WISE-iMachine

Advantech iMachine Smart Machine Management System

A Future of Al-Enabled Machines

Solution Suite

9806IMSAS01, 9806IMSAD01, 9806IMSAD11









Solution Introduction







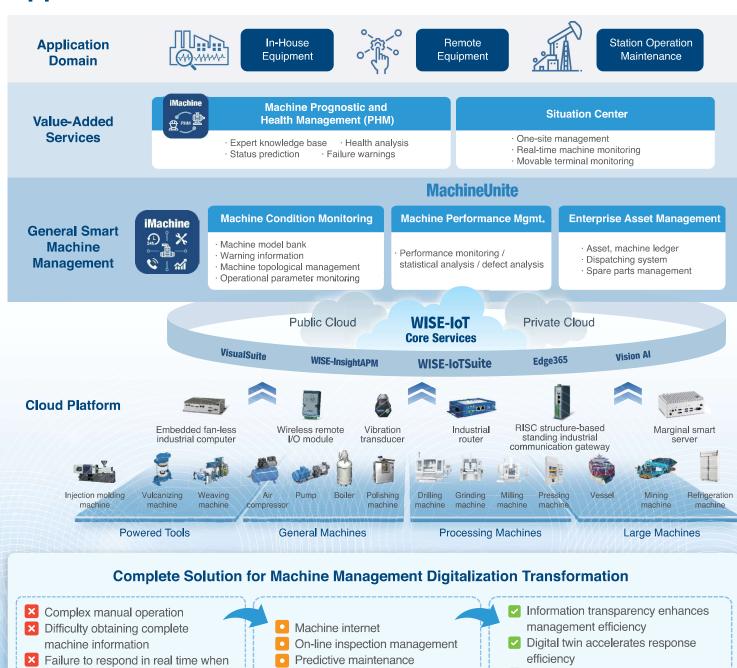


Control future risk for early response

The core of the WISE-iMachine solution is machine asset management which transforms each type of machine into a digital asset for machine integration. Advantech iMachine brings a complete set of solutions from edge-to-cloud to assist you in speeding up the development & deployment of internet machine management, and is fully dedicated to the vertical market and core business. It features an array of value-added applications like machine data control, predictive maintenance, and the situation center. These features can be applied to various scenarios including in-house machine management, remote machine management, and station maintenance.

Application Structure

there are unexpected damages



Feature Highlights

Situation Room

Tracking Machine Performance

The machine map is based on Google maps and allows you to check machine status and statistical results. It provides warning statistics and category analysis of any machine anomalies.



Machine Performance Management

Real-time production

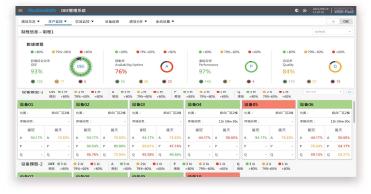
Management can set targets to support production efficiency for different processes and regions

Root-cause

Analyze statistics to get a deep understanding of root causes of issues to support decisions

Process Monitoring

Provides real-time machine monitoring of various measures to control machine efficiency.



Vision Analysis Tool

Identify machine inefficiencies with the vision analysis tool.



Region Monitoring

Supports regional review with the ability to examine a target machine to manage efficiency.



Root Cause Analysis

Provides a summary of root causes for management to analyze and use to devise improvements.



Machine Condition Monitoring

Real-time monitoring

One-station manages multiple I/O positions of machine data in cooperation with flexible workflows and thresholds. A machine management workstation can be set up in accordance with daily demands and employee knowledge.

Remote control

A machine can be connected anytime and anywhere to be controlled remotely. A time schedule and event-triggered conditions can also be set up to automatically manage numerous machines. An unmanned machine room with quick response capability can be achieved.

Anomaly surveillance

Machines can be integrated to provide one-way information. This allows the support administrator to provide rapid response to any issues that may arise.

Machine Overview

Summary of the status for the machine under control. Any anomalies will be highlighted.



Anomaly Surveillance

Supports machine management and dispatch.



Historical Data Analysis

Supports analysis of different machine parameters and optimizes the maintenance and service strategy.



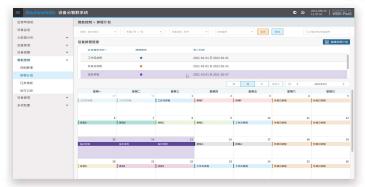
Machine Data Overview

Monitor the real-time status



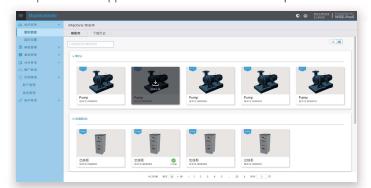
Remote Control

Enables scheduling and an unmanned machine room.



Machine Management Template

Integrates regional experience to provide management templates and support the administrator for fast implementation.



Enterprise Asset Management

Service & maintenance workflow integration

Summarizes the working items and historical records from maintenance planning to the inspection process. Supports digitalization of the machine management flow.

Virtual scenario integration

Enables review of historical machine information by scanning the QR code on a field machine. Combines virtual stations with real management scenarios.

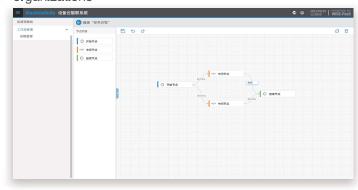
Service & Maintenance Schedule

Defines the maintenance schedule according to each machine



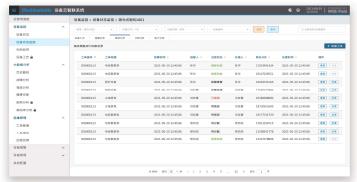
Work Flow Management

Define the appropriate work and approval flow for organizations



Service Record

Monitor machine tasks to be handled and build a service & maintenance record for each machine



Work Progress Surveillance

Monitors the progress of tasks and the personnel responsible for each work order



Machine PHM

Management targets established by flexibly applying Al models

Enables the training and deployment process for an AI model and controls the performance of the AI model.

Machine health index monitoring

ISO10816 and machine degradation process monitoring

Al Project Management

Set up an AI management scenario for your machine to check the machine AI index



Overview of Machine Diagnosis Information

Determine the effective elements of AI models and provide retrospective and predictive information to support diagnoses



Subscription information

Provides dealers with different subscription plans to provide customers with value-added services. You are invited to join iMachine smart machine management solutions as an ecopartner.

WISE-iMachine		
	Speedy verification solution Available to be used upon connection	400 Tags upper limit
Depolyment Mechanism	No need for additional deployment	
Flexible Expansion	400 Tags per unit	
Data Storage	1 year	
Data upload	1 minute	
Muli-tenant	_	

Data Acquisition Terminals



ECU-1051

TI Cortex A8 300MHz CPU with DDR3L 128MB RAM ECU-1051TL-R10AAE



ECU-1051

Intel® Atom® E3940 processor (1.6 GHz) with 8GB DDR3L memory
UNO-137-E13BA



ECU-1251

TI Cortex A8 800MHz CPU with DDR3L 256MB RAM ECU-1251TL-R10AAE



EI-52

Intel 11th gen. Core i5/i3/Celeron with 8/16 GB Dual-Channel DDR4 Memory EI-52-S6A1 (i5 CPU/16GB) EI-52-S2A1 (i3 CPU/8GB) EI-52-U0A1 (Celeron CPU/8GB)

PHM Vibration Data Acquisition



WISE-6610

Enhanced LoraWAN Gateway WISE-6610-N100-A (LoRaWAN gateway supports up to 100 nodes at 915 MHz)



WISE-2410

LoraWAN Vibration Wireless Sensor WISE-2410-NB (US) WISE-2410-EB (EU) WISE-2410X-E21NA (IECEx Zeon21 for NA915 Band)



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Enabling an Intelligent Planet

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