

# MV900

New Era in Process Monitoring



Hybrid

AI

Hyper-Connectivity

ESG

# Discover the New Process Monitoring System



## Hybrid

New sensors and their different combination create strong synergy

- Force
- 3A
- E-meta
- PLC

## AI

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

- Data driven
- Multi-modal learning
- Algorithm

## Hyper-Connectivity

Whenever, Wherever  
real time link

- 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

Easy

Flexible

Versatility



## Advanced Algorithm

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



## Electric Monitoring

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



## 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.



## 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.



## Force Trend Monitoring

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



## IIoT for Industry 4.5

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



## Force Bar per Process

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



## OTA Update

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



## Force Management

Sets and manages maximum and minimum force standards.



## Auto Setting

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



## Partial Tolerance Zone

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



## Alarm Log

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



## KN, Absolute Force

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



## Ghost Shift

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



## Tool Resource Management

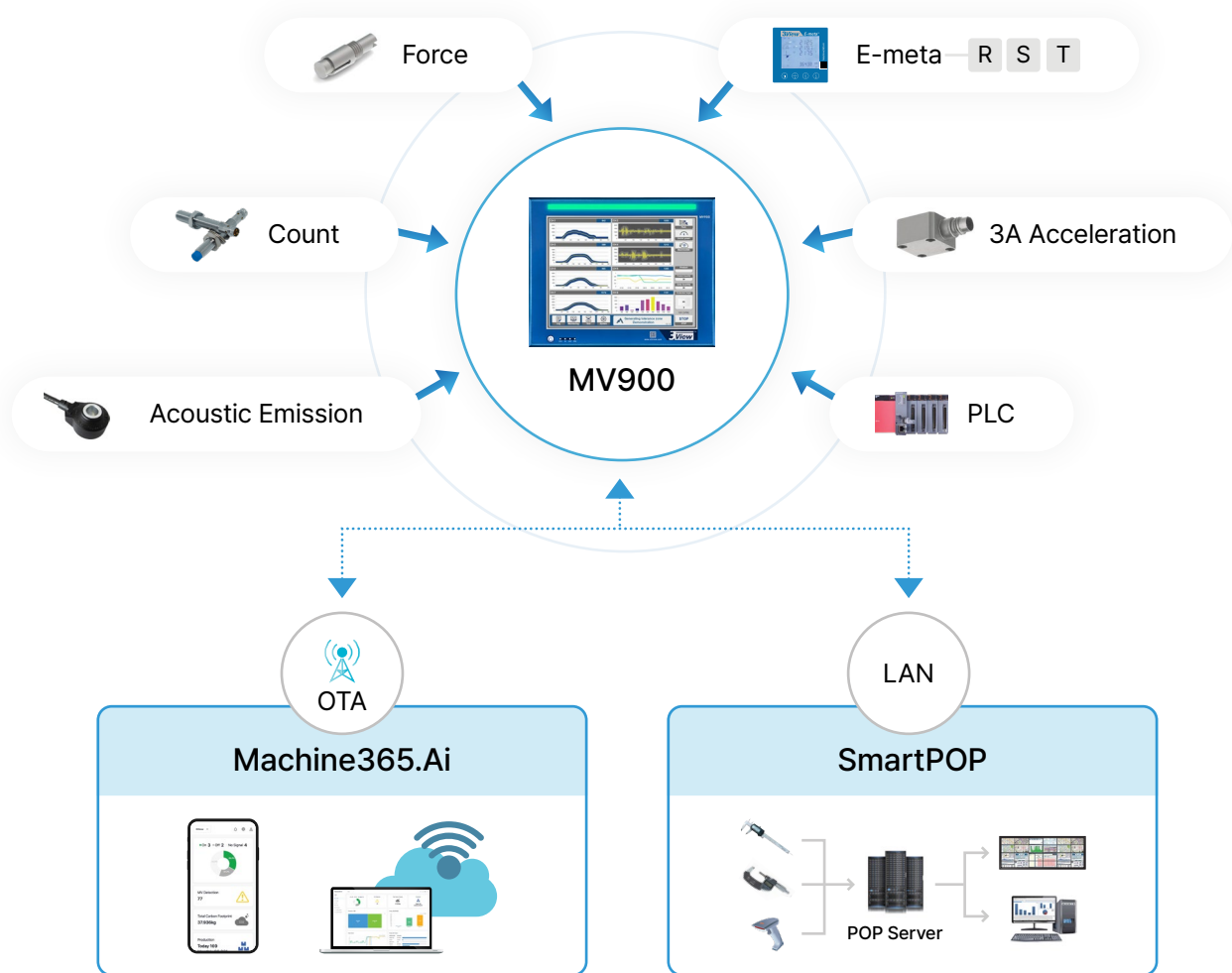
Keeps track of tool life and sends warning when it's time to replace them.



## 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 (W×H×D)	External Interface	USB 2.0 - 2 ports RS232C - 1 port Ethernet - 1 port Wireless LAN - Wifi 6E (802.11AX) DI4/DO6
No. of channels	8		
Sensor	Force, Proximity, E-meta, 3Axis Acceleration, Acoustic Emission, Rotary Encoder		

Specification can be changed without notice.



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