

Automated Particle Analyzer

BEVS 3168H



Introduction

BEVS 3168H Automated Particle Analyzer is suitable for measuring the particle fineness of various materials such as coatings, pigments, and even coatings with special effects, such as transparent liquid materials and metallic paints. One-key measurement technology can automatically scrape the fineness plate and automatically analyze the fineness measurement results. The powerful measurement and analysis software can greatly improve the accuracy and efficiency of the measurement. It is widely used in coatings, resins, pigments, polymers, titanium dioxide, cosmetics, pharmaceuticals, food, electronic materials, chip materials and other fields.

Working Principles

The Automated Particle Analyzer mainly adopts visual imaging artificial intelligence big data technology. Its working principle is: the Grind Gauge is scanned by a high-resolution camera. The camera and the plane of the Grind Gauge keep a fixed angle and move horizontally. The measuring light is irradiated on the Grind Gauge of the coated sample. There is a difference between the reflected light of the smooth surface and the reflected light of the rough surface. Therefore, the undispersed coating particles collected by the camera are displayed as a light spot. The camera is focused on the entire line in the width direction of the Grind Gauge. By moving horizontally, the entire image is scanned and collected within three seconds. Through data processing and algorithm analysis, the particle size distribution bar graph and particle number of the granular material are obtained, thereby obtaining the fineness rating result. Any abnormal points in the image analysis during the period, such as bubbles or dust, will be ignored, thereby improving the measurement stability.

Features	<ol style="list-style-type: none"> 1. 10 inch HD touch screen, advanced intelligent analysis software; 2. HD image processing system for high-precision measurement; 3. Test chamber with sliding cover, simple and easy to operate; 4. Cycle measurement time: 30s
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Main Functions	<ol style="list-style-type: none"> 1. Multi-language operation menu optional 2. Automatic scraping, automatic analysis of fineness value 3. Intuitive display of particle distribution and test results 4. Can measure transparent liquid materials and metallic paint 5. 200GB large storage capacity 6. Support three different interfaces
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Technical Parameters	<ol style="list-style-type: none"> 1. Measurement range: 0~200μm 2. Resolution: 1μm 3. Accuracy: $\pm(\text{readings} \times 2\% + 3)\mu\text{m}$ 4. Cycle measurement time: 30s 5. Camera resolution: 4K 6. Display screen: 10", Resolution 1920*1080 7. Interface: USB / VGA / HDMI 8. Storage: 200G (Expandable)
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Equipment Specifications	<ol style="list-style-type: none"> 1. Dimension: L670xW330xH360 mm 2. Power supply: AC 220V, 50/60 HZ 3. Weight: 35kg
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Basic Configuration	<p>Automated Particle Analyzer</p> <p>Mouse + Keyboard Kit</p>
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Standard	ISO1524	Paints, varnishes and printing inks
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Ordering Info

BEVS 3168H	Automated Particle Analyzer	
BEVS 1903	Single Channel Grind Gauge	Measurement Range: 10/15/25/50/100 μ m
BEVS 1906	Wide Single Channel Grind Gauge	Measurement Range: 15/25/50/100 μ m
BEVS 1908	Double Channel Grind Gauge	Measurement Range: 25/50/100 μ m