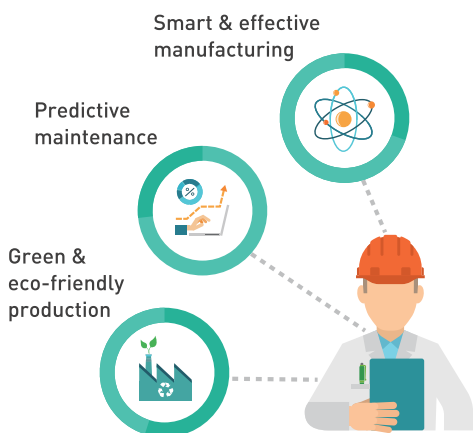
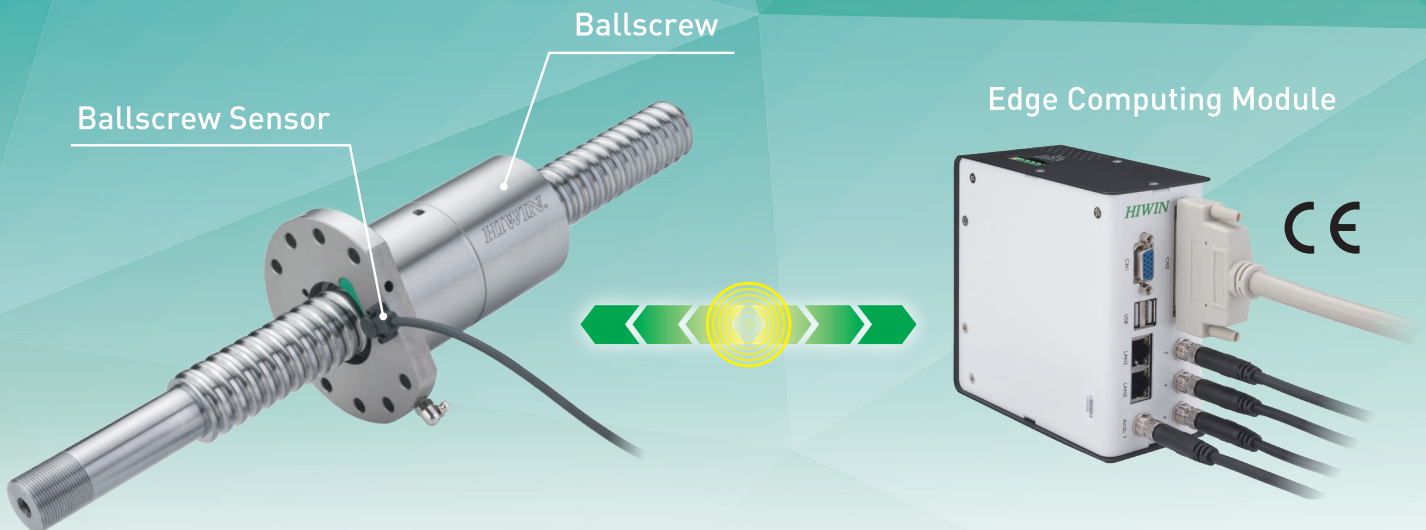


HIWIN®

i4.0BS®

Intelligent 4.0 Ballscrew



HIWIN i4.0BS® is the first intelligent 4.0 ballscrew in the world. It combines a multifunction sensor to detect vibration and temperature with professional algorithm. Users can monitor the status of each machine in real time from the APP to arrange maintenance schedule. It can avoid machines' unexpected shutdown, and achieve high machine utilization, energy saving and environmental protection.

i4.0BS® Applicable Industries

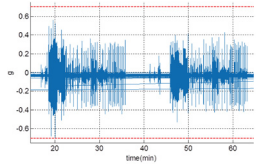
Examples:

- Machine Tools
- Semiconductor Equipment
- Automation Equipment
- Industrial Machines

Intelligent Diagnosis

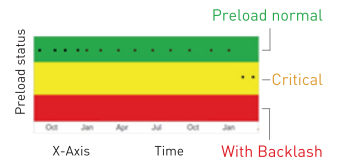
Vibration Diagnosis

Abnormal vibration alarm monitors the ballscrew is working normally. And record the abnormal data in historic data.



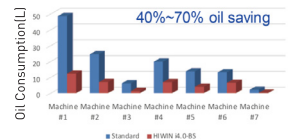
Life Prediction

To remind the customer for machine maintenance, to avoid machine damage and shutdown without warning.



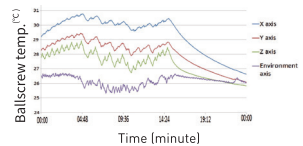
Smart Lubrication

The smart lubrication can control the lubricant volume to ensure the ballscrew work in optimized condition and eco-friendly in oil consumption.



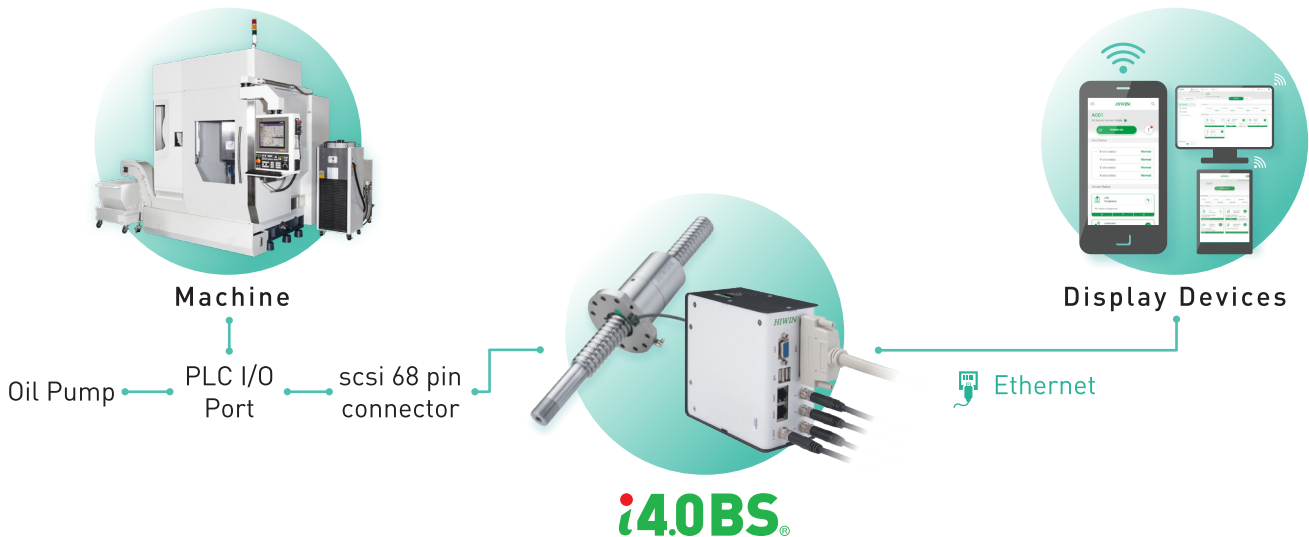
Thermal Diagnosis

Thermal alarm monitors the ballscrew working temperature and record the abnormal temperature in historical data.



i4.0BS® transmits signals via sensors and PLC I/O to the edge computing module for calculation and analysis. Then the results are shown on display devices through Ethernet network to achieve remote monitoring.

i4.0BS® features remote monitoring function through multiple devices, intelligent diagnosis and historic log . It can diagnose various warning messages of the ballscrew and detects the failed axis and failure occurrence time, to remind users to take actions for predictive maintenance.



HIWIN®

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