdigital.co.id - Website : <http://bmtdigital.co.id>

RT-100 DIGITAL POINT LOAD TEST APPARATUS WITH HYDRAULIC JACK



Deskription :

Digital Point-load Test Apparatus EN DD ENV 1997-2, ASTM D-5731.

Originally developed at Imperial College, London, the apparatus comprises a two-column fixed crosshead frame and a hand operated hydraulic jack. Pressure applied by the jack extends the piston carrying the lower conical point. The upper point is fixed to the crosshead with a scale mounted on the frame to provide specimen diameter information for use in point load strength index calculations. Pressure is indicated directly on the digital readout unit. Loads up to 55 kN can be applied to specimens as

large as 101.6 mm in diameter. Specification :

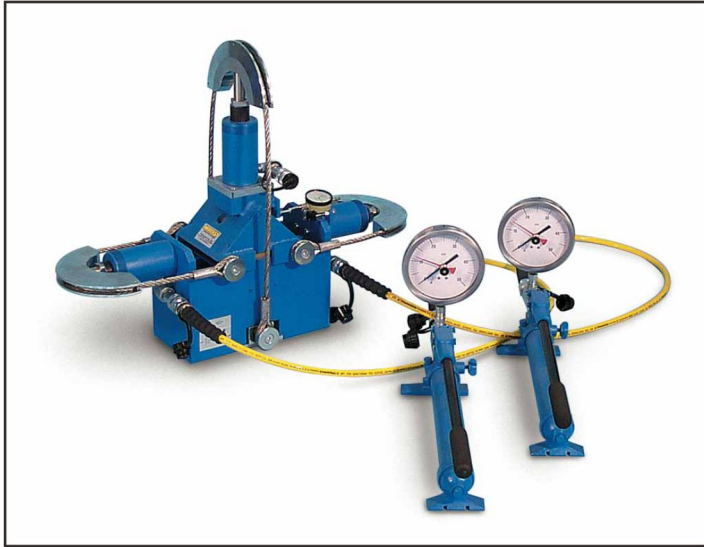
Capacity : 55 kN

Maximum sample size : 101.6 mm

Load range : 0 to 55 kN x 0.01 kN

Weight : 60 kg

RT-200 ROCK SHEAR BOX APPARATUS



Deskripsi :

ASTM D5607* ISRM

Used to determine the strength and slope stability of rock size max 115x125 mm or cores max. $\varnothing$ 102 mm, both in the field and in the laboratory. Complete with two horizontal rams for shear in two directions, vertical loading ram, two bourdon tube load gauges $\varnothing$ 150 mm with quick release couplings, calibrated 50 kN x 1 kN division, two hand pumps with hydraulic connections and dial gauge 25x0.01 mm.

Dimensions: 600x250x460 mm

Weight: 46 Kg approx.

RT-300 UNCONFINED COMPRESSION TEST APPARATUS FOR ROCK**STANDARD : ASTM D7012-14e1****Product Description :**

The Unconfined Compression Test is a laboratory test used to derive the Unconfirmed Compressive Strength (UCS) of a rock specimen. Unconfirmed Compressive Strength (UCS) stands for the maximum axial compressive stress that a specimen can bear under zero confining stress.

These four test methods cover the determination of the strength of intact rock core specimens in uniaxial and triaxial compression.

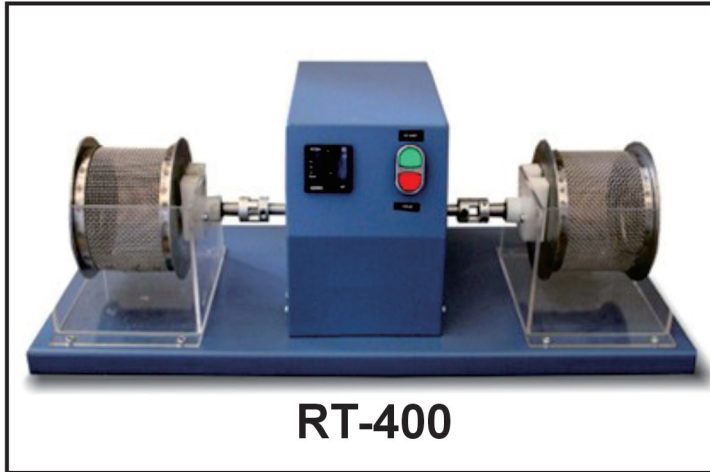
Product Specification :

1. Maximum load: 7.5kN
2. Manual ascent speed: 10 circles/1mm
3. Electric ascent speed: 2.4mm/min
4. Screw disc diameter: 52mm
5. Lead screw moving distance: 50mm
6. Specimen size: 50X50 50X100 (mm)
7. Weight: 30kg
8. Dimensions: 220x340x500(mm)

Power supply voltage: 220V

**RT-300**

RT-400 SLAKE DURABILITY APPARATUS



STANDARD : ASTM D4644

Product Description :

This equipment has been developed to assess the durability of rock to weakening and disintegration when subjected to the simulated effects of climatic slaking.

The rock samples are dried and then submitted to wear stress inside a drum which is rotated into water.

The test is performed different times and the wear is given by the loss in weight of the sample.

The system incorporates a motor drive unit mounted on a baseplate which revolves two (or up to four) stainless steel drums manufactured from 2 mm mesh, 140 mm Ø x 100 mm long.

The tanks are filled with water to a level 20 mm below the drum axis.

A digital timer automatically stops the motor after the preset time.

The equipment is supplied complete with two drums with tanks, and it can accept two additional drums (see accessories).

Power supply: 230V 1ph 50Hz 250W

Dimensions: 350x740x300 mm approx.

Weight: 30 kg approx.