

Promizer

Power Electronics Systems

Industry Solutions

Factory Automation

Non-stop equipment operation

Assembly Process Data Collection System

High-reliability autonomous control using motion systems and real-time condition monitoring technology.

This system collects environmental data and machining data from CNC machines, PLCs, and various sensors and stores the data in one package for each product and each production cycle.

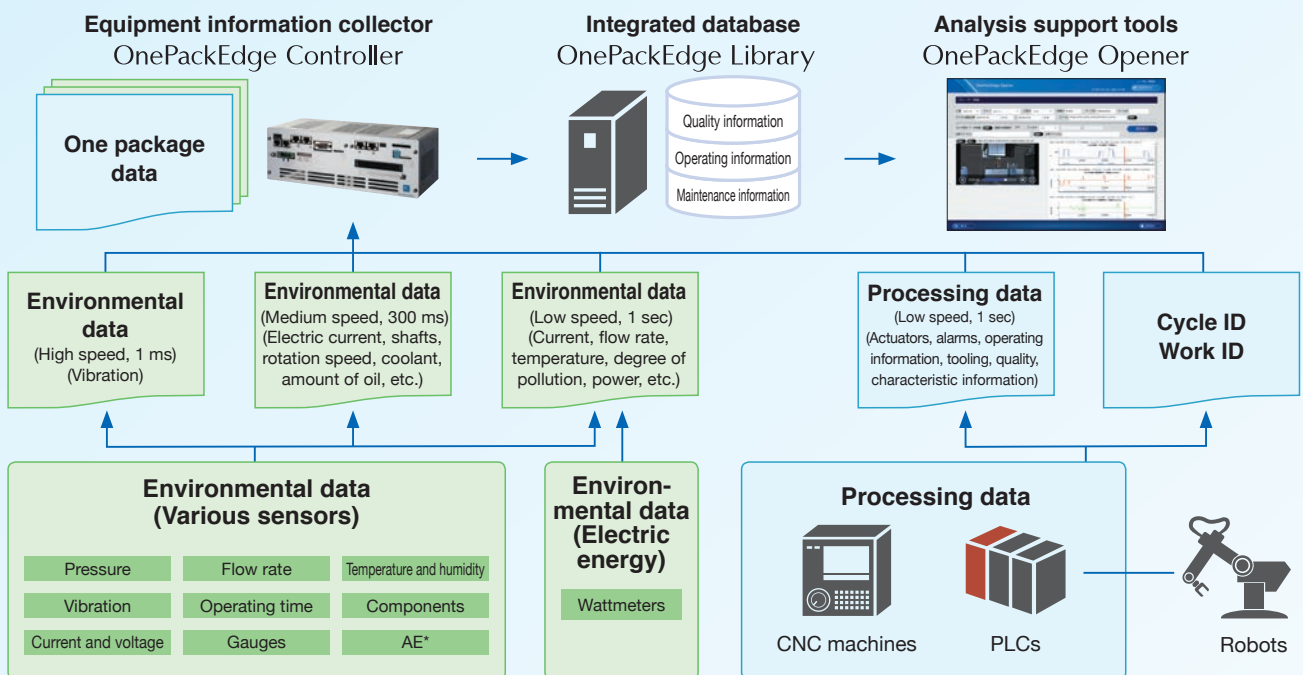


【Benefits】

- ✓ Each department can obtain the required information from an integrated database
- ✓ Equipment abnormalities and defects are prevented by multifaceted analysis of on-site information
- ✓ Easy to install by retrofitting existing equipment for reduced installation costs

【System features】

- Equipment environmental data and product processing data are packaged as 1-cycle data for each product
- Data can be collected using different input methods and collection cycles in one package
- Equipment status can be visualized using the integrated database and analysis support tools



* AE: Acoustic emission

【Functional overview】

■ Data collection: OnePackEdge Controller **Equipment information collector**

Data on the cause of equipment abnormalities and defects are collected as one cycle from the start to the end of product processing. Various controllers can be connected without programming. Equipped with analog inputs for capturing data from various sensors.

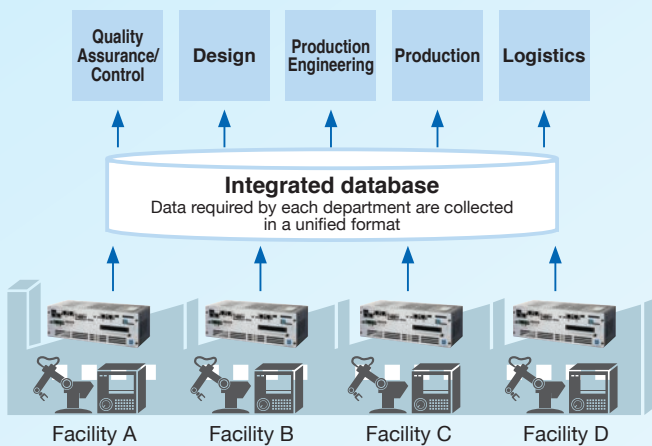
■ Data utilization: OnePackEdge Opener **Analysis support tools**

Collected data can be easily read out and visualized. Equipped with a function that discriminates between waveforms to automatically sort by product type according to the waveform pattern.

In addition, a filter function and fast Fourier transform (FFT) analysis function are provided to support waveform data analysis.

【Introduction example】

■ Data are collected from each facility on a product-by-product basis, and each department has shared access to the integrated database



How data can be utilized

When a failure occurs the data can be easily identified and the situation at that time checked in detail.

- Search by specifying conditions such as the line, process ID, cycle start time and date, etc.



- Select any data from the search results and check it.



【System configuration】

Fog layer

Engineering tools



Collection settings

Data utilization



Analysis support tool
OnePackEdge Opener

Factors Tools Maintenance Quality Operations Inspections

Integrated database OnePackEdge Library

Edge layer

Data collection



Equipment information collector
OnePackEdge Controller

Foods

Electric and electronic products



Facility

Processing data



Environmental data



Video, audio, other information



Factory

Engine

Body

Casting

Processing

Assembly

Pressing

Welding

Molding

Painting

Assembly

Inspection

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