

SED-16SJ Automatic High-Precision 16-Lane Visual Counter Pill Counting Machine



The 16-Channel Vision Counting Machine represents the next generation of pharmaceutical packaging technology. Unlike traditional infrared counters, this machine utilizes High-Speed Industrial Camera Dynamic Scanning and AI-driven image analysis.

It is specifically engineered to solve the challenges of counting irregular shapes, transparent softgels, and broken pieces. With its advanced "Area Detection" technology, it guarantees an industry-leading accuracy rate of ± 1 per 10,000, even in high-dust environments.

Trait of Capsule Counting Machine

1) Intelligent Detection and Reject System

The machine automatically detects and rejects defective bottles containing over-counted or under-counted items, overlapping tablets, and products with a damage rate exceeding 20%, ensuring a high qualification rate of finished products.

2) Three-Stage Vibration Feeding with Dust Removal

Equipped with a three-level stepped vibration track, materials are gradually separated layer by layer, effectively preventing product overlapping. A built-in three-stage dust extraction system ensures that products are clean and dust-free before filling.

3) Vision-Assisted Illumination Technology

The industrial camera features automatic auxiliary lighting, and the lens is positioned approximately 300 mm away from the product discharge area, completely eliminating counting errors caused by dust interference that commonly affects traditional electronic counting machines.

4) User-Friendly Operating System

The machine is equipped with a bilingual (Chinese/English) graphical HMI, providing real-time fault diagnosis and clear alarm messages for intuitive operation and easy maintenance.

Technical Parameters

Equipment Model	Visual Counting Machine
Applicable Product Size	Thickness: 3–30 mmDiameter: 1–30 mmLength: 2–45 mm
Production Capacity	70 bottles/min (irregular tablets subject to actual feeding conditions)
Filling Quantity per Bottle	8–9999 pcs
Number of Linear Feeding Channels	16 channels
Hopper Capacity	50 L
Conveyor Belt Length	1900 mm (customizable)
Container Diameter	Ø30–Ø75 mm
Container Height	40–200 mm
Power Supply	220V / 380V, 50 / 60 Hz
Compressed Air Supply	5 kg/cm ² , 20 L/min
Working Air Pressure	3–5 kg/cm ²
Machine Dimensions	2560 × 1700 × 1840 mm (subject to actual machine)