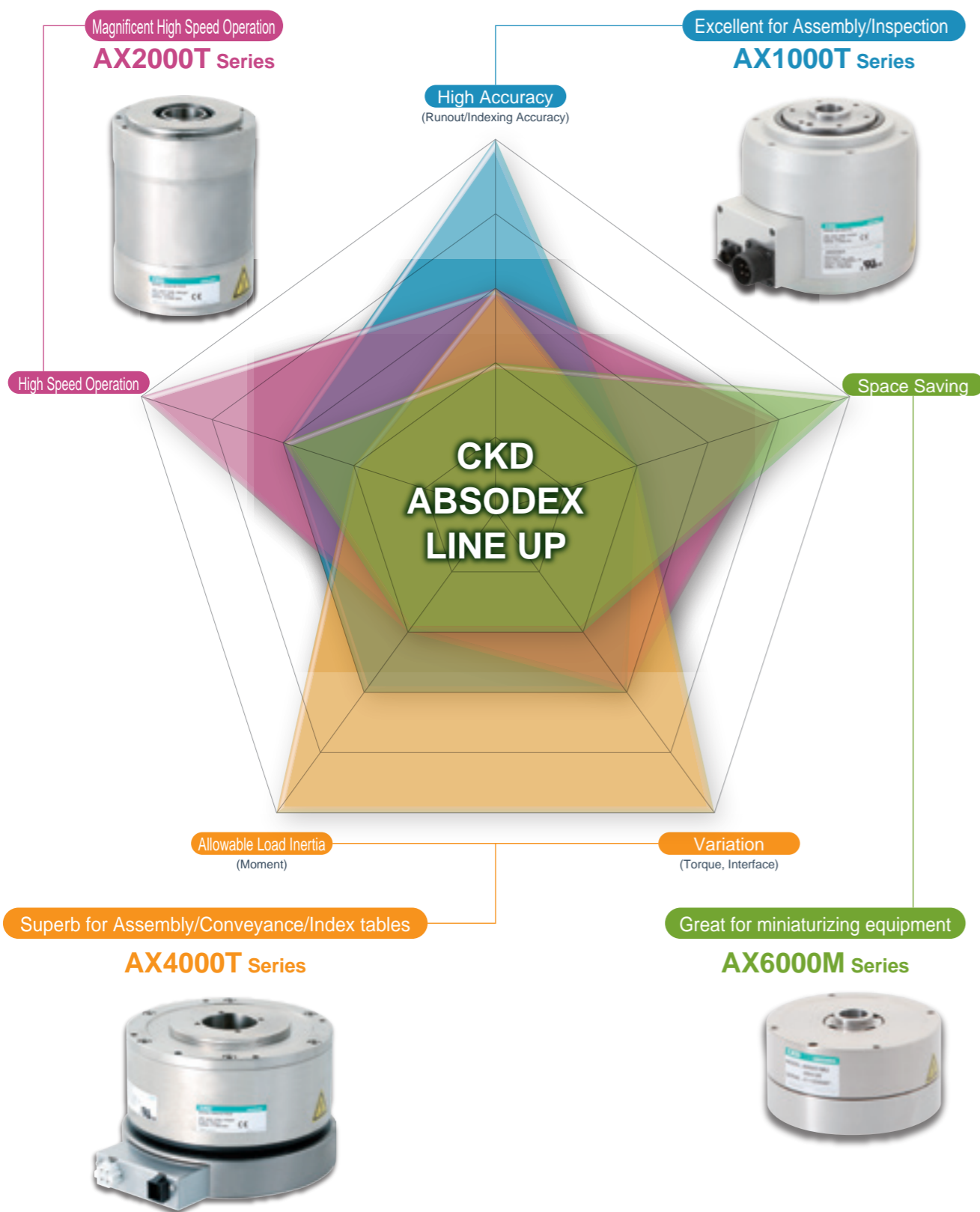


# LINEUP

## A broad lineup of ABSODEX selectable according to applications/purposes



**All actuators are absolute types**

# USABILITY

## 3 user friendly features of ABSODEX

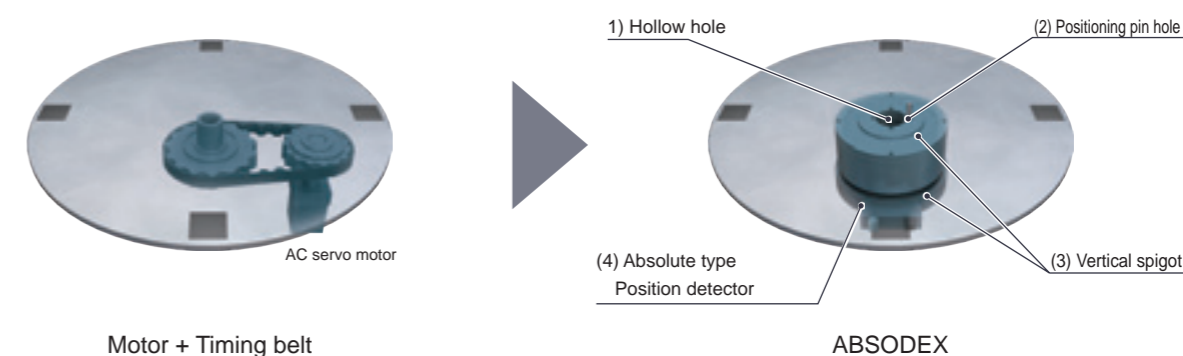
### Flexible Operation

With an abundant programming function realize the operation that you want.



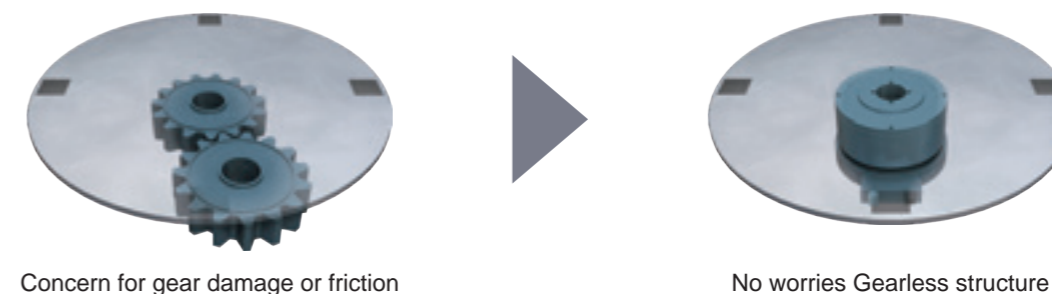
### Reduce Workload and Save Space

A simple design with 4 standard useful features.



### High reliability & maintenance-free

No more damaged or worn gears from a gearless design.



# DRIVER

## Compatibility

Freely combine compatible drivers and actuators

### TS/TH driver

(AX1000T, 2000T, 4000T)

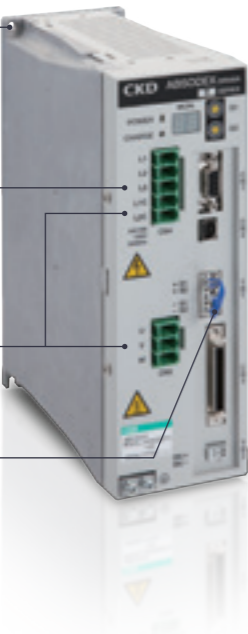
Mounting holes  
added to the main unit

Separate  
main power and  
control power

Connector adoption

Terminal for safety function

With the STO Function (Safe  
Torque Off), one can easily  
incorporate it with the drive  
circuit to cut OFF power.



### MU driver

(AX6000M)

Mounting holes

Connector adoption

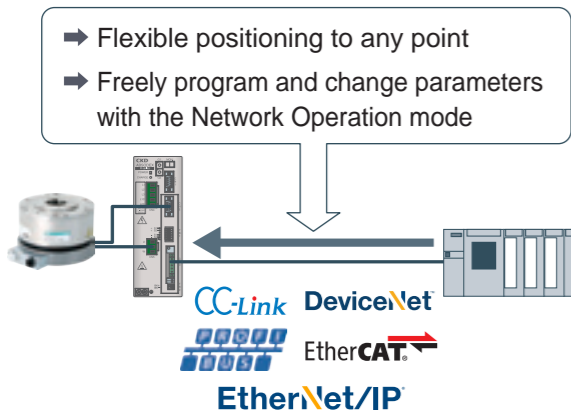
Separate  
main power and control power

24 VDC adopted for power supply  
Realized smaller dimensions.



### For the IoT of equipment!

- Monitor function  
(TS/TH wiresaving serial communication)
- Network operation mode  
(TS/TH wiresaving serial communication)



### Great usability!

- No need of backup battery for holding absolute position
- Freely combine compatible drivers and actuators

### Convenient functions that suit many applications

- Various functions for your usage!
- Segment position output function

# SOFTWARE

## Operation made easier

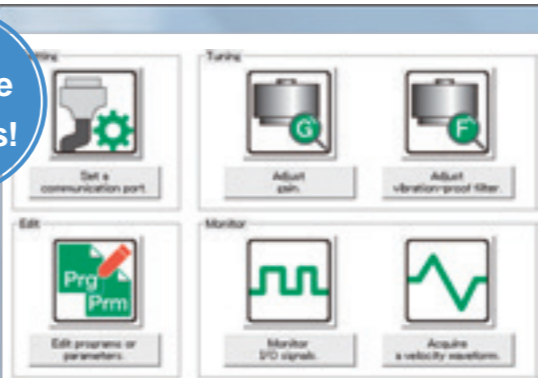
The AxTools is here to help you  
from operation settings to adjustments.

AX Tools is **Easier than ever** to use for both first-time and experienced users.

Intuitive operation with a simple and easy to use interface.

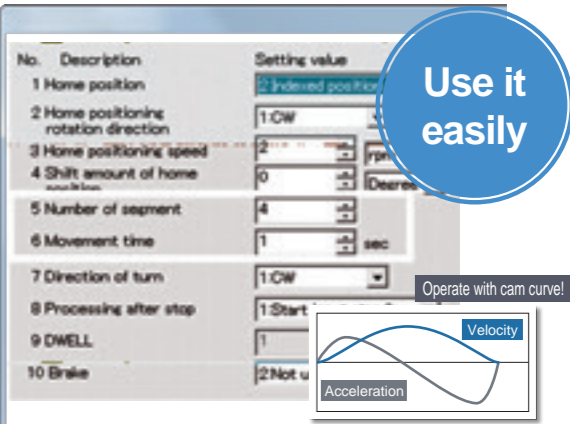
Free software

Intuitive  
settings!



Desired conditions can be instantly implemented.

Use it  
easily



In equal segmental programming, only the number  
of partitions and travel times need to be input.

## Industry's first! Equipped with an AI that Supports adjustments

### Conventionally...

- Tuning relied on experts
- Uncertainty when performing startup overseas
- Determining the quality of adjustment results was difficult



Anyone  
can use it

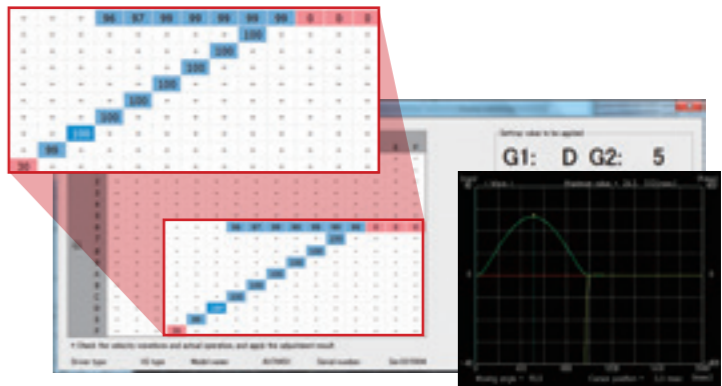
### Adjustments made by the AI

Input the  
conditions



Click

Data is acquired automatically and the most suited tuning is advised with a score



Also, simultaneous confirmation of the  
operation wavelength is possible

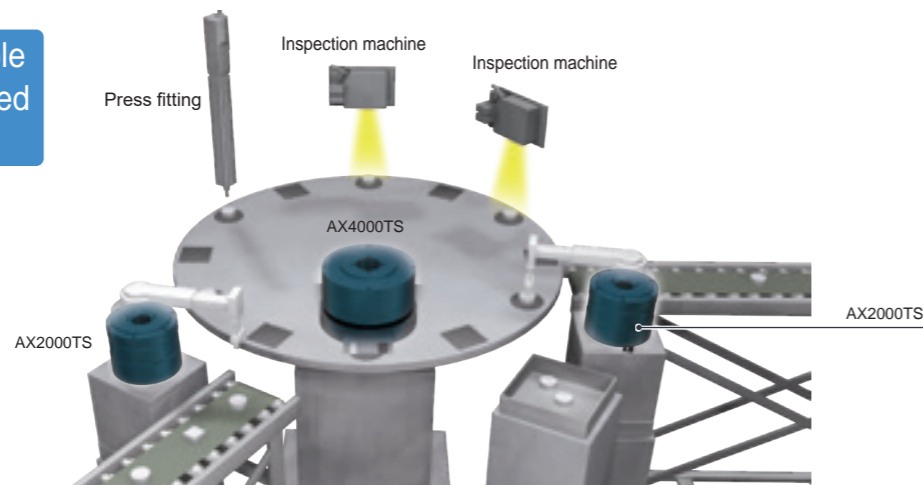
# USE CASE

## Case Study

### Assembly, Inspection Machines

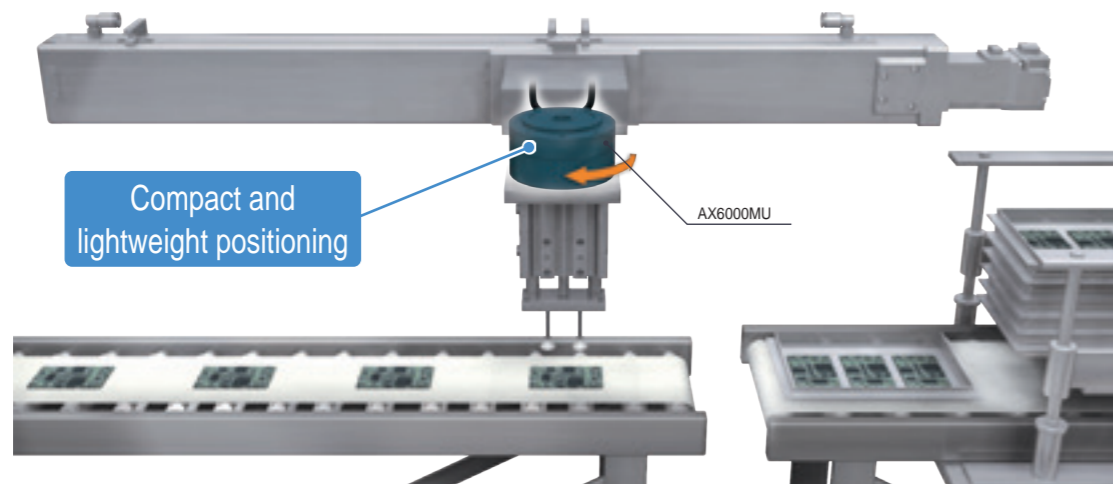
Conduct setup changes without time loss

Operation compatible  
with mass customized  
production



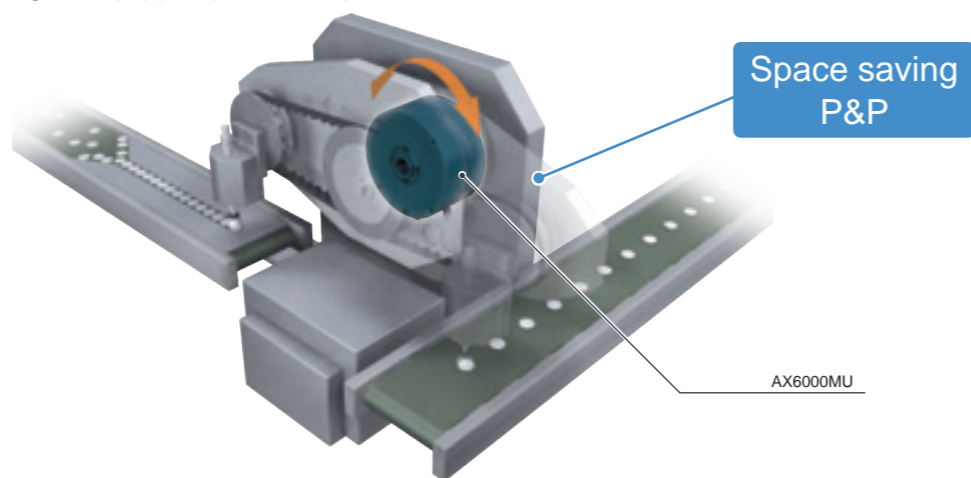
### Electronic substrate conveyor

Rotate electronic substrates by 90°



### Pick and place device

Work is conveyed using an equipped parallel displacement mechanism.



# ABSODEX

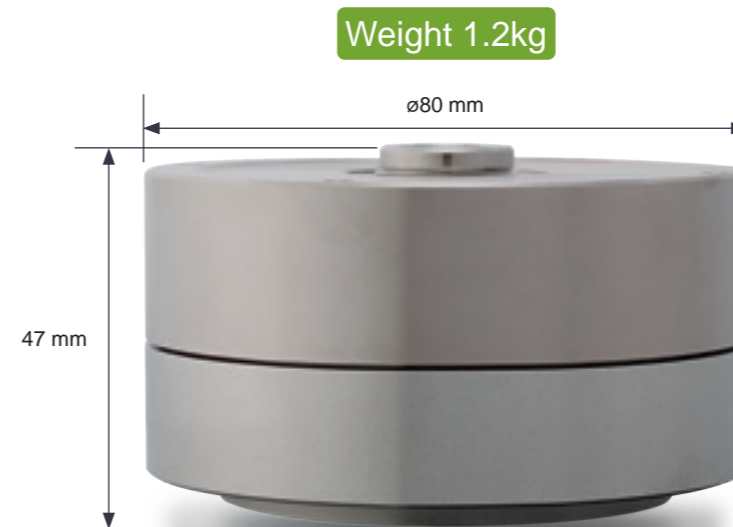
Compact and easy to use

## AX6000M Series



## Industry's smallest and lightest!

\*As of October 2016, CKD research



Ideal in these situations

● Conveying minute workpieces.

●  $\Theta$  correction of movable parts.



# ABSODEX

Compatible with a Wide range of Needs

## AX1000T/AX2000T/AX4000T Series



### AX1000T Series

- 5 sizes lined up from 22 to 210 N·m
- Improved indexing accuracy and deflection of shaft/surface, allowing for precise positioning

Most suited for

- Precision measurements
- Inspection machines
- Assembly machines

### AX2000T Series

- 3 sizes lined up from 6 to 18 N·m
- High speed operation, compact design

Most suited for

- Pick&Place
- Turn tables
- Assembly machines

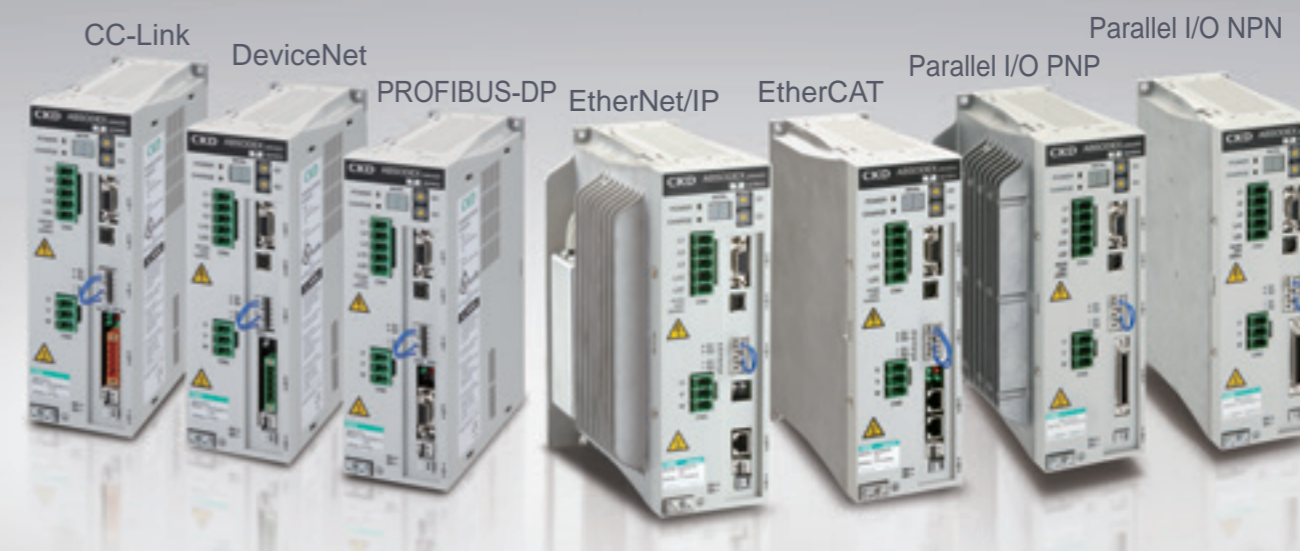
### AX4000T Series

- 8 sizes lined up from 9 to 1000 N·m
- Wide selection, supporting large inertial loads

Most suited for

- Pick and Place
- Turn tables
- Inspection machines
- Assembly machines

## AX9000TS/TH Series



### Safety Standards

Safety Standard Certification compatible (Safe Torque Off function)

### International Standards

Compliant with UL/cUL (N.A. standards) and CE (European standards)



Support for domestic and international networks



## Ideal for the IoT of equipment!!

### ● Abundant monitoring functions

The current status of ABSODEX can be monitored with extensive monitoring functions such as current position, speed, electronic thermal value, and alarm.

### ● Monitor function also available for preventive maintenance!

- Torque load factor: Monitors current torque load factor.
- Acceleration: Monitors current acceleration status.

### ● Network operation mode (Direct value mode) added!

The network operation mode allows flexible positioning from the host controller to any position.

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PROFIBUS      PROFIBUS is a trademark of PROFIBUS User Organization.  
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EtherCAT®      EtherCAT® is a patented technology, licensed by Beckhoff Automation GmbH in Germany.  
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