

Automated Cylinder Production Line

This automated production line is designed for cylinder manufacturing, incorporating workstations for sequential processing. It features precision machinery for cutting, forming, welding, and testing.



Overview

Automated Cylinder Production Solution

This automated cylinder production line is engineered for high-efficiency manufacturing, integrating precision mechanical components with advanced control systems. The system streamlines the entire production cycle, from automatic material feeding to final sorting, ensuring consistent quality through automated calibration and inspection. Equipped with intelligent monitoring and alarming capabilities, the line maximizes uptime and provides actionable insights into capacity and material management.

Technical Components

Material Grade

S136

Pneumatic Components

FESTO, SMC

Precision Guides

Taiwan HIWIN precision linear guide

Control Systems

Mitsubishi PLC, HMI

Process Capabilities

Production Workflow

- Automatic material feeding
- Fully automatic calibration
- Drilling and deburring
- Sealing and vane-slot punching
- Cylindrical punching
- Key-slot punching
- CCD detecting and sorting
- Automatic finished product recycling

Intelligence & Monitoring

Key Intelligent Features

- Automatic alarming system for irregular operations
- Automated incoming material induction
- Material shortage detection
- Capacity prediction and recording