

# SENSPIDER

## Enables Condition-based Maintenance for Your Industrial Equipment

Fits right into control panel! Can be installed on Din Rail

### SENSPIDER (SSP1000)

Edge computing device with 4 sensor interface card slots

Compact size: Width 5.9 in (150 mm)  
Depth 3.3 in (85 mm)  
Height 3.9 in (100 mm)



#### High-speed Vibration Sensor Interface (SSPC1310)

Connects up to 2 ICP-compatible vibration sensors

#### General-purpose Sensor Interface (SSPC1320)

Connects up to 2 current/voltage sensors

#### Temperature Sensor Interface (SSPC1330)

Connects up to 2 thermocouple (Type J or K), RTD or thermistor

## 4 Key Features of SENS PIDER

### 01 Flexible Sensor Deployment

- Supports up to 8 channels of analog sensors
- Choose any combination of 3 interface card types

### 02 High Sampling Rate (48KHz)

- Supports high-bandwidth vibration sensors
- Includes power supply and amplifier for sensors

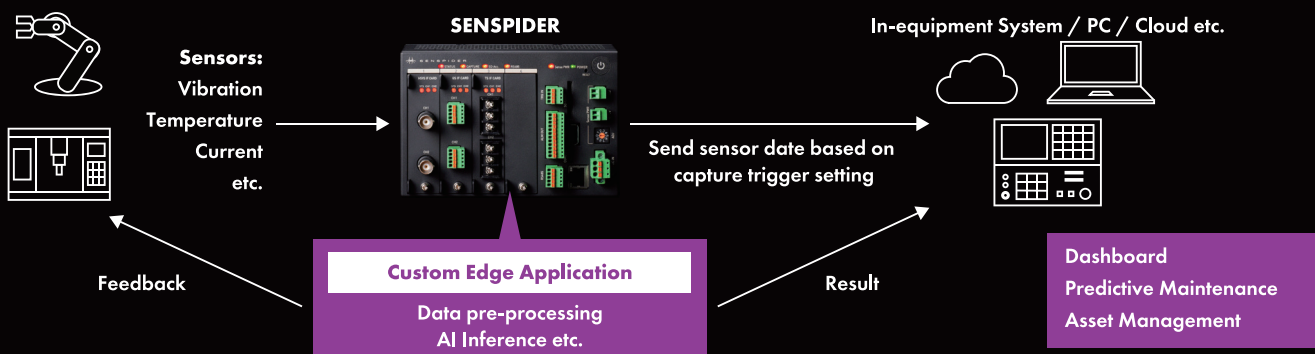
### 03 Capture Data When You Need It

- Signal from external equipment
- Command from external software
- Threshold
- Date & time
- Cycle



### 04 Run Custom AI Model on the Edge

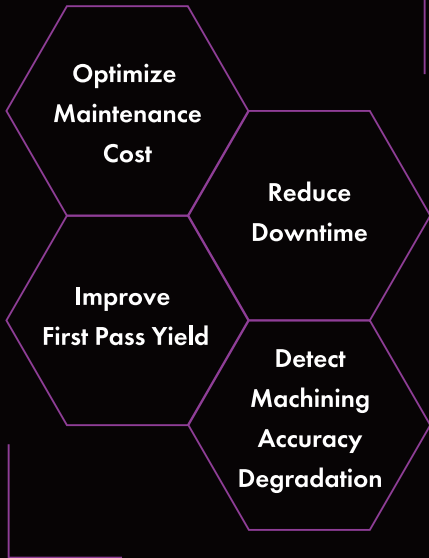
- Senspider edge computing enables real-time anomaly detection
- Use Python SDK to run custom AI model and/or data-processing
- Improve model training by using multiple sensor data for multivariate analysis



# Condition-based Maintenance (CBM)

Senspider helps you transition from traditional Time-based Maintenance to new Condition-based Maintenance which monitors the health of equipment with sensors and data analysis.

## Goals



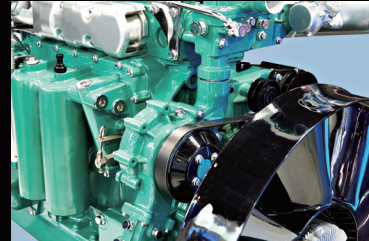
## Applicable Equipment

Mission-critical assets with any rotation mechanism

e.g. machine tool, press machine, injection molding machine, semiconductor manufacturing equipment, industrial printer, large-size boiler/pump/compressor, centrifuge, cooling tower etc.

## Applicable Parts and Modes

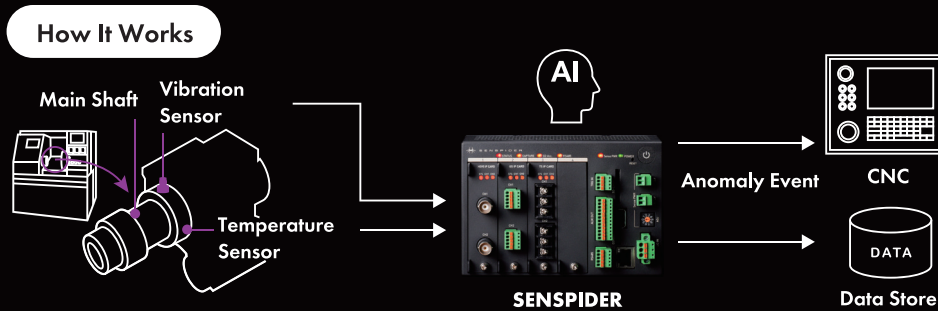
Bearing Damage/Wear Main Shaft Anomaly Shaft Unbalance  
Ball Screw Failure Tool Anomaly/Chatter



## Case Study

### Embedding CBM into Industrial Equipment

Added monitoring, anomaly detection and predictive maintenance features by installing sensors. SENSPIDER allowed the customer to reduce cost and shorten development time.



### CBM for Smart Factory / Critical Assets

Installed sensors on existing equipments and built monitoring system using the sensor data.

