



BUILDING MATERIAL TESTING EQUIPMENT

Physical Test Solutions (PTS) has a full line of quality building material testing equipment at cost effective prices. The line-up includes the following:

Model LB-10 bitumen mixture mixer

This machine is mainly designed to blend bitumen mixture and mortar mixture, which is widely applied in laboratories of scientific research construction and inspection department in highway line. Its technical performance complies with the standard of JTJ052-2000.

Features

The flexible connection of the mixer and mixing vane guarantees symmetrical mix and avoid changing the blend rate of the aggregate. Electric heating mix pot with internal stainless steel layer Intelligent tracking dynamic temperature control for heating. Reliable and stable performance of the machine

Main specifications

1. Intelligent dynamic temperature control guarantees high accuracy of temperature.
2. Volume of mix pot: 10L
3. Temperature control range for heating: Room temperature -200°C (set arbitrarily)
4. Temperature control accuracy: $\pm 5^{\circ}\text{C}$
5. Mixing time: 1---999 sec (set with this range arbitrarily)
6. Rev of mix vane: 43 rev/min for revolution; 79 rev/min for spin
7. Power supply: 220V, approx. 2.5kW
8. Weight: Approx. 200kG
9. Dimensions (LxWxH): 1150x560x1150mm



Model LC-III Bitumen Automatic Extractor

The machine is used to draw the bitumen in bitumen mixtures adopting methods of high-speed centrifugal separation, solvent reclaim and purification technology to measure the oil-stone ratio of bitumen mixture. This machine complies with the standard of JTJ052-2000.

Features

LCD display, for visual display data and program setting; prompt and simple operation.

A hand knob for adjustment on the panel to make adjustment and maintenance easy

Centrifugal separation system has different speeds with sequence of high-low-high to make collection of fine powder safer. Production and material selection of key parts assures reliability and stability of the machine.

Main specifications

1. Possess two kinds of operation methods: automatic and manual
2. Working modes: bitumen extraction, clean recycling chamber of solvent and recycle of regenerating blend liquid solvent.
3. Working status: status of indicating lamp, LED sync display.
4. LED displays working parameter setting and running parameters.
5. Specimen capacity: 1000g-3000g
6. Extracting accuracy: approx. 0.1%
7. Centrifuge revolution: 5500 rpm, 11000 rpm
8. Centrifuge working modes: high speed-low speed-high-speed
9. Power supply: 380V, 5kW
10. Weight: 300kG
11. Dimension (LxWxH): 1400x800x1600mm



Model AMS-III Bitumen Marshall Stabilimeter

This machine is a kind of special device for highway construction and paving road material test, and suitable for bitumen Marshall test (JTJ052-2000 standard).

Automatic Marshall stabilimeter adopts advanced transducer technology and computer processing technology. After computer processing, the LED displays stability value and flow value directly. The unit provides direct reading of test results and automatic complete test. It is equipped with printer interface to print load-deformation curve.

Main specifications:

1. Max press: 40kN
2. Transducer measuring range of stability: $\geq 30\text{kN}$
3. Overload protection when load exceeds 40kN
4. Measuring error of stability: $\leq \pm 0.02\text{kN}$
5. Vertical deformation measuring range: 0-15mm, measuring error: $\leq \pm 0.05\text{mm}$
6. Elevating speed of press: $50 \pm 5\text{mm/min}$
7. Equipped with SHARP CE-515P printer interface (Printer is optional)
8. Power supply: AC220V $\pm 10\%$, 50Hz
9. Working ambient temp. $-0^{\circ}\text{C} \sim 60^{\circ}\text{C}$
10. Dimension: 600x370x900mm
11. Consumption power: 600W
12. Weight: 80kG



Model MDJ-II Marshall Electric Compactor

Marshall electric compactor is the special equipment for forming specimen, and suitable for the Marshall test standard (JTJ052-2000) of bitumen. The mechanical driving of the equipment and control are two sections, which can boost the reliability of the machine. To order to guarantee the reliability of the equipment when working, all driving parts and hammer are installed in the shield, and there is a safe operating rod to ensure the compacting head not to fall when bringing in or taking out the specimen moulds. The equipment has a relief switch, and when couple safe operating rod or open the shield, the power will be shut off.

Main specifications:

1. Hammer: 4536±9g
2. Hammer fall difference: 457±5mm
3. Compacting speed: 60 times/min±5 times
4. Compacting times can be preset, and preset range is 0-999 times
5. Possess presetting number memory function
6. Possess protection function for operating safety
7. Wooden block compacting base: 457x200x200 mm
8. Cement & concrete base: 200x460x480 mm
9. Power supply: AC 220V±10%, 50Hz
10. Consumption voltage: 370W
11. Dimensions: 1940x540x540mm
12. Weight: Approx. 180kG



Model TAT-II Automatic Rut testing device

The device is produced according to the standard of JTJ052-2000, and mainly used to make the test standard specimen of bitumen under high temperature. The device can communicate with the computer through RS232 serial interface, and the computer can do data processing, monitoring, storage and printing, and displaying the change of rut test curve at real time. The test data are accurate and reliable.

Main specifications:

Wheel diameter: 200mm

Contacting pressure between test wheel and specimen: 0.7 ± 0.05 Mpa

Press speed of the wheel: 42 times \pm 1 time/min

Displacement measuring range and accuracy: 0-40mm \pm 0.01mm

Temperature control range and accuracy of thermostat chamber: room temp--60°C \pm 5°C

Power supply: AC 220V \pm 10%, 50Hz

Consumption voltage: 370W

Alarm function: Driving mechanical trouble alarm

Temperature transducer trouble alarm

Dimensions: 1465x765x1250mm

Weight: Approx. 550kG



Model SST-I Rut Specimen Forming Machine

The device is produced according to the standard of JTJ052-2000, and mainly used to make the test standard specimen of bitumen under high temperature. Setting parameters by control disc; relevant data is processed by microprocessor; LED display.

Main specifications:

Wheel diameter: 500mm

Wheel working superficial temperature setting range: room temp--100°C

Wheel pressure range: 0-12kN

Press speed of the wheel: 12 times/min

Specimen size: 300x300x50 (mm)

Power supply: AC 220V±10%, 50Hz

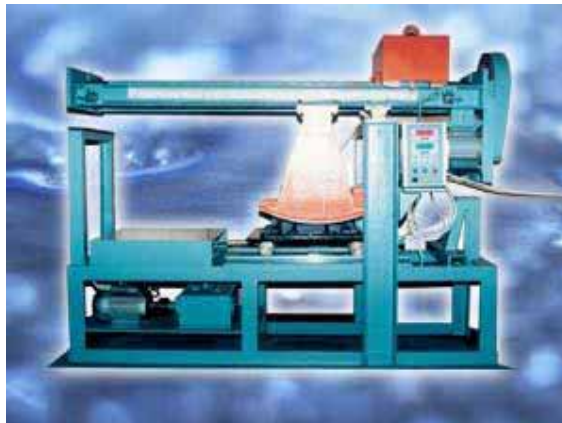
Consumption voltage: 3.5kW

Alarm function: Driving mechanical trouble alarm

Temperature transducer trouble alarm

Dimensions: 1980x670x1600mm

Weight: Approx. 850kG



Model XLPY-F Pavement Flatness Device

The device adopts the advanced micro-processing technology, which enable it to possess the advantages of accurate measurement, scientific evaluation, simple operation and reliable working, so it is widely used to inspect, check & accept and maintain road surface of highway, city pavement, square and airport runway, and it can also offer reliable road surface analysis data to educational, design and research units.

Main specifications:

1. Measure, calculate and print automatically R.M.S. error; Sampling space distance 0.1mm; Sampling error ≤ 1 mm; Repeating General deviation < 0.2 mm under the same condition.
2. Print automatically the measuring date (Year, month and date)
3. Calculate and print automatically single-direction accumulated value (mm) of measured pavement
4. Calculate and print automatically diagram area between section curve and datum line of measured pavement
5. Calculate and print automatically the length of measured pavement (m), error $< 1\%$
6. Inspecting speed 12k/h, Max. is 15km/h
7. Drawn by manual or vehicle, and Min turning radius 5m
8. Working condition: $-10^{\circ}\text{C}\sim 40^{\circ}\text{C}$



Model RH-2 Resolvent Reclaimer

RH-2 Resolvent Reclaimer adopts distillation method to reclaim trichlene in bitumen trichlene blending liquid to reutilize and also decrease its pollution to circumstance.

The device has microprocessor to deal with relevant data, which can make it easy to parameter setting, running status and data display.

Main Specifications:

1. Reclaiming chamber volume: Approx. 32 Liter
2. Resolvent chamber volume: Approx. 35 Liter
3. Reclaiming blend liquid per time: Approx. 12 Liter
4. Temperature control range: Room temperature --- 120°C (setting arbitrarily)
5. Reclaiming time: 45 minutes
6. Cool water temperature $\leq 12^{\circ}\text{C}$ pressure ≤ 2 bar
7. Working environmental temperature $\leq 40^{\circ}\text{C}$; Relative humidity $< 80\%$
8. Power supply: 220V, 2kW
9. Weight: 60kG
10. Dimension: 870x750x1050mm



Soil Testing Equipment

TSZ30°C2.0 Table Tri-axial Instrument

The instrument is used to determinate the strength of soil sample of axial load and out of shape such as shearing of that no push water out, no consolidation(DU), consolidation and no push water out (CU) and consolidation and push water out.

TSZ10 °C 1.0 Light-duty Table Tri-axial Instrument

The instrument is used for general purpose of soil engineering test chamber and educational use. Maximum pressure: 1.00Mpa. Diameter of sample soil: 39.1mm. The other functions are the same with TSZ30°C2.0



Series WG Single-level Consolidometer

It is used in soil compression test. Determinate the relationship between the soil and compression and calculate unit soil sedimentation, compressive index, resilience index as well as consolidated coefficient.



GZQ“C1 Full-Automatic Gas Pressure Consolidometer

It is used to determinate performance of soil compression under the different load and side limit. It consists of consolidometer, gas pressure controller and multi-channel communication converter.



Series ZJ Strain Control Shear Instrument

It is used to determinate shearing strength under the different vertical pressure and horizontal shearing force to achieve shearing stress when the soil damaged.



ZZY'C3 Direct shearing pre-pressure instrument

It is special pressure instrument used in putting pressure on the soil to make the soil push water out and consolidation.



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