BEVS 1306U
Intelligent Pendulum Hardness Tester

Introduction

Intelligent Pendulum Hardness Tester employs advanced fully automatic control technology to measure hardness through the damping of a pendulum oscillating on the coating surface. The softer the surface, the faster the amplitude decays; the harder the surface, the slower the decay. Results are typically expressed in pendulum damping time (seconds) or number of oscillations. It is especially suitable for measuring the hardness of automotive coatings and is widely used in the coatings, paints, automotive, and chemical industries.

- 4″ touch screen with dual operation (voice + touch)
- One-touch operation with fully automatic control
- Automatic leveling recognition
- Real-time display of ambient temperature and humidity
- Automatic opening and closing of the acrylic door cover
- Automatic pendulum type recognition
- Automatic pendulum release and actuation
- Vibration alert function

Specifications

- Sample Dimensions:
  L(70–200)mm × W(80–100)mm × H(1.5–10)mm
- Pendulum Types: König and Persoz
- USB Data Output

Ordering Information

BEVS 1306U Intelligent Pendulum Hardness Tester
(Konig and Persoz)

BEVS 2205U
Multifunction Coating Performance Tester

Introduction

Multifunction Coating Performance Tester, developed in-house, is an intelligent instrument that combines cross-cut, X-cut, scratch, pencil hardness, and linear abrasion tests in a single device. Equipped with advanced voice and touch dual-control technology, it accurately evaluates coating performance, including scratch resistance, adhesion, surface hardness, and linear wear, to meet a wide range of testing needs.

- 7″ touch screen with voice and touch dual operation
- Multi-functional design with five testing modes
- Fully automatic sample clamping platform
- Automatic platform rotation and movement
- Automatic load range adjustment
- Automatic data recording and saving
- Generation of test reports

Specifications

- Sample Panel Dimensions:
  L(150–200) × W(50–100) × H(0.2–20)mm
- Spacing: Adjustable 1–5 mm
- Angle: 0–90°
- Standard Load Range: 5–50 N
- Special Load Range (Optional): 1–10 N
- Speed: 2–20 mm/s
- Maximum Stroke Length: 100mm
- Scratch Stylus Diameters: Ø 0.5, 1.0, 2.0 mm
- Pencil Hardness: 9B–9H

Ordering Information

BEVS 2205U Multifunction Coating Performance Tester

BEVS 3390
Intelligent Xenon Test Chamber

Introduction

BEVS 3390 Intelligent Xenon Test Chamber utilizes high-efficiency air-cooling technology. Xenon arc lamps simulate full-spectrum solar radiation, while precisely controlling environmental conditions such as temperature, humidity, and water spray. It offers an efficient solution for accelerated artificial aging tests, and is widely used in coatings, plastics, rubber, textiles, automotive materials, and photovoltaic modules.

- 15″ touch screen with Chinese and English user interface
- Advanced air-cooled xenon lamps for excellent solar simulation
- Intelligent xenon lamp control system for precise test conditions
- Real-time display of operating parameters and test progress
- Automatic control of light irradiance
- Automatic control of black panel / black standard temperature
- Automatic control of chamber air temperature
- Automatic control of spray and humidity
- Remote operation capability
- Test data output

Specifications

- Air-Cooled Xenon Lamp: 1 × 2200 W
- Exposure Area: 2200 cm²
- Standard Sample Panel: 20 pieces (150 × 70 mm each)
- Irradiance Wavelengths: 300–400 nm / 340 nm / 420 nm
- Relative Humidity:
  During light exposure: 15–75%, ±5%
  During dark periods: 10–100%, ±3%

Ordering Information

BEVS 3390 Intelligent Xenon Test Chamber

BEVS 3610
Intelligent Multifunctional Salt Spray Tester

Introduction

Intelligent Multifunctional Salt Spray Tester is a high-performance corrosion testing device. It integrates salt spray, temperature and humidity control, and water spray functions.
Featuring an intelligent fully automatic control system, the chamber and cover are made of premium fiberglass, offering excellent corrosion resistance. It performs conventional tests such as continuous salt spray, humidity, and drying, and also meets automotive cyclic corrosion testing standards.

- 10″ programmable touch-screen interface
- One-piece molded fiberglass chamber
- Automatic temperature and humidity control
- Automatic spray and mist removal
- Pre-set and store up to 20 test programs
- Record operation modes and test data by batch or group
- Real-time display of operating parameters and test progress
- Remote control function
- Power-off memory function
- Self-diagnosis and fault alarm function

Specifications

- Chamber Capacity: 1200 L
- Maximum Sample Dimensions:
  L 1000 × W 450 × H 500 mm
- Salt Spray Deposition Rate: 0.5–4.0 mL/h/80 cm²
- Chamber Temperature: Ambient to 65°C, ±2°C
- Chamber Humidity: 20–95%, ±5%
- Shelves: Two-tier design with 16 racks or hanging rods

Ordering Information

BEVS 3610 Intelligent Multifunctional
Salt Spray Tester

AI EMPOWERMENT INNOVATING THE FUTURE

BEVS Intelligent Laboratory Testing Solution

BEVS

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BEVS Social Media

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BEVS 1860
Slot Die Coater

Introduction

BEVS Slot Die Coater features a modular design, integrating a precision coating head, automatic coating platform, feeding system, and intelligent control unit. The high-precision coating head ensures uniform extrusion and deposition of fluid materials onto various substrates — such as metal foils, films, and glass — delivering thin films with highly consistent and controllable thickness. Ideal for applications in thin-film solar cells, lithium-ion batteries, and optical films.

- 4.3" PLC Touch Screen — fast, responsive control
- Switchable Glass & Aluminum Tables — ultra-flat surface
- Vacuum Aluminum Platform — ensures
- perfectly uniform coating
  Precision Adjustable Coating Head — stable & consistent fluid output
- Automated Syringe Pump — smooth, controlled flow
- High & Low-Speed Coating — stable and reliable motion
- 5-Zone Vacuum System — quick switching for fast testing
- Modular Design — adaptable to diverse applications

Specifications

- Feeding Capacity: 30 / 60 / 100 ml
- Feeding Rate: 0.05 – 5 ml/s
- Effective Coating Width: 100 / 150 / 200 / 250 mm
- Accuracy: ±2 μm
- Film Thickness: 0 – 3500 μm
- Viscosity Range: 1 – 1000 cP
- Shim Thickness: 0.02 – 0.10 mm

Ordering Information

BEVS 1860 Slot Die Coater

BEVS 1139
DI Viscometer

Introduction

DI Viscometer measures viscosity by detecting the viscous resistance encountered by a spindle rotating in a liquid. By using different spindles, it can meet various measurement requirements. Equipped with high-pre -cision sensors and advanced data processing technolo-gy, it offers digital and intelligent performance. Widely used in quality control and research across industries such as coatings, inks, food, cosmetics, and adhesives.

- 4" touch screen with responsive control
- Support multiple languages: Chinese, English, German, Japanese, and Russian
- Automatic zero calibration and level detection
- Viscosity units: cP, mPa·s, P, Pa·s
- Customizable users and user groups
- Up to 10 user-defined measurement programs
- Automatic alarm when torque exceeds range
- Timed measurement function

Specifications

- Spindles: 4
- Measuring Range: 1 - 2,000,000 cP
- Sample Volume: 500 mL
- Speed Range: 0.3 - 100 RPM
- Accuracy: ±1% of full scale
- Repeatability: ±0.2% of full scale
- Data Storage: Up to 1,000 measurement results
- Data Output: USB data export

Ordering Information

BEVS 1139 DI Viscometer

BEVS 1133U
KU Viscometer

Introduction

KU Viscometer features easy operation, intuitive readings, and excellent stability. With a unique design, it accurately reflects the consistency and flow properties of fluids, making it ideal for rapid viscosity measuring in industries such as coatings, inks, and paints. It is widely used in production sites and laboratories for quality operation applications.

- 4″ touch screen with dual operation (voice + touch)
- Support multiple languages: Chinese, English, German, Japanese, and Russian
- Viscosity units: KU, g, cP
- Real-time display of viscosity–time curve during measurement
- Real-time display of ambient temperature
- Customizable users and user groups
- Up to 10 user-defined measurement programs
- Automatic alarm when torque exceeds range
- Sample temperature measurement capability
- IoT-enabled for remote control and real-time data monitoring

Specifications

- Measuring Range: 40–141 KU, 32–1099 g, 27–5274 cP
- Resolution: 0.1 KU, 1 g, 5 cP
- Rotational Speed: 200 RPM
- Accuracy: ±1% of full scale
- Repeatability: ±0.5% of full scale
- Data Storage: Up to 1,000 measurement results
- USB Data Output

Ordering Information

BEVS 1133U KU Viscometer

BEVS 1812
AI Minimum Film Forming Temperature Master

Introduction

AI Minimum Film Forming Temperature Master utilizes visual positioning technology to determine the lowest temperature at which a material coated on the platform forms a uniform film, with real-time display of the film-forming temperature. It is primarily used to evaluate the film-forming performance of polymer emulsions and is widely applied in industries such as coatings, emulsions, adhesives, and synthetic fibers.

- 7" large touch screen with dual control (voice + touch)
- 6 testing channels for high testing efficiency
- 16 high-precision sensors for real-time display of gradient plate temperature
- Intelligent temperature control system for fast and stable heating and cooling
- Visual positioning technology for automatic determination of film-forming location
- Automatic reading algorithm to display the minimum film-forming temperature
- Infrared laser positioning to minimize human error
- Automatic saving of experiment photos and data
- Generation of test reports

Specifications

- Temperature Range: -10℃ to 65℃, ±0.1℃
- Number of Samples: 6
- Sample Width: 16 mm
- Light Movement Range: 0–300 mm
- Accuracy: Repeatability ±2℃ , Reproducibility ±4℃
- Imaging System Resolution: 5472 × 3768 pixels

Ordering Information

BEVS 1812 AI Minimum Film Forming Temperature Master