

# MV900 New Era in Process Monitoring



A

ESG



## Discover the New Process Monitoring System

### Hybrid

New sensors and their different combination create strong synergy

- Force
- 3A
- E-meta

### AI

4M\*, Electric, Environmental changes detected by Al

- Data driven
- Multi-modal learning
- Algorithm

### **Hyper-Connectivity**

Whenever, Wherever real time link

- $\cdot$  Mobile alarm
- OTA\*\*
- Cloud

### ESG

Provide the carbon emissions produced per unit of product

- E-meta
- Electric Monitoring Algorithm
- V, A, kWh, power factor

\*4M: Man, Machine, Material, Method \*\*OTA: Over the Air

### Feature

Versatility

#### Advanced Algorithm

Automatically collects machine operating conditions and pressing force data to perform optimized monitoring.



#### **Product Management**

#### • Register & Manage

Seamlessly adds and organizes product codes.

#### Quick Access

Simply selects a code to instantly load the corresponding monitoring parameters.

#### Generate Envelope Curve

Provides high-quality detection performance with an easy-to-use interface.



#### **Force Trend Monitoring**

Observes changes in monitoring data over time to ensure precise application and optimized performance.



#### Force Bar per Process

Shows peak force as a bar graph for each process step and helps improve processes by checking force balance.



#### **Force Management**

Sets and manages maximum and minimum force standards.



#### Partial Tolerance Zone

Uses different tolerances in parts of the envelope curve for more accurate monitoring and better productivity.

### FkN

#### kN, Absolute Force

Calibrates pressing force as an absolute value and converts it into dynamic load.

#### **Tool Resource Management**

Keeps track of tool life and sends warning when it's time to replace them.



#### **Electric Monitoring**

Monitors V (Voltage), A (Current), kWh (Energy), power factor, and more.



#### 3A (Axis) Acceleration Monitoring

Monitors acceleration in X, Y, and Z axes in 3D. Anomaly detection technology for motors, transfers grippers, ram slides, tools, etc.



#### **Power Consumption Monitoring**

Provides analysis of carbon emissions and carbon footprint per product.



#### **IIoT for Industry 4.5**

Acts as a gateway, connecting data from sensors to platforms like Machine365.Ai (Cloud), SmartPOP, FactoryView (MES).



#### **OTA Update**

With Machine365.Ai, upgrade to the latest functions and enhanced performance.



#### **Auto Setting**

Analyzes signals during teaching and automatically sets tolerance AI-guided automatic parameter setting.



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#### Alarm Log

Automatically saves monitoring records, allowing you to track detection history and frequency.

#### Ghost Shift

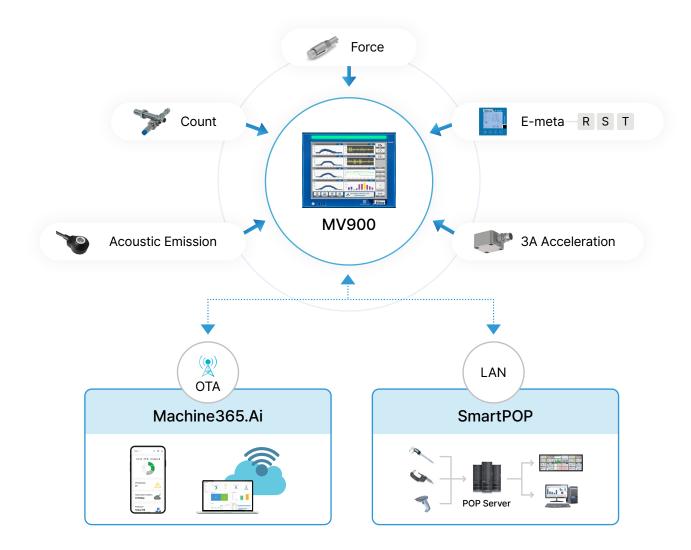
Stops the machine automatically once the production target or operating time is reached.



#### **Run/Stop Chart**

Provides real time equipment run/stop status. Can manage the operating rate of equipment.

### **System configuration & Network**



### **Technical data**

#### Model: MV900

Display	15" Color TFTLCD, Full touch I/F	Power supply	220/110V (Free volt)
Size(mm)	393×317×74 (WxHxD)	External Interface	USB 2.0 - 2 ports
No. of channels	8		RS232C - 1 port Ethernet – 1 port
Sensor	Force, Proximity, E-meta, 3Axis Acceleration, Acoustic Emission, Rotary Encoder		Wireless LAN – Wifi 6E (802.11AX) DI4/DO6

Specification can be changed without notice.



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