

Global Network



BEVS Industrial(Guangzhou) Co, Ltd.

Headquarter

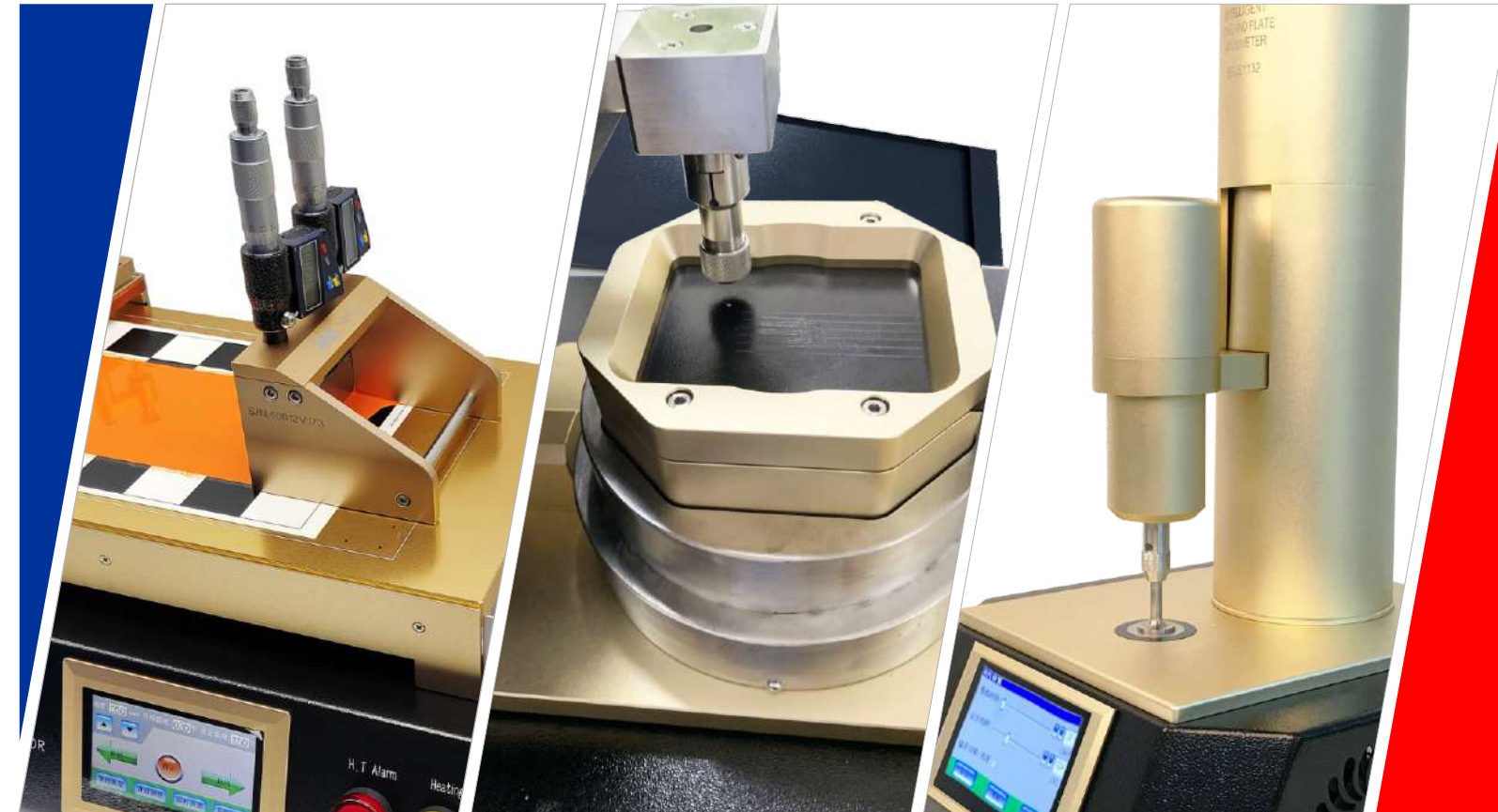
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Intelligent Testing Instruments For Paint Industry Chain

Intelligent | Automatic | IoT



Website



V202402

www.bevsinfo.com

Dispersion

Intelligent Mixer
750W,500~12000rpm,300mm
Vessel:1.5/3.5/10 L
Auto

Laboratory Mixer
550W,30~9000rpm,210mm
Vessel:1.5/3 L
Manual

Laboratory Mixer
550W,30~9000rpm,250mm
Vessel:0.5/1.5 L
Manual

Laboratory Mixer
750W,60~6000rpm,280mm
Vessel:0.5/1.5 L
Manual

Laboratory Mixer
1.1KW, 60~5500rpm,330mm
Vessel:3.5/10 L
Auto

Laboratory Mixer
1.5KW,60~6000rpm,400mm
Vessel:5/10/20 L
Auto

Density / Grinding

Automated Particle Analyzer
Automatically analyze particle distribution and fineness results;
Automatic drawdown, built-in high-definition scanning camera
Measurement range: 0-200 μm , accuracy: $\pm 5\%$.

Automatic Drawdown Master
With light source, compatible with scrapers and film applicators/Load, stroke, and speed can be adjusted

Pressure Density Cup
Volume: 100ml
Test pressure: 10bar
Made of stainless steel

Specific Gravity Cup
Volume: 50/100/83.3 ml
Accuracy: $\pm 0.2\%$ (15°C~25°C)

Scraper
Size: 90×40×6 mm
Material: stainless steel

Grind Gauge

Single Channel
Range: 10/15/25/50/100 μm
Division: 1/1.5/2.5/5/10 μm
Size: 175×65×13 mm

Double Channel
Range: 15/25/50/100 μm
Division: 1.5/2.5/5/10 μm
Size: 175×65×13 mm

Triple Channel
Range: 25/50/100 μm
Division: 2.5/5/10 μm
Size: 175×85×13 mm

Wide Single Channel
Range: 25/50/100 μm
Division: 2.5/5/10 μm
Size: 175×65×13 mm

Application of Film

Mini Automatic Film Applicator
Speed: 1~200mm/s
Stroke length: 0~250mm
Coating size: 320×220mm

Mini Automatic Film Applicator
Speed: 1~200mm/s
Stroke length: 0~250mm
Coating size: 320×220mm

Mini Automatic Film Applicator
Temp.: Ambient+5°C~+150°C
Coating size: 320×220mm
Speed: 1~200mm/s
Stroke length: 0~250mm

Automatic Film Applicator
Speed: 1~350mm/s
Stroke length: 0~455mm
Coating size: 455×300mm

Automatic Film Applicator
Speed: 10~140 / 50~300 mm/s
Stroke length: 0~380mm
Coating size: 420×300mm

Automatic Film Applicator
Speed: 10~140 / 50~300 mm/s
Stroke length: 0~380mm
Coating size: 420×300mm

Automatic Film Applicator
Speed: 10~140 / 50~300 mm/s
Temp.: Ambient~150°C / Ambient~200°C
Coating size: 420×300mm

Automatic Panel Spray Station
Spray panel: MAX 150×150mm
Speed:
X: 10~600mm/s, Y: 10~100mm/s

EXP Automatic Panel Spray Station
Spray panel: MAX 500×250mm
Speed:
X: 10~600mm/s, Y: 10~100mm/s

Automatic Panel Sprayer
Spray panel: MAX 450×300mm
X: 50~300mm/s, Y: 1~30mm/s,
Z: 50~300mm/s,

EXP Automatic Panel Sprayer
Spray panel: MAX 300×300mm
X: 20~500mm/s, Z: 10~200mm/s
EXP level: Ex d IIB T4 Gb

Automatic Panel Spray Station
Adopting intelligent programming spraying technology, dual axis automatic spraying, with no cleaning design;
Sample movement speed: X-axis 10~600mm/s, Y-axis 10~100mm/s;
Spray panel: MAX 500×200mm, or 6 standard panels 150×100mm

Application of Film

BEVS 1830

BEVS1806A with baffle
BEVS1806B without baffle

Adjustable Applicator
Range: 0~3500µm, accuracy: 10µm;
Film width: 50/100/150/200/250/300 mm

BEVS1806E with baffle
BEVS1806F without baffle

Digital Adjustable Applicator
Range: 0~3500µm, accuracy: 1µm;
Film width: 50/100/150/200/250/300 mm

BEVS 200
BEVS 320

Bar coater
Film width: 200 / 320mm
Thickness: 4,6,8,10,12,15,20,25,30,40,50, 60,70,80,100,120,150,200µm

BEVS 200/S

Bar coater handle
For BEVS 200

Highlight

Film Application Kit

Used for on-site film making and performance testing;
Including 22 products for viscosity, adhesion, fineness etc;
Portable kit for users;

BEVS 1801/50
BEVS 1801/70

Single Sided Applicator
Film width: 50 / 75mm
Thickness: 50,75,100,125,150,200µm

BEVS 1802

Two Sided Applicator
Film width: 80mm
Thickness: 25/50, 75/100, 150/200, 300/400 µm

BEVS 1808/50
BEVS 1808/75

Single Sided Applicator
Film width: 50 / 70mm
Thickness: 50, 100 µm

BEVS 1803/60
BEVS 1803/80

Four Sided Applicator
Film width: 60 / 80mm
Thickness: 30/60/90/120,50/100/150/200, 300/400/500/600,5/10/15/20,25/50/75/100µm

BEVS 1817

Eight Sided Applicator
Film width: 60mm
Thickness: 25/50/75/100/125/150/ 175/200µm

BEVS 1805

Cube Applicator
Film width: 16 / 41mm
Thickness: 37/75,50/100 µm

BEVS 1819

Four Sided Applicator With Reservoir
Film width: 60 / 80mm
Thickness: 30/60/90/120 , 50/100 /150/200 µm

BEVS 1807

Rhombus Four Sided Applicator
Film width: 80mm
Thickness: 30/60/90/120 µm

BEVS 1809

Sagging Applicator
Division: 25µm
Film width: 6mm, groove gap: 1.5mm
Range: 50~1000 µm

BEVS 1810

Levelling Applicator
Range: 100-200-300-500-1000 µm
250-500-1000-2000-4000 µm

BEVS 1122

Payne Permeability Cup
Material: aluminium alloy
Exposed area: 10 / 25cm²

BEVS 2902/05
BEVS 2902/13

Hiding Power Chart
Size: 250X180mm
Packing: 500pcs/box

Viscosity

BEVS 1135
BEVS 1136

Online Krebs Viscometer
Easy operation
Units: KU, g, cP
Range: 27~5274cP

BEVS 1131

Intelligent Rotothinner
Auto up/down
Units: cP
Range: 0.1~36000cP

BEVS 1133

Intelligent Krebs Viscometer
Manual
Units: KU, g, cP
Range: 27~5274cP

BEVS 1112U

Intelligent Krebs Viscometer
Auto up/down
Units: KU, g, cP
Range: 27~5274cP

BEVS 1118

Afnor Cup

BEVS 1106

ISO Cup

BEVS 1101

Ford Cup

BEVS 1102

Cup Stand

BEVS 1107

Zahn Cup

BEVS NK-2

Iwata Cup

BEVS 1109

Frikmar Cup

BEVS 1108

DIN Cup

Highlight

Intelligent Cone and Plate Viscometer

Using high-precision DC motors;
Real time display of shear rate, curve;
Viscosity range: 0.1~10000cp,
Temperature range: 5~75 °C;
Speed: 100-1500rpm, shear rate: 333-20000s⁻¹.

Thickness

BEVS 1701/1
BEVS 1701/2
BEVS 1706

Wet Film Gauge
1701/1 range: 20~350µm
1701/2 range: 25~2700µm
1706 range: 10~100µm

BEVS 1701/3

Wet Film Gauge(Aluminum)
Range: 25~2000µm

BEVS 1702

Wet Film Thickness Wheel
Range: 25/50/100/200/300/500/1000µm

BEVS 1707

Paint Inspection Gauge
Range: 45°: 20~1800µm
63.4°: 10~900µm
84.3°: 2~180µm

Curing / Drying

BEVS 1812

BEVS 1813
BEVS 1813S

BEVS 1815



Minimum Film Forming Temperature Master

Test products: paint, coating, resin, lotion;
Intelligent control of gradient temperature
Temperature range: -10 °C~ +65 °C



Drying Time Recorder
Track: 6 (3 set)
Auto reset
Auto reading result



Drying Time Recorder
Track: 10 (5 set)
Manual reset
Read result via ruler



Oven Loggermaster
Probe: 6/12
Temp. range: 0~1300°C
Accuracy: ±0.3°C



Insulation box
Duration: 100°C@25min, 200°C@200min,
250°C@60min, 300°C@65min,
500°C@60min, 800°C@50min

Adhesion

BEVS 2205

BEVS 2201

BEVS 2201ATV



Multifunction Coating Performance Tester

Functions: scratch, cross cut, pencil hardness, linear abrasion;
Fully automatic operation
Testing parameters are adjustable



Automatic Pull Off Adhesion Tester
Units: MPa, psi, N
Range: 0.4~200MPa
Dolly dis.: 7, 10, 14, 20, 50 mm



Adhesion Tester Verifier
Real time reading
Range: 0~100Mpa



Automatic Cross Cutting Tester
Load: 1~40N
Cut angle: 0~90°
Cut lines: 1~11



Automatic Bond Strength Tester
Unit: MPa, psi
Speed: 0.2~0.4Mpa/s
For building industry

Hardness

BEVS 1301

BEVS 1309

BEVS 1306



Pencil Hardness Tester
Tip load: 500/750/1000 g
Angle: 45°
With pencil set (6B~6H)



Electric Pencil Hardness Tester
Auto run
Load: 500~1000g
Speed: 0.5~5.5mm/s



Highlight
Intelligent Pendulum Hardness Tester
Fully automatic control
Compatible with K-pendulum and P-pendulum;
Real time monitoring



Buchholz Indentation Tester
With locator and HD microscope
Load: 500 ± 5 g
Magnification: 20x



Pencil Hardness Test Platform
For: BEVS 1301, BEVS1309
Panel thickness: 0-5mm
Panel length: 50~150mm

Gloss / Color

BEVS 1506

BEVS 1503: 20°, 60°, 85°
BEVS 1503/1: 20°
BEVS 1503/2: 60°
BEVS 1503/3: 85°

BEVS 1501U



Bench Glossmeter
Measurement angle: 60°
Measurement range: 0-2000GU
Measurement area: 2X2mm



Intelligent Glossmeter
Measurement angles: 20°, 60°, 85°
Measurement range: 0-2000GU



60° Glossmeter
Measurement angle: 60°
Measurement range: 0~1000GU

BEVS 2202

BEVS 2206

BEVS 2203

BEVS 2203C



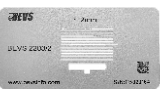
Cross Hatch Cutter
Cutting edge: 8
Spacing: 1/1.5/2/3 mm



Cross Hatch Basic Cutter
Cutting edge: 1
Angle: ±8°
Spacing: 1/1.5/2/3 mm



Multi-hatch Gauge
Applicable for testing: cross cut,
wet film thickness,
Sharp corner edge roughness



Hatch Gauge
Suitable for testing: cross cut
With a T-shaped positioning window



Color Assessment Cabinet
Light source: Five light sources
Light source types: D65, TL84, CWF, F, UV

BEVS 1201/6



Color Assessment Cabinet
Light source: Six light sources
Light source types: D65, TL84, CWF, F, UV, U30



Highlight
Non Contact Automatic Color Measurement Machine
Non contact design reduces collisions and scratches
Can quickly detect multiple samples at once
Accuracy: Δ E * ab < 0.2, single detection time: 0.2S.

Deformation

Automatic Cylindrical Bend Tester
Bending times: 1~99999 times
Speed: 10~60rpm
Sample thickness: 0.3-1mm

Automatic Cupping Tester
Camera system
Maximum force: 15KN

Cylindrical Mandrel Bend Tester
Sample width: MAX 70/100mm

Conical Mandrel Bend Tester
Maximum sample size: 200X100mm
Application: Flexibility testing

Impact Tester
Weight of indenter: 8.9N (2 pounds)/17.8N (4 pounds)
Tube height: 63.6cm/10.1.7cm
Compliant with standards: ASTM D2794, BS 6496

Impact Tester
Weight of indenter: 1kg
Tube height: 100cm
Compliant with standards: ISO6272, BS3900, DIN55669

Impact Tester
Weight of indenter: 1kg
Tube height: 50cm/100cm
Compliant with standard: GB/T 1732

Abrasion, Scrub / Washability

Multifunction Abraser
Replace the fixture head and sample platform for compatibility testing with different standards;
Adjustable stroke and speed;
Suitable for testing coatings, plastics, decorative fabrics, automotive interiors, and velvet fabrics.

Complex Scratch Tester
Shape and radius of the needle (mm):
(Sharp) 0.03, (Ball) 0.25, (Ball) 0.5
Sample size: MAX 200 x 100 x 12mm

Scratch Tester
Sample size: 100 x 150mm
Sample thickness: MAX 1.6mm
Test coating thickness: 0.3mm

Linear Abraser
Speed: 20-99 spm
Sample height: MAX 14.5cm

Automatic Scratch Tester Plus
Stroke length: 40-120mm
Speed: 1-50mm/s
Spacing: 5-10mm

Coin Scratch Tester
Pressure on coin (without weight): 1000g
Pressure on coin (without weight): 1500g
Size: 112X81X95mm

Automatic Heating Abrasion Tester
Temperature range: room temperature~300 °C
Test stroke: 30/60/90mm
Speed: 20-190 spm

Vertical Wet Abrasion Scrub Tester
Number of rolling brushes: 1-4
Speed: 0-200 spm, forward / reverse rotation
Sample size: 200X150mm

Weathering Testing

Multifunction UV Weather Tester
Total power: 2kw
Light source: UVA-340 / UVB-313
Lamp No.: 40W x 8
Rated life of lamp: 2000h

Intelligent Multifunctional Salt Spray Tester
Chamber capacity: 800L
Heating via Titanium tube heater
Humidity range: 20%~95%, accuracy $\pm 5\%$
Temperature range: Ambient to $65 \pm 2^\circ\text{C}$
Test panel bracket: Two layers, 12 positions in total

Multifunction Aging Chamber
Xenon lamp aging tester and salt spray tester in one
Lamp power: 6.5kw
Lamp shape: Long arc
Lamp cooling: deionized water
Lamp life: 3000~4000h

Intelligent Xenon Aging Tester
Xenon lamp: 6.5kw
Lamp shape: Long arc
Cooling: deionized water
Lamp life: 3000~4000h

Abrasion, Scrub / Washability

Wet Abrasion Scrub Tester
Channel: 1-2
Running speed: 10-40 spm
Control module: 1 driver

Wet Abrasion Scrub Tester
Channel: 1-4
Speed: 1-65 spm
Control module: 2 drivers, independent/
simultaneous running

Detergent Washability Tester
Speed: 37 ± 1 spm
Four slots can be flipped 180 degrees
Application: washability

Brush
Standards: ASTM D2486,
D3450, D5213; DIN53778;
GB/T9755, GB/T9756, GB/T9780.

Intelligent Station



Full Automatic Adhesion Station BEVS 3233

- Features**
- Compatible with multiple cutting methods
 - Fully automatic cutting and evaluate results
 - Data saving and output reports
 - Shorten R and D, experiment and quality control cycles

- Technical info.**
- Test panel size: L (120~150) × W (50-100) × H (0-7)mm
 - System pressure: 0.5~0.7Mpa
 - Storage capacity of test panels: 50-300 pieces (based on the thickness)
 - Cutting spacing: 0.5, 1, 1.5, 2, 3mm
 - Cutting length: 50-80 mm

Intelligent Coating Performance Testing Station BEVS 3288N

- The industry's first image detection coating defect system;
- Automatic loading and unloading, automatic storage of wire bars and test panels;
- Fully automated coating performance testing;
- Support customization of multiple testing items.



Intelligent Testing And Inspection System



The BEVS System is a comprehensive experimental platform based on web technology and mature LIMS, with BEVS intelligent stations as the core. It is suitable for both research and service-oriented business organizations, as well as applications in process industry, quality assurance, quality control, and job organization.

This system consists of five stations: intelligent raw material storage workstation, intelligent formula preparation workstation, intelligent film making workstation, intelligent drying workstation, and intelligent performance testing workstation, with high integration and scalability. A single workstation can work independently and complete one or more experimental projects. Multiple workstations can be quickly combined and assembled to complete more intelligent and automated laboratory testing.

This system realizes intelligent and automated sampling and testing of various properties of related products such as coatings, inks, resins, etc. It is fully automated from raw material input to product output, improving detection efficiency by more than 100%, greatly reducing manual operations and differences, and improving repeatability and reliability.

BEVS 3230



Intelligent Coating Formulation Station

- Adopting a mobile workstation system design, remote control, and real-time monitoring;
- Can be automatically completed according to needs: precise distribution of materials, online mixing and stirring
- Online pH blending and viscosity control, without the need for manual intervention throughout the entire process;
- Formula preparation can be automatically performed multiple times by setting the amount of formula change;
- Support automatic output of experimental reports.

BEVS 3226



Intelligent Panel Coating Station

- Automatic loading and unloading, automatic storage of test plates, fully automatic control of dual axis (X, Y) movement;
- Support one click calling of custom spraying mode, displaying current experimental parameters in real-time;
- Real time monitoring of humidity, temperature, and VOC gas concentration in the internal environment;
- Compatible with multiple coatings, can quickly replace 10 different coatings;

BEVS 3228N



Intelligent Robotic Coating Station

- Adopting the latest facial recognition technology, real-time encrypted data transmission;
- Automatic loading and unloading, automatic storage of wire rods and test plates;
- Robot automatic coating, with higher consistency and stability;
- Multiple film making modes are available, with 5 substrates automatically coated in one continuous process;
- Compatible with 10 different specifications of wire rods and 10 different coatings;

