

T B T
T-Bota Testing Equipment

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WE DO BETTER THAN WHAT WE PROMISE

06TH EDITION



About Us

Nanjing T-Bota Testing Equipment

Who Are We:

Nanjing T-Bota Sciotech Instruments & Equipment Co., Ltd.(TBT) mainly deals in the filed of Geotechnical testing, Laboratory testing and surveying testing instruments! TBT is a global supplier and has built its business worldwide; Since its inception, TBT has continued to enhance its products, service and all relevant business activities!

Our Business Scope:

TBT is specialized in exporting SOIL TESTING, LABORATORY TESTING EQUIPMENT, MATERIALS TESTING MACHINE, PETROLEUM TESTING EQUIPMENT, SURVEYING INSTRUMENTS and etc. to overseas market; Nowadays, our customers are mainly distributed in South-East Asia(Vietnam/Thailand/Indonesia/Philippine/Singapore/Cambodia), South Africa, South America, Australia, Iran, Egypt, New Zealand, Spain. At the same time, we are endeavoring to develop sales agent in different countries.

Our Target:

To be the largest and best supplier in our business scope through our efforts;
To be the first supplier at customer's first thought when they order goods;
To be the best friend and cooperater of our customer;
To promote our products to more and more countries and customers;

Our Advantages:

You can always get our in time reply via email or tel. or fax;
You can always get best products w/excellent quality & competitive price;
You can always get good news for on-time or advanced shipment;
You can always enjoy our considerable & full-side after-sale service;

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WG Series Consolidation Apparatus

Load Pressure:	Low Pressure	12.5kPa – 800kPa/30cm ² 12.5kPa – 400kPa/50cm ²
	Mid. Pressure	12.5kPa – 1600kPa/30cm ² 12.5kPa – 800kPa/50cm ²
	High Pressure	12.5kPa – 4000kPa/30cm ² 12.5kPa – 2000kPa/50cm ²
Lever Ratio:	12:1, 20:1, 24:1	
Consolidation container:	1xbeam, 2xbeam, 3xbeam	
Area of specimen:	30cm ² , 50cm ²	



WG Light-duty Consolidation Apparatus

Load to be added:	12.5kPa – 400kPa
Lever ratio:	1:20
Specimen area:	30cm ² x2cm(H), 50cm ² x2cm(H)



ZSZ-1 Cross Plate Shear Apparatus

Cross plate dimension:	Ø75x150mm, Ø50x100mm,
Torque moment of steel ring:	80N·m
Torque moment accuracy:	0.5% N·m
Guide rod:	Ø30 x 1040mm



K0 Consolidometer

Specimen:	Ø61.8x40mm
Axial Load:	6kN
Confining pressure:	0kPa – 1000kPa
Axial displacement:	0 – 10mm
Ambient temp:	20 ± 5°C, Relative humidity: <85%
Proving ring relative error:	< ± 1% Height relative error: +2%
Axial displacement error:	0.03mm Minimum division value: 0.01mm
Pressure chamber:	It is not leakage under the rated pressure Volume deformation is less than 0.20ml



ZJ Series Strain Controlled Direct Shear Apparatus
(Two Speed, Three speed)

Vertical load:	Selectable 400kPa, 300kPa, 200kPa, 100kPa, 50kPa
Horizontal load:	1.2kN
Lever ratio:	1:12
Specimen area:	30cm ²
Power supply:	220V ± 10%, 50Hz



ZJ Light-duty Strain Controlled Direct Shear Apparatus

Specimen area:	30cm ² x2cm(H)
Lever ratio:	1:20
Vertical load to be added:	50, 100, 200, 300, 400kPa
Horizontal load:	Max. 1.2kN



GZQ-1 Full Automatic Pneumatic Consolidometer

Capacity:	0–4.8kN
Load accuracy:	≤100kPa
Specimen area:	30cm ² , 50cm ²
Pneumatic control range:	0–0.9MPa
Pressure transducer:	0–1.0MPa
Converter channel:	1–16
Power supply:	220V ± 10% 50Hz



ZJ Quadruplex Strain Controlled Direct Shear Apparatus

Vertical load:	Max. 400kPa
Pressure grade:	100, 200, 300, 400kPa
Lever ratio:	1:12
Shear cell:	4
Horizontal shear force:	Max. 1.2kN
Specimen area:	30cm ² x 2cm(H)
Speed:	2.4, 0.8, 0.1, 0.02mm/min
Power:	<100W
Power supply:	220V ± 10%, 50Hz



ZYY-4 Direct Shear Pre-pressing Apparatus

Specimen area:	30cm ²
Capacity:	1.2kN maximum
Lever ratio:	12:1
Max. Pressure:	400kPa
Pressure grade:	50kPa, 100kPa, 200kPa, 300kPa, 400kPa.
Mold quantity:	12
Weight:	1x1.275kg, 3x2.55Kg



TSZ30 – 2.0 Bench Triaxial Test Apparatus

Specimen:	Ø39.1 × 80mm, Ø61.8 × 125mm
Capacity:	30kN
Platen travel:	0–90mm
Strain rate:	0.0024–4.5mm/min. Mechanical speed with 15 gears
Confining pressure:	0–2MPa Digital control and display
Pore pressure:	0–2MPa
Volume deformation:	0–50ml, minimum division:0.1ml
Power supply:	220V ± 10% ,50Hz



SKDJ-1 Digital Controlled Multi-functional Electric Soil Compactor

Heavy-duty compacting test:	Hammer: 4.5kg / Drop: 450mm
Light-duty compacting test:	Hammer: 2.5kg / Drop: 300mm
Size of the hammer head:	Ø50mm
Specimen cylinder diameter:	Ø152mm, Ø100mm
Compacting numbers:	30times/min.
Power Supply:	220VAC



TS-1 Soil Moisture Fast Tester

Volume to be tested:	60cm ³ , 100 cm ³
Ambient temp:	5–40°C
Accuracy:	< 2%



TSZ Series Full Automatic Triaxial Test Apparatus

Specimen size:	Ø39.1mm, Ø61.8mm, Ø101mm
Confining pressure:	0MPa – 2MPa
Back pressure:	0MPa–2MPa
Volume deformation:	0ml–50ml, 0ml–100ml
Axial force:	0–10kN, 0–30kN, 0–60kN
Pore pressure:	0MPa–2MPa
Shear speed:	0.0001mm/min–2.4mm/min 0.0001mm/min–4.8mm/min



JDS-3 Hand Compactor

Hammer:	2.5kg / 4.5kg
Drop:	305mm / 457mm
Mold:	Φ102x116mm, Φ152x116mm



WH-1 Soil Humidity and Density Test Apparatus

Diameter of Floatation Balance	4cm (neck tube)
Volume of cutting ring	200 cm ³
Weights	123g
Gravity of the soil to be tested	2.60 – 2.70g/cm ³
Range of humidity unit weight of scale plate	1.2 – 2.2g/cm ³
Range of dry unit weight of scale plate	1.0 – 2.2g/cm ³



TFB-1 Non-saturating Soil Stress-strain Controlled Triaxial Test Apparatus

Axial load:	0–5000N
Accuracy:	± 1% (10%–95%FS)
Control method:	Iso-strain control 0.002 – 4mm/min ± 10% Iso-stress control 0kN–5000N, Accuracy: ± 10%
Specimen:	Ø61.8 × 125mm, Ø39.1 × 80mm
Confining Pressure:	0–0.8MPa, Accuracy: ± 0.05%FS
Back pressure:	0–0.8MPa, Accuracy: ± 0.05%FS, setting value: 0.01–0.8MPa



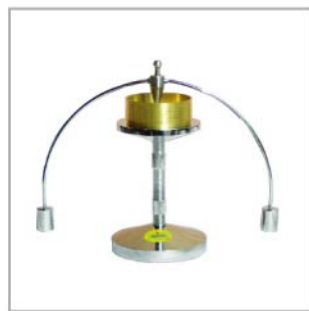
JDS-1 Digital Controlled Electric Soil Compactor

Hammer	2.5kg / Ø50mm, Ø51mm 4.5kg / Ø50mm, Ø51mm
Drop:	300mm or 305mm / 400mm or 457mm (selectable)
Mold dimension:	Φ100mm x 127mm, Φ102mm x 116mm Φ152mm x 116mm, Φ152mm x 120mm Φ152mm x 166mm, Φ152mm x 170mm
Power supply:	220VAC 50Hz



WZ-2 Swell Test Apparatus

Circular cutter:	Ø61.8 x 20mm
Level adjustment:	adjustable screws under the water container
Guide ring:	to prevent swell
Micrometer:	0 – 10mm(no included)



CD-1 Natural Consistency Meter

Angle of cone body:	30° with calibration tails at 2mm, 3mm, 7mm, 10mm, 17mm from cone sharp
Cone body weight:	76 ± 1g
Hold soil ring:	Dia. 50x20mm



TST-55 Permeameter

Specimen:	Φ61.8x40mm
Dimension:	182x172x190mm
Weight:	3.5kg



TST-70 Permeameter

Water percolating barrel:	Ø100 x 400mm
Manometrical tube distance:	100 ± 0.44mm



GZS-1 High-frequency Sieve Shaker

Shaking frequency:	2500/min.
Shaking method:	Up and down
Shaking amplitude:	1.5mm
Time setting:	0-60min.(selectable)
Sieve size:	Ø200mm / Ø300mm
Power supply:	220VAC



ZBSX-92A Standard Electric Sieve Shaker

Shaking times:	147tims/min.
Sieve sway times:	221tims/min.
Shaking amplitude:	8mm
Sieve size:	Ø200mm / Ø300mm
Power supply:	220VAC



AT200 Digital Control Analysis Sieves Shaker

Name:	Unit	Quantity
Screen layer:	layer	1 ~ 8
Screen diameter:	mm	Ø203 or Ø100 or Ø75
Sieve size:	mm	0.028 ~ 3
Noise:	dB	< 50
Amplitude:	mm	0 ~ 3
Vibration frequency:	t/min	3000; 6000
Operation mode:	kinds	2
Power:	V ;Hz	220; 50



Laboratory Analysis Sieves for Soil and Rock Testing

Dia.	Height	Frame	Bottom	Hole	Hole Size
300mm	50mm	Iron/s.steel	s.steel	Square / Round	Random
200mm	50mm	Iron/s.steel	s.steel	Square / Round	Random



Laboratory Analysis Sieves for Soil and Rock Testing (made of brass)

Dia.	Height	Frame	Bottom	Hole	Hole Size
200mm	50mm	Brass	Brass	Square / Round	< 4mm



Pressure Sieves for FSU-150

Material of Sieve:	plastic frame & copper bottom
Size of sieve:	Ø200 x 50mm(H), Ø300 x 50mm(H)
Opening size	0.08mm



SDT Soil pH-Moisture Meter

Measuring pH range:	3 ~ 8%
Measuring moisture range:	1-8%
Moisture accuracy:	± 1%
PH accuracy:	± 0.2 PH
Environment Temp:	5-50°C



CSY-2 Geo-synthetic Material Vertical Permeability Testing Machine

Specimen Size:	30cm ² -100cm ²
Constant head (stable head) adjusting range:	0-800mm
Measuring range:	10-1-10-5cm/s
Material:	All made of stainless steel



TSY-2 Geo-synthetic Material Horizontal Permeability Testing Machine

Specimen width:	100mm
Specimen thickness:	3-10mm
Specimen length:	40mm
Normal force:	0-500kPa
Constant head adjusting range:	0-800mm
Material:	All made of stainless steel



STDS-1 Disc Type Liquid Limit Tester

Feature:	It is made of a brass pan, a ban, an impacting device calculator, groove handler and according to ASTM D4318
Falling frequency of the disc:	120 strikes/min



FT-300 Specimen Microniser

Input power:	220V
Engine power:	800W
Speed:	2600r/min
Crushing chamber inner diameter:	300cm ²
Sieve opening:	1-0.6



STGD-3 Photoelectric Liquid and Plastic Tester

Cone angle:	30°
Cone weight:	76g 100g
Power supply:	220VAC



SYS Liquid and Plastic Limit Tester

Cone-quality	76 ± 0.1g 100 ± 0.1g
Function	Electricity and water traffic
Reading time	0.01mm
Delay time	5 ± 0.5sec
Measuring distance	0-25mm



ZY Liquid Limit

Cone	30° with circular graduated, 30°
Cone weight	selectable 76g ± 0.2g, 100g ± 0.2g
Soil sample cup	Ø46 x 32mm



QF-1 Soil Riffle Box

Slot width (mm):	7/13/15/19/25/30/38/50/64
Number of slots (mm):	14/12/12/10/10/8/8/8



QI-1 Trimming Plate

Specimen:	Ø39.1 × 150mm
Weight:	5Kg



QL-1 Alum. Sample Box

Size:	D70 × 38mm, D5 × 28mm, D40 × 20mm
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Stainless Steel Cutting Ring

Size:	D61.8 × 20mm / D79.8 × 20mm D50.4 × 50mm / D70 × 52mm
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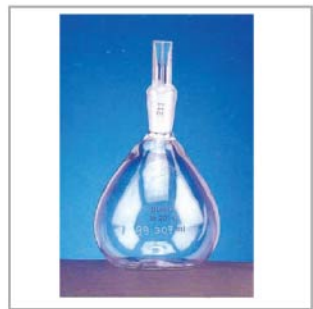
Desiccator(normal/vacuum)

Dia:	300mm (made by glass)
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Le Chatelier Flask

Capacity:	250ml
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Density Bottle

Capacity:	100ml
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Sleeve Membrane / Latex Film

NO.	Dia. (mm)	Length (mm)	Thickness (mm)	NO.	Dia. (mm)	Length (mm)	Thickness (mm)
1	35	150	0.2 - 0.25	8	70	600	0.25 - 0.35
2	38	160	0.2 - 0.25	9	100	320	0.25 - 0.35
3	38	160	0.4 - 0.5	10	100	320	0.5
4	50	200	0.2 - 0.25	11	100	320	1
5	50	200	0.45 - 0.5	12	100	550	0.3 - 0.4
6	70	240	0.25 - 0.35	13	150	450	0.25 - 0.35
7	70	450	0.25 - 0.35	14	150	450	1



JJ-5 Cement Mortar Mixer

Width of mixing blade:	135mm
Mixing bowl capacity:	5L
Speed of mixing blade:	140 ± 5r/min.(low speed) 285 ± 10r/min.(high speed)
Power supply:	220VAC,50Hz,550W



ZS-15 Cement Mortar Jolting Machine

Amplitude:	15mm
Vibrating frequency:	1Hz
Working cycle:	60
Centre distance between tale and arm shaft:	800mm
Power supply:	220V 50Hz,70W



Apparatus for Testing Normal Consistency and Setting Time of Cement Paste (VICAT)

Weight of sliding part	300g
Max. fall distance	70mm



HBY-30/40A Constant Temp. Humidity Curing Cabinet

Product Model	HBY-30	HBY-40A
Effective capacity	0.3m³	0.4m³
Temp. control	0 - 20	0 - 20
Temp. variation	± 1°C	± 1°C
Humidity control range	≥ 95%	≥ 95%
Power	220V 560W	220V 560W



NJ-160A Cement Paste Mixer

Width of mixing blade:	111mm
Width of inside diameter of bowl depth blade:	φ 160mm × 139mm



SM-500 Test Mill

Inside dia. of barrel and length:	φ 500 × 500mm
Grinding mediums:	100kg
Material size:	< 7mm
Loading capacity:	≤ 5kg
Barrel speed:	≈ 48r/min
Grinding time:	≈ 30min
Power:	380V,50Hz,1.5KW



Type 175 Disc Grinder

Disc dia:	Ø175mm
Material size:	≤ 4mm
Outlet particle size:	0.15mm
Capacity:	25kg/h
Power supply:	380V,50Hz,1.1KW



SBT-127 Digital Blaine Air Permeability Apparatus

Inside dia. of permeability cell:	φ 12.7mm
Height of sample in the cell:	15mm
Perforated disk:	35 (hole)
Diameter of the hole:	φ 1.0mm
Thickness of disk:	1.0mm
Power:	220VAC



FZ-31A Steam Tank for Cement

Effective volume	31L
Heating time	3h
Power supply	220V,50Hz,4KW



LD-50 Lechatelier Mould Tester for Cement Specimen

Counter weight:	300g
Min. division of scale:	0.5mm



LJ-175 Lechatelier Mould

Max. expansion value with a weight of 300g:	$\leq (17.5 \pm 2.5)$ mm
Normal distance between two pointers:	10mm



NY-1A Slurry Test Package (Three-piece suit)

Content:	1.NA-1 Sand Content Tester 2.NB-1 Slurry Gravimeter 3.Type 1006 Slurry Viscometer.
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Model HC-7L Concrete Mix Air Entrainment Meter

Bowl capacity:	7L
Air content range:	0-10%
Max. size of aggregate:	40mm



Model HS-4 Permeability Apparatus

Max. pressure:	4MPa
Specimens:	6pcs
Mode:	constant pressure and pressure increasing
Power:	220V 120W



ML-200 Anchor Testing Apparatus

Working pressure:	200kN
Piston stroke:	80mm
Measuring range:	0 - 200kN
Selectable capacity:	100/150/300/500KN



HZ-15C Pavement Core Drilling Machine

Drilling diameter:	Ø150mm max.
Drilling depth:	400mm max.
Power:	5.5HP
Rotated speed:	200 - 1000r/min.
Power supply:	220VAC w/Honda power



HQ-15 Concrete Specimen Slicer

Specimen:	Ø50、Ø70、Ø75、Ø100、Ø150mm
Specimen length:	400mm
Rotated speed:	2300r/min
Saw diameter:	Ø400mm



LQ-100 Strength Testing Machine For Pavement Material

Speed:	1(1.27)mm/min.& 50mm/min.
Loading height:	200mm
Load capacity:	100KN
Power supply:	220VAC or 380VAC



Model ZT-1 x 1 Vibrator

Table:	1000 x 1000mm
Amplitude(without load):	0.5mm
Max.load:	250kg
Vibrating Frequency:	50Hz
Power:	≈380V 50Hz 1.1kW



ZC3-A Concrete Resiliometer

Length of pointer:	20.0 ± 0.2 (mm)
Friction of pointer:	0.65 ± 0.15 (N)
Sphere semi diameter at the end of the flip rod:	25 ± 1.0 (mm)
Rigidity of flip tensioned spring:	785.0 ± 40.0 (N/m)
Location of flip hammer's hook release:	"100" at the scale mark
Work length of flip tensioned spring:	61.5.0 ± 0.3 (mm)
Strike length of flip hammer:	75 ± 0.3
Hop location of the flip hammer:	"0" at the graduated scale
Fixed value of steel anvil:	80 ± 2 (our products are controlled between 80-81)



TLY-1 Cement Slump Test Apparatus

Upper mouth diameter:	Φ 100mm
Lower mouth diameter:	Φ 200mm
Height:	300mm
Tamping rod:	Φ 16mm



CBR Value Testing Apparatus

Hydraulic jack:	100kN
Capacity:	60kN
Penetrating rod:	Ø50mm x 200mm(L)
Bearing plate:	1.25kg/ea.



SD-II Sand Equivalent Test Apparatus

Vibrating frequency:	90times/min
Amplitude:	203mm ± 1.0mm
Self-control time:	30s / 1 time
Testing tube:	32 ± 0.25mm inside dia. with height 420 ± 0.25mm4pcs
Piston:	1pc
Washing pipe:	1pc
Thick liquor:	4 bottles
Steel ruler:	1pc



CBR-1 Value Test Apparatus

Capacity:	30kN/50kN(selectable)
Load speed:	1.0mm/min
Penetrating bar:	Ø50mm x 100mm
Platen size:	Ø170mm
Platen travel:	50mm
Mold:	Ø152mm x 170mm



CLD-3 Static Penetration Testing Apparatus

Penetrating force:	3T
Penetrating speed:	0.8 - 1.2m/min

KXO-1 Engineering Inclinometer

Inclinometer probe:	φ 34 × 800mm
Rectangular error of accelerometer sensor:	≤ 0.5°
Distance interval between guide wheels:	500 mm
Measurement accuracy:	0.5mm/1m, with resolution of 5
Measurement range:	0~30°
Measurement depth:	≤ 50 m
Cable:	60 m;
Working temperature:	(1) Controlling case: -10°C ~ +50°C; (2) Inclinometer probe: 0°C ~ +50°C;



JJC-1D Detection System for Borehole of Concrete Pile

Borehole diameter measurement range:	(1) φ500mm ~ φ1200mm (JJY-2); If with extending leg of 200 mm, measure range can be 1600 mm; (2) φ1000mm ~ φ1800mm (JJY-5); If with extending leg of 770 mm, measure range can be 2800 mm;
Borehole diameter measurement error:	(1) ± 15 mm (JJY-2); (2) ± 25 mm (JJY-5);
Current for caliper:	10 mA
Sensitivity of caliper:	≥ 100mV/10cm (when current is at 10 mA)
Cable length:	100 m (maximum is 125 m)
Tension of cable:	0.35t (It will broken at 0.65 t)
Drag thickness determination:	(1) Distance interval between electrodes: 0.02m ± 0.5mm; (2) Measure error of electric resistance: ≤ 5%;
Verticality determination:	(1) Measurement range: 0 ~ 10° ; (2) Resolution: 0.05° ; (3) Measurement error: ≤ ± 0.1% ;
Depth indication error:	≤ 1‰
Working temp.:	(1) Measurement probes: 0 ~ 50°C; (2) Controlling case: -10°C ~ 45°C (3) Relative humidity: <85%;
Pressure endured by caliper:	≥ 3Mpa
Power supply:	AC 220V, 50 Hz, 50 W



KXP-2D Small-bore Digital Compass Inclinometer

Measurement depth:	≤ 1500 m
Measurement range / error:	(1) Dip angle: 0 ~ 50° , ± 0.2° (2) Azimuth angle: 0 ~ 360° ; When dip angle at 1 ~ 3° , error is ± 5.0° ; When dip angle at 3 ~ 50° , error is ± 3.0° ;
Measurement mode:	at fixed points
Delay time:	1 ~ 180 min
Time interval:	1 ~ 60 min
Measurement points:	1 ~ 100
Inclinometer probe:	φ 40mm × 1320mm



82 Rotation Film Oven For Asphalt

Accuracy of control:	163°C ± 1°C
Revolving speed of sample turntable:	5.5r/min
Time for each test:	5.25h
Dimensions of the workroom:	430 × 410 × 450mm
Mains voltage:	220V~2.5 KW
Quantity of samples for each test:	4 Pcs



LYS-1.5 Asphalt Ductility Test Apparatus

Speed:	adjustable from 10mm ± 0.5mm/min to 50mm ± 2.5mm/min
Temp. control:	25°C ± 0.5°C
Ductile length:	selectable 1.5m, 2m
Bath dimension:	1600 × 280 × 200mm (1.5m) 2100 × 280 × 200mm (2m)
Power supply:	220V 50Hz



SMDJ-1 Digital Controlled Marshall Electric Compactor

Hammer mass:	4.536kg ± 0.009kg
Hammer head:	Ø98.5mm
Drop:	457.2mm
Compacting frequency:	60times/min



LLC-15 Centrifugal Asphalt Extraction Apparatus

Drum capacity:	> 1.5L
Drum rotating speed:	≥ 3000r/min.
Power:	400W



LHB-II Asphalt Mixture Mixing Machine

Blending cubage:	10L, 20L
Temperature range of blend bowl:	room temperature ~ 200°C
Temperature controlling accuracy:	± 2 °C
Stirring blade speed:	(1) Revolution speed: 45 RPM; (2) Rotation speed: 78 RPM;
Power:	220VAC, 2000W, 50Hz



LWD-1 Marshall Stability Test Apparatus

Capacity:	30kN
Proving ring:	30kN
Pressure ring accuracy:	0.01kN
Load pressing head:	R50.8mm
Micrometer:	0.01cm
Mold:	Ø101.6 × 87.0mm
Specimen:	Ø101.3 × 63.5mm



HCT-1 Bitumen High-speed Extraction Apparatus

Weight of material bowl:	3kg
Rated revolution:	3000rpm
Power supply:	380VAC



SYD-0621 Asphalt Standard Viscometer

Circular water bath:	(1) Inner diameter: 160 mm; (2) Depth: 116 mm;
Sample tube:	4 pieces in 1 set; their diameters of effuse holes are φ 10mm ± 0.025mm, φ 5mm ± 0.025mm, φ 4mm ± 0.025mm, and φ 3mm ± 0.025mm respectively;
Ball-like stopper:	(1) Diameter of ball section: 12.7mm ± 0.05mm; height of Mark: 92mm ± 0.25mm; (2) Diameter of ball section: 6.35mm ± 0.05mm; height of Mark: 90.3mm ± 0.25mm;
Temperature controlling range:	room temperature~90°C;
Temperature controlling accuracy:	± 0.1°C;
Timing resolution:	0.1 s, the maximum timing value is 999.9 s;
Heating type:	by an electric heater; Use a circulation pump to circulate bath liquids, so that to control temperature of water bath; heating power is 600 W;
Ambient temperature:	-10~35°C;
Relative humidity:	≤ 85%;
Size:	length 420 mm, width 340, height 570 mm;
Power supply:	AC 220V ± 10%, 50 Hz;
Total power consumption:	not more than 700 W;



Compression Testing Machine w/digital Display

Specification:	Model	TYA-1000	TYA-2000
Max. capacity (KN):		1000	2000
Rated pressure(MPa):		40	40
Size of platens(mm):		230x290	230x290
Max. travel of ram (mm):		40	40
Distance between platens (mm):		310	330
Power supply:		220VAC 750W	



Compression Testing Machine w/dial Gauge

Specification	Model	TYE-1000	TYE-2000
Max. capacity (KN):		1000	2000
Rated pressure(MPa):		40	40
Relative error (%):		± 1%	± 1%
Max. travel of ram (mm):		20	20
Measuring Range (KN):		0-500, 0-1000	0-800, 0-2000
Size of platen (mm):		300x210	290x230
Distance between platens (mm):		320	320
Power supply:		220VAC 750W	



Compression & Flexure Testing Machine w/digital Display

Specification	Model	TYA-300	TYA-100C	TYA-300C
Max. Capacity (KN):		300	100	300
Relative error:		± 1%	± 1%	± 1%
Rated pressure (Mpa):		25	25	25
Size of platens (mm):		φ 155mm	φ 155	φ 155
Diameter of ram (mm):		180	180	180
Max. travel of ram (mm):		80	80	80
Diameter of ram (mm):		φ 125	φ 90	φ 125
Power supply:		220VAC	220VAC	220VAC



Compression Testing Machine w/PC Control & Automatic Loading

Specification	Model	TYA-2000S	TYA-3000S
Max. capacity (KN):		2000	3000
Size of platen (mm):		260 x 320	340 x 340
Diameter of ram (mm):		Ø250	Ø310
Relative error (%):		± 1%	
Distance between platens (mm):		320	
Max. travel of ram (mm):		50	
Rated pressure(Mpa):		40	
Power supply:		220VAC 750W	



Compression Testing Machine w/digital Display

Specification	Model	TYA-5000A
Max. Capacity (KN):		5000
Relative error:		± 1%
Size of platens (mm):		Ø540
Distance between platens (mm):		670
Max. travel of ram (mm):		120
Diameter of ram (mm):		Ø420
Power supply:		380VAC



Compression Testing Machine w/PC Control

Specification	Model	TYA-300A
Max. Capacity (KN):		300
Relative error:		± 1%
Distance between platens (mm):		180
Max. travel of ram (mm):		80
Diameter of ram (mm):		Ø125
Power supply:		220VAC



Compression Testing Machine w/PC Control & Automatic Loading

Specification	Model	TYA-2000E	TYA-3000E
Max. capacity (KN):		2000	3000
Size of platen (mm):		260 x 320	340 x 340
Diameter of ram (mm):		Ø250	Ø310
Relative error (%):		± 1%	
Distance between platens (mm):		320	
Max. travel of ram (mm):		50	
Power supply:		220VAC 750W	



Compression Testing Machine w/PC Control

Specification	Model	TYA-2000A
Max. capacity (KN):		2000
Relative error (%):		± 1%
Distance between platens (mm):		330
Max. travel of ram (mm):		40
Diameter of ram (mm):		Ø250
Rated pressure(Mpa):		40
Power supply:		220VAC



Flexure and Compression Testing Machine w/PC Control

Specification	Model	TYA-300B
Max. Capacity (KN):		300
Max. Capacity for bending test(KN):		10
Relative error:		± 1%
Load speed for compression test(KN/S.):		0~10
Load speed for bending test(KN/S.):		0~0.075
Power supply:		220VAC



UTM5000 Series Floor-Standing Electromechanical Universal Testing Machine

Model	5504 / 5105	5205/5305/5505/5605
Capacity(KN)	50/100	200/300/500/600
Crosshead speed range(mm/min)	0.001 ~ 500	0.001 ~ 250
Frame dimension(MM)	1063 x 653 x 2218	1066 x 815 x 2483
Effective test space	600mm	586mm
Accuracy	Class 0.5	
Loading speed range	0.005 ~ 5%FS/s	
Extension speed range	0.005 ~ 5%FS/s	
Constant load, strain, displacement control range	0.5% ~ 100%FS	
Max. tensile/compression space	500/950mm	
Voltage	380V/50Hz, ± 10%	



JSL Series Tensile Testing Machine (single column)

Capacity (N):	100/250/500/1000/2500/5000
Accuracy:	grade 1
Measuring range:	0.25 / 0.5 / 0.75 / 1.0
Relative error:	≤ ± 1.0%
Effective tensile stroke:	800mm
Speed adjusting range:	25 ~ 500mm/min
Power supply:	220VAC 550W

JWL Series Universal Testing Machine (double column)

Capacity (N):	10/20	30/50	100
Effective test width:	410mm		420mm
Effective tensile stroke:	750mm		580mm
Speed adjusting range	10-250mm·min ⁻¹		5-150mm·min ⁻¹
Accuracy:	grade 1		
Relative error:	≤ ± 1.0%		
Power supply:	220VAC OR 380VAC		





Universal Testing Machine w/Dial Gauge

Specification	Model	WA-1000D	WA-600D	WA-300D
Max Capacity (KN):		1000	600	300
Measuring Range (KN):		0 ~ 200/ 500/1000	0 ~ 120/300/600	0 ~ 60/150/300
Max. distance between flexible clips:		500		
Distance between upper & lower platens:		0 ~ 500		
Distance between two fulcrums of bending test:		100 ~ 420	100 ~ 360	100 ~ 360
Clipping diameter for round specimen:		Φ20 ~ Φ60	Φ13 ~ Φ40	Φ8 ~ Φ32
Clipping thickness for flat specimen:		0 ~ 40	0 ~ 15	0 ~ 15
Max. ram travel (mm):		200		150
Max rising speed of the ram (without load) (mm/min):		0 ~ 80		
Old model No:		WVE-1000/600/300B		



Universal Testing Machine w/PC Control

Specification	Model	WA-1000A(C)	WA-600A(C)	WA-300A(C)	WA-100A(C)
Max Capacity (KN):		1000	600	300	100
Measuring Range (KN):		0 ~ 1000	0 ~ 600	0 ~ 300	0 ~ 100
Max. distance between flexible clips:		500			
Distance between upper & lower platens:		0 ~ 500			0 ~ 450
Distance between two fulcrums of bending test:		100 ~ 420	100 ~ 360	100 ~ 360	100 ~ 300
Clipping diameter for round specimen:		Φ20 ~ Φ60	Φ13 ~ Φ40	Φ8 ~ Φ32	Φ6 ~ Φ22
Clipping thickness for flat specimen:		0 ~ 40	0 ~ 30	0 ~ 15	
Max. ram travel (mm):		200		150	

NOTE: C Series include electrical server.



Universal Testing Machine w/digital Display

Specification	Model	WA-1000B	WA-600B	WA-300B	WA-100B
Max Capacity (KN):		1000	600	300	100
Measuring Range (KN):		0 ~ 1000	0 ~ 600	0 ~ 300	0 ~ 100
Max. distance between flexible clips:		500	500	500	450
Distance between upper & lower platens:		0 ~ 500			0 ~ 450
Distance between two fulcrums of bending test:		100 ~ 420	100 ~ 360	100 ~ 360	100 ~ 300
Clipping diameter for round specimen:		Φ20 ~ Φ60	Φ13 ~ Φ40	Φ8 ~ Φ32	Φ6 ~ Φ22
Clipping thickness for flat specimen:		0 ~ 40	0 ~ 15	0 ~ 15	0 ~ 15
Max. ram travel (mm):		200		150	



Universal Testing Machine for Steel Strand w/PC Control

Specification	Model	WA-1000C-I	WA-600C-I
Max Capacity (KN):		1000KN	600KN
Measuring Range (KN):		0~1000KN	0~600KN
Time for Load Maintained:		≥ 30s	
Max. distance between flexible clips (including ram travel):		1100mm	
Distance between platens (mm):		0~800mm	
Distance between two fulcrums of bending test:		100mm~420mm	100mm~360mm
Clipping diameter for round specimen:		Φ12.7mm 15.2 mm	
Clipping thickness for flat specimen:		0~40mm	0~15mm
Max. ram travel (mm):		200mm	



Compression Jig 40mm x 40mm

Length of upper and lower platens:	40mm
Width of upper and lower platens:	> 40mm
Vertical clearance between platens:	> 45mm



Flexure Jig 40mm x 40mm x 160mm

Diameter of bearer:	10mm
Distance between lower bearers:	100mm



40 x 40 x 160mm Mould For Cement Mortar

Material:	s. steel
Dimension:	245x165x60mm



Plastic Mould

THREE GANG MOULD:	100x100x100 / 150x150x150 / 50x50x50mm
OND GANG CUBE MOULD:	100x100x100 / 150x150x150 / 200x200x200 / 70.7x70.7 x70.7 mm



Cast-iron Mould

THREE GANG MOULD:	100x100x100 / 150x150 x150 / 50x50x50mm
OND GANG CUBE MOULD:	100x100x100 / 150x150x150 / 200x200x200 / 70.7x70.7x70.7 mm



Cast-iron Cylinder Mould

Size: D150x300mm



CLAMP FOR COMPRESSION TESTING MACHINE.



Tensile Clamp For Geo-textile Sample



LLB Series Mechanical Dynamometer

Gauge size:	Measuring range	Dial dia.
Small-sized gauge:	3T/5T/8T/12T	175mm
Big-sized gauge:	3T/5T/8T/12T/16T	330mm



TBT-HT-180 Portable Hardness Tester

Measure range:	(170~960)HLD/(17~68.5)HRC (19~65)HB/(80~976)HV/(30~100)HS (59~85)HRA/(13~100)HRB
Measure direction:	360° (↓↙↘↗↖↕↔↗↖↕↔)
Data memory:	100 groups
Continuous working period:	about 100 hours (With backlight off)
Communication interface:	RS232



TBT-HT-310 Portable Hardness Tester

Measure range:	HLD (170 ~ 960) HLD
Measure direction:	0° ~ 360°
Hardness Scale:	HL/HB/HRB/HRC/HRA/HV/HS
Data memory:	100 groups max.
Continuous working period:	about 150 hours



HBRVU-187.5 Rockwell, Brinell, Vickers Hardness Tester

Preliminary test force (N):	98
Total test force (N):	588,980,1471
Brinell hardness test(N):	306,613,1839
Vickers hardness test(N):	294,588,980
Magnification of Microscope:	37.5 75
Max. height of specimens(mm):	180
Distance from Indenter's center to OuterWall:	200mm
Power Supply:	AC220V/50HZ



DJCK-2 Crack Width Measurement Instrument

Amplified multiple:	40(standard) 50 (optional)
Test range:	0.02~2.0mm
Interpolation:	0.01mm
Voltage:	12VDC



HR-150A Rockwell Hardness Tester

Preliminary test force (N):	98
Total test force (N):	588, 980, 1471
Total test force dwell time(s):	0~30
Max height of specimens(mm):	170
Distance from Indenter's center to OuterWall:	165mm
Range of hardness value:	HRA 20 ~ 88 HRB 20 ~ 100 HRC 20 ~ 70



DJCS-05 Crack Depth Measurement Instrument

Separate type:	10~350mm
Test precision:	5%
Data storage:	10600 depth data
Display:	4" Resolution 160 x 128
Power supply:	9VDC (6 AA battery)
Work environment:	Temp. -5~40°C



Coating Thickness Gauge

Product Model	Min. Resolution	PCconnect Function	Separate type
TBT-TT2100F: 1μm	No	F type probe	only use F type probe
TBT-TT2100N: 1μm	No	N type probe	only use N type probe
TBT-TT3100: 0.1μm or 1μm	No	magnetic probes & turbine probes	No
TBT-TT4100: 0.1μm or 1μm	Yes		Yes



DJGW-2A Steel Bar Position Mensuration Apparatus

Diameter	Φ6mm ~ Φ40mm
Maximal error:	6~79mm, ≤ ± 1 80~119mm, ≤ ± 2 120~190mm, ≤ ± 4
Temp:	-10°C ~ +40°C
Humidity:	<90%RH



DJXS-05 Corrosion Analyzing Instrument (scene test)

Test electric potential:	± 1000mv
Test precision:	± 1mv
Reading Storage:	228000 readings
Test Area:	Max 1600m²
Set point distance:	1~60cm optional
Work temp:	0~40°C



Portable Ultrasonic Flaw Detector

	TBT-UT350B	TBT-UT500
Range:	(0 ~ 6000) mm	(0 ~ 9999) mm
Bandwidth:	(0.5 ~ 10) MHz	(0.5 ~ 15) MHz
Material Velocity:	(1000 ~ 9999) m / s	
Dynamic Range:	≥ 32dB	
Vertical linear error:	≤ 3%	
Horizontal linear error:	≤ 0.2%	
Sensitivity Leavings:	60dB (flat-bottomed deep hole 200mmΦ2)	
Rejection:	(0 to 80)% Linear	



Portable Directional X-ray Flaw Detectors (glass X-ray tube)

Model:	XXQ-1005~XXQ-3505
Voltage(kv):	50~350
Focus size(mm):	0.8 x 0.8~2.8 x 3.0
Radiation Coverage:	40° ~40+5°
Max. Penetration A3 Steel:	8~60mm
Generator Weight (kg):	11.1~47



Portable Panoramic X-ray Flaw Detectors (glass X-ray tube)

Model	XXH-1005~XXH-3505
Voltage(kv):	50~350
Maximum Rating (kW):	1.2~3.4
Focus size(mm):	1.0 x 3.5~1.0 x 5.0
Radiation Coverage:	Cone Target 30+5° Level Target 25+5°
Max. Penetration A3 Steel (mm):	Cone Target 4~52 mm Level Target 6~55 mm
Generator Weight (kg):	11.1~42.6



Portable X-ray Flaw Detector (with rippled ceramic X-ray tube)

Model	XXG-1605~XXG-3505
Voltage(kv):	60~380
Maximum Rating (kW):	1.5~3.5
Focus size(mm):	0.8 x 0.8~2.5 x 2.5
Radiation Coverage:	40+5°
Max. Penetration A3 Steel:	19~60 mm
Generator Weight(kg):	14.5~38



Portable Ultrasonic Flaw Detector

Model:	TBT-UT800B
Range:	0 to 9999 mm, at steel velocity
Material Velocity:	1000 to 9999m/s
Test Modes:	Pulse echo/ dual element/ thru-transmission
Pulser:	Tunable Square Wave Pulser
Damping:	100, 200, 400 ohms
Bandwidth:	0.5 to 15 MHz
Rectification:	Positive halfwave, negative halfwave, fullwave, RF
System Linearity:	Horizontal: +/-0.2% FSW, Vertical: 0.25% FSH, Amplifier Accuracy +/-1 dB.



Probe for Flaw Detector

Dia:	14mm	6mm	12mm	10mm
Freq:	2.5MHZ	7MHZ	5MHZ	5MHZ



Testing Block for NDT Products(V1/V2)

Product Model	Product Description
V-1:	Holland Testing Block
V-2:	Horn-shaped Testing Block



SYD-3536 Cleveland Open Cup Flash Point Tester

Flame application device:	automatically scan
Thermometer:	-6 ~ 400°C; Each scale division is 2 °C
Thermometer:	Ignition source coal gas (or any other combustible gas)
	Spout aperture 0.6~0.8 mm
Ambient temperature:	-10°C~50°C
Relative humidity:	≤85%
Power supply:	AC 220V ± 10%, 50 Hz;



SYD-3536A Cleveland Open Cup Flash Point Tester

Temperature measurement:	Full scale	Ambient temperature to 300 °C
	Repeatability	≤8°C
	Reproducibility	≤16°C
	Resolution	0.1°C
	Precision	0.5%
Ignition mode:	by an electric flame	
Power supply:	AC 220 V ± 10%, 50 Hz	



SYD-262A Aniline Point Tester

Temp. controlling range:	room temperature~200°C
Temp. controlling accuracy:	≤0.5°C
Power supply for illumination:	5 V
Heating power:	2 kW
Power supply:	220VAC



WNE-1A Engler Viscometer (Digital Displays)

Standard water value:	51 ± 1s
Temp. range:	0 ~ 100°C
Temp. controlling accuracy:	± 0.2°C
Graduated flask:	200 ± 0.2ml
Inner container:	made by stainless steel



WNE-1B Engler Viscometer (Double Units)

Standard water value:	51 ± 1s
Temp. range:	0 ~ 100°C
Temp. controlling accuracy:	± 0.1°C
Graduated flask:	200 ± 0.2ml
Timing mode:	LED
Inner container:	Made by stainless steel
Power supply:	AC 220V ± 10%, 50Hz



SYD-5096A Copper Strip Corrosion Tester

Temp. sensor:	Industrial platinum resistance, Pt100
Heating power for temp. controlling:	600 W
Heating power for auxiliary heating:	1000 W
Sample hole:	4 pieces
Sample quantity:	4 to 12 pieces;
Power supply:	220 V ± 10%, 50 Hz



SYD-260A Water Content Tester (Double Units)

Heating power of electric furnace:	1000W × 2
Heating control:	Bidirectional silicon controlled rectifier
Ambient temp./humidity:	≤35°C / ≤85%
Power supply:	AC 220V ± 10%, 50 Hz



SYD-261 PMCC Flash Point Tester

Sample temp. rising rate:	1 ~ 12°C per min., manually controlled	
Electric stirring device:	Stirring motor	45TYZ Motor
	Driving device:	by a soft shaft
	String blades pefication	8 x 40 mm
Stirring speed:	90 ~ 120 RPM for procedure A 250 ± 10 RPM for procedure B	
Power supply:	AC 220V ± 10%, 50 Hz	



SYD-261A Automatic PMCC Flash Point Tester

Measurement range:	Ambient temp. ~250°C
Error:	below 104°C:2°C over 104°C:6°C
Resolution/ Precision:	0.1 °C/ 0.5%
Testing tube:	inside dia.:32 ± 0.25mm height: 420 ± 0.25mm 4pcs
Ambient temp./ humidity:	10~40°C/≤80%
Power supply:	220VAC 50Hz



SYD-6536 Distillation Tester(Front Type)

Heating power of electric furnace:	1000 W
Ambient temp:	room temperature to 35°C
Relative humidity:	≤85%
Power supply:	AC 220V ± 10%, 50 Hz



SYD-6536B Distillation Tester (low temp. Double units)

Volume of graduated flask:	100 ml(division of 1ml)
Temp. controlling range:	0°C ~ 60°C
Temp. controlling accuracy:	± 0.5°C
Temp. display mode:	LED display
Refrigeration device:	by compressor
Power supply:	220VAC 50Hz



SYD-380B Sulphur Content Tester(Lamp Method)

Ambient temp:	-10 °C ~ 40 °C
Relative temp:	≤ 85%
Power supply:	AC 220 V ± 10%, 50 Hz



SYD-0168 Petroleum Products Color Tester

Light source:	220 V, 100 W,
Temp:	2750 ± 50 K grinding milk white light bulb
Light holes:	26 pieces of Φ14
Color comparing tube:	Φ32 mm
Light source power:	220V



SYD-265C Petroleum Products Kinematic Viscosity Tester

Stirring motor:	6 W, 1200 RPM
Temp. range:	ambient temperature ~ 100°C
Temp. control accuracy:	± 0.1°C
Constant temp. bath:	20 L; two layers water bath
Temp. sensor:	Industrial Platinum Resistance; Pt100
Total power consumption:	not more than 1800 W
Power supply:	AC 220VAC



SYD-265G Low Temp. Kinematic Viscosity Tester

Refrigeration device:	by two compressors
Stirring motor:	6 W, 1200 RPM
Temp. range:	ambient temperature ~ -70°C
Temp. controlling accuracy:	± 0.1°C
Constant temp. bath:	5.8 L with stainless steel inner tank
Temp. sensor:	Industrial platinum, Pt100
Total power consumption:	not more than 1700 W



SYD-510E Petroleum Products Solidifying Point and Cold filter plugging Point Tester

Cold trough I:	room temp. ~ -51°C/±1°C
Cold trough II:	room temp. ~ -80°C/±1°C
Refrigeration device:	New type refrigerate compressor
Temp. display mode:	LED display
Ambient temp./ humidity:	≤30°C / ≤85%
Power supply:	220VAC 50Hz



SYD-1884 Petroleum Products Density Tester

Cubage of bath:	Φ300 x 380 mm
Heating power:	700 W; 1000 W
Temp. controlling range:	0°C ~ 100°C
Temp. controlling accuracy:	± 0.2°C
Temp. sensor:	Industrial platinum resistance, Pt100
Power supply:	AC 220V ± 10%, 50 Hz



NDJ-1 Rotational Viscometer

Measuring range:	10 ~ 100000mPa.s
Error:	± 5%
Spindle:	4 spindles
Rotating speed:	6 /12/30/60RPM
Power supply:	AC 220V ± 0.1, 50 Hz



NDJ-1B Rotational Viscometer with Digital Display

Measuring range:	10 ~ 2000000MPa.s
Error:	± 3%
Spindle:	4 spindles
Rotating speed:	0.3/0.6/1.5/3/6/12/30/60 RPM
Power supply:	AC220V ± 0.1 50Hz ± 0.1



NDJ-1F Rotational Viscometer

Measuring range:	25MPa.s ~ 1 × 1000000MPa.s
Spindles:	No.21, 27, 28, 29
Spindle speed:	0.1 ~ 100 RPM
Measuring error	± 2% (F.S)
Temp. range/accuracy:	25°C ~ 200°C/ ± 0.1°C
Power supply:	220VAC 50Hz



NDJ-79 Rotational Viscometer

Measuring range:	1~1000000 mPa.s
Spindles:	Unit II, and III
Spindle speed:	750 / 75 / 7.5 RPM
Measuring error:	± 5%
Power supply:	220VAC 50Hz



XRY-1A Oxygen Bomb Calorimeter

Value of heat capacity:	15 kJ/K
Measure accuracy:	≤ 0.2%
Endured pressure:	20 Mpa
Temp. control range/ resolution:	10°C~35°C/0.001 °C
Power supply:	220VAC 50Hz



XSZ-158 Research Biological Microscope

Viewing head:	Compensation Free Binocular Head, Inclined adjustment 0° ~ 40°
Interpupillary Distance:	55mm ~ 75mm
Eyepiece:	WF10X/ 22mm
Nosepiece:	WF16X, WF20X, WF25X, P16X
Objective:	Quintuple nosepiece
Stage:	Sextuple nosepiece
Condenser:	Infinity plan objectives:4X,10X, 40X(S), 100X(S) Oil
Focusing:	Double layers mechanical stage
	Stage size:180mmX 160mm
	Moving range :75mmX 50mm
	Swing type N. A. 1.25 Abe condenser with iris diaphragm & filter
	Coaxial coarse& fine focusing adjustment with rack and pinion mechanism Fine focusing scale Value 0.002mm



Portable Measuring Microscope (XC Series)

Product Specification:	XC-100L	XC-50L	XC-40L	XC-20L
Total Magnification:	100 ×	50 ×	40 ×	20 ×
Spindles:	10 ×			
Objective:	10 ×	5 ×	4 ×	2 ×
Numerical Aperture:	0.25	0.12	0.1	0.05
Eyeiece Retile:	0.1mm			
Fine Division:	0.01mm	0.02mm	0.025mm	0.05mm
Working Distance:	6.93mm	17.6mm	18mm	17.2mm
Focus Range:	30mm			
Illumination:	Pen light, No.7 battery			



XJP-6A Metallurgical Microscopes

	Main Body		Main Body
S09	Mechanical stage with a stroke of 75 by 50 and size of 180 by 155	9J-6/7/8/11	Stage plate (1/ (2)/ (3)/holder
EP10	Plan eyepiece 10X-18	TBR03	Rotating binocular head (45 degree)
EP12.5	Plan eyepiece 12.X-14	LH01	Lamp housing
Epr10b	Plan retile eyepiece 10X-14	PO02	Halogen lamp 6V30W
M-OPr10	Plan chromate objective 10/0.25	PA01	Polarizer
M-OPr20	Plan chromate objective 20/0.35	PA01	Analyzer
M-OPr40a	Plan chromate objective 40/0.65	CL02	Specimen clamps
M-OSPr100	S-plan chromate objective 100/1.25 oil		



HP-200 Precise Color Reader

Repeat accuracy:	0.08
Lighting /inspecting system:	8 / d (8° Falloff / diffuse reflection) SCI (include Flat Mirror Light) / SCE (eliminate Flat Mirror Light)
Light source:	White light source
Inspection angle:	10° Angle of view in CIE
Inspection conditions:	D65,D50,F11
Display:	Lab,Lch Chromic values ΔEab Δ(Lab), Δ(LCH) color difference values
Test Caliber:	8mm



SP1104 VIS Spectrophotometer

Wavelength Range:	325~1000nm
Wavelength Accuracy:	± 2.0nm
Wavelength Repeatability:	1.0nm
Wavelength Repeatability:	Less than 1% at 340nm
Stray Radiant Energy	± 2%T
Photometric Repeatability	0.5%T



S22 Visible Spectrophotometer

Wavelength Range:	340~1000nm
Light Source Lamp:	Halogen-Tungsten Lamp 20W/12V
Wavelength Accuracy:	± 2 nm
Wavelength Repeatability:	1 nm
Band width:	6 nm
Photometric Accuracy:	± 0.5%(T)/SRM930D)
Photometric Repeatability:	0.3%(T)
Stray Light:	≤0.5%(T)



AAS-7003 Atomic Absorption Spectrophotometer

Wavelength Range	190nm ~ 900nm
Wavelength Accuracy:	Full Wavelength ≤ ± 0.2nm
Spectrum Bandwidth:	0.1, 0.2, 0.4, 2.0nm
Resolution:	Mn 279.5nm,279.9nm
Energy at the wave bottom	≤ 3%
Detecting methods:	Flame Graphite Furnace Background Absorption Flame Emission
Power Voltage:	110V/220V,50Hz AC,200W



HP-380 MULTI GLOSS METER

Measuring Angle:	Degree	20°, 60°, 85°
Incidence Angle:	GU	Gs(20°):0.0~120 Gs(60°):0.0~120 Gs(85°):0.0~120
Measuring Spot:	mm	Gs(20°):10x10/Gs(60°):9x15/Gs(85°):5x38
Resolution:	GU	0.1 0.1
Reproducibility:	GU	0.2 0.2
Repeatability:	GU	0.5 0.5
Deviation:	GU	+1.5 +1.5
Zero Point deviation:	GU	0.2



HP-2132 Portable Color Difference Meter

Test accuracy:	Within 0.2 ΔE*a b
Display:	ΔE*ab, CIE_Lab, ΔL, Δa, Δb, IE_Lch
Test Range:	L:0~100 /a: -128~-127 /b: 128~-127
Test time/interval:	About 3 seconds / 2second
Test aperture:	φ 8mm
Automatic shut down:	Automatic shutdown after 5 min. waiting
Light source:	C light source
Sensor:	Correct silicon photodiode arrays



WT-1 Digital Thermometer

Measuring range:	-50°C~+300°C (-58°F~+572°F)
Distinguish:	0.1°C
Accuracy:	±1°C (-20°C~+80°C) ±5°C (other range)
Screen size:	21 x 8mm



WT-2 Digital Thermometer

Measuring range:	-50°C~+300°C (-58°F~+572°F)
Distinguish:	0.1°C
Accuracy:	±1°C (-20°C~+80°C) ±5°C (other range)
Power:	DC1.5V 7#alkaline battery (optional)



ST-2 Digital Thermometer

Temp. measuring range	-50°C~+70°C
Resolution	>-20°C 0.1 ≤-20°C 1
Accuracy	±1°C



ST-1A Digital Thermometer

Temperature measuring range:	-50°C~+80°C (-58°F~+176°F)
Accuracy:	±1°C (-20°C~+80°C); ±2°F (-4°F~+176°F)
Resolution:	0.1°C
Sensors:	NTC sensors(1 meter long)
Using environment:	Temperature: 0°C~60°C, Humidity: 20~85%



DT-8820 4 IN 1 Multi-Function Environment Meter

Display:	LCD display
Polarity:	Automatic, (-) negative polarity indication.
Measurement rate:	1.5 times per second, nominal.
Storage temp:	-10°C to 60°C(14°F to 140°F) at < 80% relative humidity
Power:	One standard 9V, NEDA1604 or 6F22 battery.
Sound Measurement range:	A LO (low) - Weighting: 35~100 dB A HI (High) - Weighting: 65~130 dB C LO (low) - Weighting: 35~100 dB C HI (High) - Weighting: 65~130 dB Resolution: 0.1 dB
Instrument frequency range:	30Hz~10 KHz



BT-2 Digital Hygrometer

Indoor temp. measuring range:	-30°C ~ +50°C (-22°F ~ 122°F)
Outdoor temp. measuring range:	-50°C ~ +70°C (-58°F ~ 158°F)
Temperature resolution/accuracy:	0.1°C/±1°C
Indoor humidity measuring range:	20% ~ 99% (RH)
Humidity resolution/accuracy:	1% RH



DT-1308 / DT-1309 Digital II luminance Meter

Display:	3~3/4 digit LCD
Measuring Range:	Lux: 400.0 Lux, 4000 Lux, 40.00 Klux and 400.0 Klux fcd: 400.0 fcd, 4000 fcd, 40.00Kfcd. NOTE: 1fcd=10.76Lux, 1KLux=1000Lux, 1Kfcd=1000fcd
Spectral Response:	CIE Photonic
Spectral Accuracy:	CIE Vλ function f1' less than6%
Cosine Response:	f2' less than2%
Accuracy:	±5%rdg ±10d. (<10,000Lux) ±10%rdg ±10d. (<10,000Lux)
Repeatability:	±3%
Sampling Rate:	1.5 times/sec of analog bar-graph indication; 1.5times/sec of digital display.
Photo Detector:	One silicon photo diode and spectral response filter.



HR643 Wireless Thermometer with Dual Alarm Clock

Operating range:	5 to 50°C
Display:	4-line LCD(°C / °F) (temp./clock/humidity)
Transmission range:	30 meters
Humidity range:	20% to 95%RH
Power supply:	2pcs UM-4 or "AAA" 1.5V battery



HJ-6(A) Magnetic Stirrer

Max. pressure:	4MPa
Speed:	0~2500rpm(variable speed)
Heating Capacity:	200W
Motor power:	6 x 25W
Temp. Control range:	RT~100°C



79-1 Magnetic Stirrer

Speed:	0~2400rpm
Motor Engine:	40W
Heating capacity:	300W
Note:	Stainless steel heating tray



JJ-4 Sextuple Synchronous Electric Stirrer

Timing range:	0~120min
Rotational Speed:	0~2200rpm
Speed Digital Display:	Yes
Weight:	32KG
Motor Power:	260W



TS-1 Decolourization Shaker

Frequency:	40 ~ 240r/min
Swing:	convolution 15mm
Speed:	Infinitely variable speeds
Size of working table:	320 x 265mm



TS-2000A Multi-purpose Decolourization Shaker

Frequency:	40 ~ 240r/min.
Swing:	convolution radius 15mm
Speed:	Infinitely variable speed
Timing:	0 ~ 120 minutes
Size of working table:	240 x 200mm



DDS-11A Electrical Conductivity Meter/DDS-11C Digital Conductivity Meter

Material:	DDS-11A	DDS-11C
Measuring range:	0.001~2x10 ⁵ us/cm	0.001~2x10 ⁴ us/cm
Accuracy:	≤1.5%(F.S)	1.5%(F.S)/1 word
Ambient temp:	5 ~ 40° C	
Input voltage:	220 ± 22 VAC/50Hz ± 2%	



HH-S4 Biserial Quadripuntal Constant Temperature Water Bath

Heating Capacity:	1200W
Temp. Controlling range:	RT~100°C
Water temp. fluctuation:	≤0.5°C
Temp. Control Accuracy:	≤1°C
Working chamber size (cm ³):	32 x 32 x 9
Power supply:	220V 50~60HZ



H2050R-1 High Speed Refrigerated Centrifuge

Max. speed:	20500r/min.
Max. RCF:	29200xg
Max capacity:	48 x 15ml 4 x 300ml
Speed Accuracy:	±50r/min
Temp:	-20°C ~ 40°C
Power Supply:	220VAC



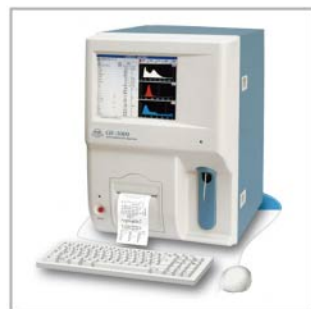
KQ Series Table-type High-frequency Digital Controlled Supersonic Cleaner

Product Model:	KQ-300TDB	KQ-300TDE
Capacity (L):	10	10
Supersonic frequency (KHz):	80	80
Supersonic power (W):	300	300
Water Inlet adjustable (mm):	40~100	40~100
Heating Capacity (W):	600	600



GF-2280 Fully Auto Biochemistry Analyzer

Wavelength:	340/380/405/492/510/546/578/630
Testing speed:	200 samples/hour
Reagent capacity:	3 reagent tray, and 17 different reagents in each tray.
Sample plate:	put 45 samples on it each time.



GF-3000 23 Trisection Fully Auto Hematology Analyzer

Testing parameter:	trisection of WBC, 23 PARAMETERS
Sample dosage:	anticoagulation whole blood of 9.6 ul, anticoagulation distal blood of 9.6 ul, pre-dilution distal blood of 20 ul.
Micro-hole aperture:	WBC:100um, RBC/PLT:80um
Rated of crossed contamination:	WBC, RBC, HGB<0.5%, PLT<1%



PHS-3B Precision pH Meter

Measuring range:	pH: 0-14.00pH/mV: 0 - ± 1999mV Temp.: 0 - 100° C
Basic error of electronic unit:	pH: 0.01pH ± 1 digit/mV: ± 0.1% F.S. Temp.: 0.5° C ± 1 digit
Basic error of the meter:	pH: ± 0.01pH ± 1 digit/mV: ± 0.1% F.S.
Accuracy:	Compound accuracy: ≤ 0.02pH/3pH



PHB-4 Pen Type pH Meter

Measuring range:	pH: 0-14.00pH, mV: 0-± 11700V (auto polarity display) Temp.: 0 - 100° C
Accuracy:	pH: 0.01pH ± 1 digit, mV: ± 0.1% (F.S) ± 1 Digit
Input impedance:	10 ¹² Ω
Zero Drift:	± 0.02pH/2 hours
Solvent Temp Compensation:	0 - 60° C (Manual)



PHS-2C / PHS-3C Precision pH Meter

Product Model:	PHS-2C	PHS-3C
pH range:	pH: 0 - 14.00 mV: 0 - ± 1999mV	pH: 0 - 14.00 mV: 0 - ± 1999mV
Accuracy:	pH: ≤ 0.02pH mV: 0.1%	pH: ≤ 0.01pH mV: 0.1%
Resolving power:	0.01pH: 1mv	0.01pH: 1mv
Range of temp compensation:	0 - 60° c (Manual)	0 - 60° c (Manual)



PHS-25 / PHS-29A Digital Display pH Meter

Product Model:	PHS-25	PHS-29A
Measuring range:	pH: 0 - 14.00pH, mV: 0 - ± 1400mV	pH: 0-14.00 mV: 0 - ± 1999mV
Ambient temp:	0 - +40° C	0 - +40° C
Relative humidity:	50- 85%	50 - 85%
Accuracy:	pH: 0.05pH ± 1 digit, mV: ≤ 0.1% (readings)	pH: 0.05 ± 1 digit bit, mV: ≤ 0.2% (readings)



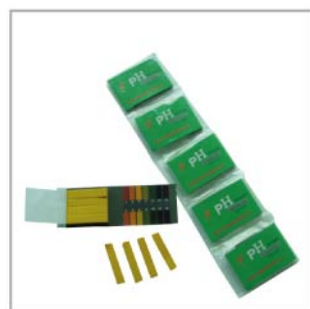
SX-610 pH Meter

Measuring range:	(0 - 14.0) pH
Resolution:	0.1 pH
Temp. Compensation Range:	(0 - 60) °C (automatic)
Auto Calibration:	1 point
Calibration solution:	pH: 7.00
IP Rating:	Dustproof & waterproof



Lens Cleaning Tissue

Specification:	10 x 15cm / book
Packing:	100 sheets / book, 200 books / carton



Indicator Paper

Universal Indicator Paper:	Range: 1.0 - 14.0
Special Indicator Paper:	0.5-5.0, 3.8-5.4, 5.4-7.0, 5.5-9.0, 6.4-8.0, 8.2-10.0
Vulcanized Fiber Paper:	1). Thickness: 0.4/0.5/0.7/0.8/1.0/1.2/1.5mm 2). Width: 1300mm (Max. width: 1550mm)



Mini Digital Refract Meter

Model:	XDRB 0-53
Range:	Brix
Min.Div:	Brix 0-53%
Accuracy:	0.10%
Remark:	± 0.2%



Digital Refract Meter

Model:	DRE-B60	DRE-B95
Range:	0.0 - 60.0%	0.0 - 95.0% 1.3330 - 1.5318
Resolution:	0.1%	0.1% 0.0001
Accuracy:	± 0.2%	± 0.2% ± 0.0003
Type:	BRIX	Refractive Index



SHZ-IIIB TYPE WATER CIRCLE VACUUM PUMPS

Motor power (W):	180
Power supply (V/Hz):	220/50
Main foam flux(L/min):	60
Single electrical (L/min):	10
Ultimate pressure (mpa):	0.098
Pump drum:	2
Cubage of water holder:	11
Material of body:	1Cr18Ni9Ti



VE 125 Vacuum Pump

Frequency:	50Hz	60Hz
Flow Rate:	2.5CFM	3CF
	5Pa/0.05mbar	
Ultimate Vacuum:	5Pa	
	0.05mbar	
Stage:	1	
Power:	1/4HP	
Inlet port:	1/4" Flare	
Oil capacity:	310ml	



Electronic Analytical Balance

Product Model:	FA1104/2104/2104S
Weighing Capacity (g):	110/210/60 x 210
Readability(mg):	0.1/0.1/0.1 x 1
Repeatability(≤mg):	± 0.1/± 0.1/± 0.1 x ± 1
Linearity(≤mg):	± 0.2/± 0.2/± 0.2 x ± 2
Pan Size(mm) :	Φ90



Electronic Precision Balance

Product Model:	JA1003/2003/3003/5003
Weighing Capacity (g) :	100/200/300/500
Readability(g):	0.001
Repeatability(≤g):	± 0.001
Linearity(≤g):	± 0.002
Pan Size (mm):	Φ110



Electronic Balance

Product Model:	1002/2002/3002/4002/5002 2001/6001/12001
Weighing Capacity (g):	100/200/300/400/500 200/600/1200
Readability(g):	0.01 0.1
Repeatability(≤g):	± 0.01 ± 0.1
Linearity(≤g):	± 0.02 ± 0.2



Hand-Held Refract Meter For Brix

Model:	RHB-18	RHB-32
Range:	Brix: 0-18%	Brix: 0-32%
Min.Div:	Brix: 0.1%	Brix: 0.2%
Accuracy:	Brix: ± 0.10%	Brix: ± 0.20%
Remarks:	With / without ATC	



QM Series Planetary Ball Mill

Drive Mode:	gear drive and belt drive
Operation Mode:	two or four grinding tanks working together
Maximum Loading Capacity:	2/3 of the capacity of milling tank
Feeding Granularity:	soil material ≤10mm, other materials ≤3mm
Output Granularity:	Minimum 0.1μm
Rotational speed ratio (revolution: rotation):	1:2 (0.4L,2L,4L) ; 1:1.5(12L,20L)



WGZ-1A Turbidimeter

Measuring principle:	90°scattered light
Measuring range:	0-200NTU
Min. indicating value:	0.1NTU
Fundamental error:	±3%F.S
Repeatability:	≤1.5%F.S
Zero drift:	≤0.2NTU
Power supply:	AC 220C,50HZ,7W



MHCS-3 Tablet Friability Tester

Cylinder number:	2
Cylinder radius:	φ 286mm
Cylinder depth:	39mm
Tablet fall height:	156mm
Rotation count:	10-900r
Rotation count accuracy:	±1r
Rotation speed:	25rpm
Power:	220 OR 110VAC



MHYD-3 Tablet Hardness Tester

Test range:	(2-199.9)N
Test accuracy:	Max. *(± 0.05%)
Probe procession range:	(3-40)mm
Test period:	≥20S/P
Max number in each group:	≤100Piece
Power:	220 OR 110VAC



GY-3 Fruit Sclerometer

Capacity:	0.5-12kg/cm²(x10⁵Pa)	1-24kg/cm²(x10⁵Pa)
Resolution:	0.1kg/cm²	0.2kg/cm²
Pressure Dia:	1# Φ 11.1cm	2# Φ 7.9cm
Accuracy:	± 2%	
Show Model:	Analog	
Pressure depth:	10m	



SH Force Gauge

Model:	SH-100	SH-500
Capacity:	100N	500N
Load Resolution:	0.1N	0.1N
Sensor Conformation:	Sensor Inside	Sensor Inside
Range:	10%-100%FS	
Inaccuracy:	± 0.5%(Inside)	

QM-3B High Speed Vibrating Ball Mill

Maximum feeding capacity:	1/3 of milling tank capacity
Feeding granularity:	<1mm
Discharging granularity:	0.1 μ m minimum
Oscillation frequency:	1,200 rounds/min
Timing range:	0 to 72 hours
Motor:	Single-phase 220V 180W
Current input:	Single-phase 220V 50Hz



101 Series Laboratory Drying Oven

Model:	101-0/101-1/101-2/101-3/101-4
Working Size(mm):	350x350x350/350x450x450 450x550x550/500x600x750/ 800x800x1000
Max. Temp.(°C):	300
Power supply(V):	220

* 101(A) series means "digital display" type;



DGG Series Table-Drying and Air Circulation Oven

Model:	9023A(AD)	9053A(AD)	9123A(AD)	9203A(AD)
Chamber volume:	24.7L	51.4L	105.8L	198L
Main voltage:	220V 50Hz			
Temp. control range:	Ambient Temp. +10°C - 200°C			
Temp. fluctuation:	± 1°C			
Inner chamber size:	300 x 300 x 275	420 x 350 x 350	550 x 350 x 550	600 x 550 x 600
Outside dimension:	580 x 470 x 445	710 x 520 x 520	830 x 530 x 720	880 x 740 x 790
Consumption power:	500W	740W	1240W	1640W
Shelf dimension:	246 x 280	366 x 340	496 x 340	546 x 540
Shelves(supply/most):	2/4	2/7	2/12	2/9

* AD means programmable 10 bands temp. control. *AD means... Control. Unit for size and dimension is "mm"



DNP Series Electric Thermostatic Incubator

Model:	9022	9052	9082	9162	9272
Main Voltage:	220V.50Hz				
Temp. control range:	RT+5-65 °C				
Temp. fluctuation:	± 0.5 °C				
Consumption power:	150W	200W	250W	400W	600W
Inner chamber size (mm):	250 x 250 x 320	350 x 350 x 410	400 x 400 x 500	500 x 500 x 650	600 x 600 x 750



SX Series Electric Resistance Furnace

Model:	SX2-4-10	SX2-6-12	SX2-8-16	SX2-12-16
Work Size(mm):	300x200x120	300x200x120	300x150x120	400x200x160
Max. Temp.(°C):	1000	1200	1600	1600



UQMT30 Mini High-low Temp. Test Chamber

Temp. range:	-40°C~+150°C
Temp. fluctuation:	± 0.5°C
Temp. deviation:	-40°C~+100°C≤2°C; +100°C~+150°C≤3°C
Heating power(W):	1800
Inner Size(mm):	250x300x400
Power supply:	220V, 50Hz
Noise:	60dB



BTS-802E / BTS-805E Total Station

Telescope Length of sleeve:	150mm
Telescope Field of view:	1° 30'
Telescope Accuracy:	2" / 5"
Telescope Minimum reading:	1" / 5"
Range of compensation:	± 3'
Data output interface:	RS232C
Optical plummet Magnification/field of view:	3X / 5°



B40 Automatic Level

Length:	215mm
Objective aperture:	32mm(1.26in.)
Magnification/resolving power:	24X / 4"
Image:	Erect
Resolving Power:	4.0"
Field of View:	1° 25' (2.5m/8.2ft.)
Focusing knob:	1-speed



DL-300 Hand-held Laser Distance Meter

Measuring Range:	0.5m ~ 60m
Resolution:	0.001m
Accuracy:	± 2mm
Laser Type:	0.5sec
Operation temp:	0°C ~ 40°C
Storage temp:	-20°C ~ 60°C



PD-23 Hand-held Laser Distance Meter

Measure Range/accuracy:	40m/ ± 3mm
Least show units:	1mm
Laser level Class:	2
Laser style:	635nm
Laser power:	<1 mw



Alum. Tripod for Auto Level

Max./Min. Expand:	1600/950
Thread:	5/8" OR M16
Head Size:	FLAT
Head Bore:	38



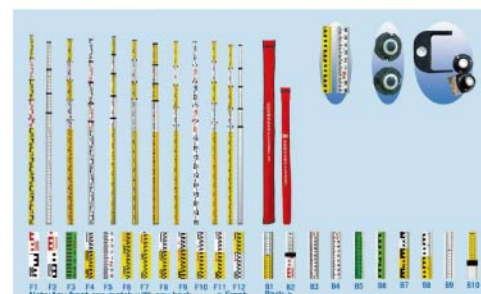
JM-1 Wooden Tripod For Total Station

Max./min. Expand:	1700/1070
Thread:	5/8" OR M16
Head Size:	FLAT
Head Bore:	58



2M Alum. Prism Pole

Max./min.Expand:	2150/1300
Dia:	30
Measurement:	1300 × 170 × 180



Leveling Staff

Length	Section	Graduation	
		Front	Back
3M	3	5mm	8th & 10th/foot
3M	3	E	8th & 10th/foot
3M	3	5mm	E
4M	4	5mm	8th & 10th/foot
4M	4	E	8th & 10th/foot