

Military Connector Assembly Automation Machine

This automated machine assembles and processes military connectors. It automatically feeds components, detects concentricity and perpendicularity, and distinguishes between accepted and rejected products.



Overview

Automated Military Connector Assembly

This high-precision automation machine is engineered for the efficient assembly and processing of military-grade connectors. It integrates advanced pneumatic components and precision linear guides to ensure reliable, consistent performance. Designed for industrial environments, the system automates critical tasks including feeding, concentricity, and perpendicularity inspection, while providing real-time production monitoring.

Technical Components

Pneumatic Components	High-precision pneumatic actuators, Industrial-grade air control
Motion Control	Precision linear guide and module system

Automation & Intelligence

Key Automation Capabilities

- Automatic material feeding
- Automatic concentricity detection
- Automatic perpendicularity detection
- Automatic sorting of accepted/rejected products
- Automatic material shortage detection

Monitoring & Alarms

- Automatic alarming system
- Error reporting with solution messaging
- Capacity prediction and recording

Design & Build

Safety & Design

Transparent Safety Enclosure • Mobile Platform • Integrated HMI Control