

Fully Automatic Pigtail Dispensing Machine



Article Overview

A fully automatic pigtail dispensing machine is a high-precision, high-speed system designed to automate the dispensing of adhesives, fluids, or sealants onto pigtail components with consistent accuracy and efficiency.

Key Features

High Precision and Accuracy: These machines use linear motor drives, grating ruler positioning, and advanced XY/Z axis control to achieve precise fluid placement, often with positional accuracy within $\pm 25\text{ }\mu\text{m}$ and Z-axis repeatability of $7\text{ }\mu\text{m}$, ensuring consistent quality across production runs . **Automation and Efficiency:** Fully automatic systems can operate with multiple heads, valves, and tracks to increase throughput. Some models support synchronous or asynchronous dispensing, allowing simultaneous operations on multiple pigtails, reducing cycle time and improving unit-per-hour (UPH) performance . **Versatility and Compatibility:** Adjustable track widths and modular designs allow these machines to handle pigtails of various sizes and materials. Large carrier plates (up to 2600mm in length) enable completion of multiple components in a single operation . **Integrated Monitoring and Control:** Many systems include vision-guided cameras, touch-screen interfaces, and alarm indicators for real-time monitoring, process verification, and easy debugging . **Material Handling:** Machines often support large-volume glue tanks or fluid reservoirs to minimize refill frequency. Proprietary valves provide laminar flow, self-cleaning capabilities, and rapid changeover for different fluids

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