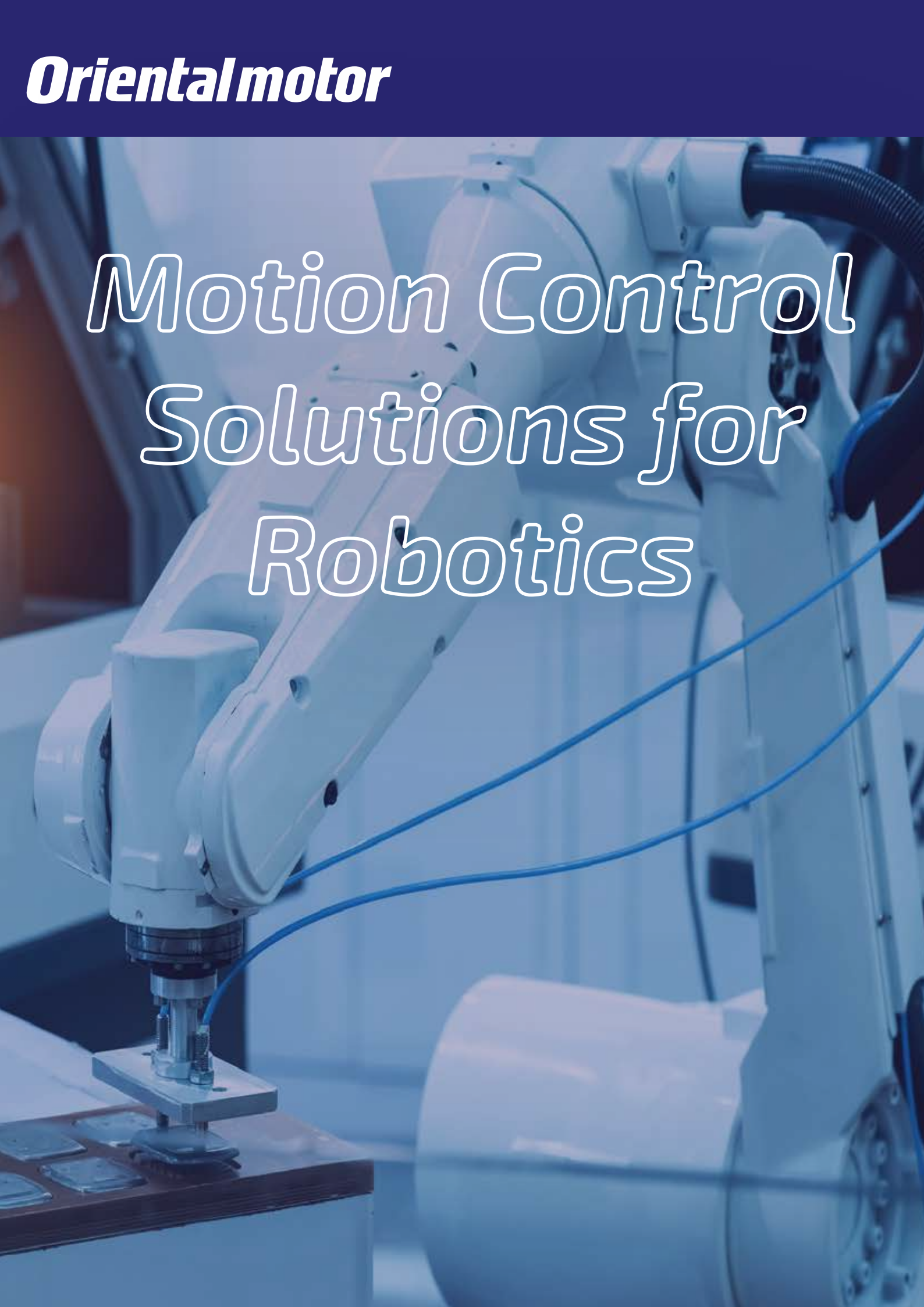


Orientalmotor

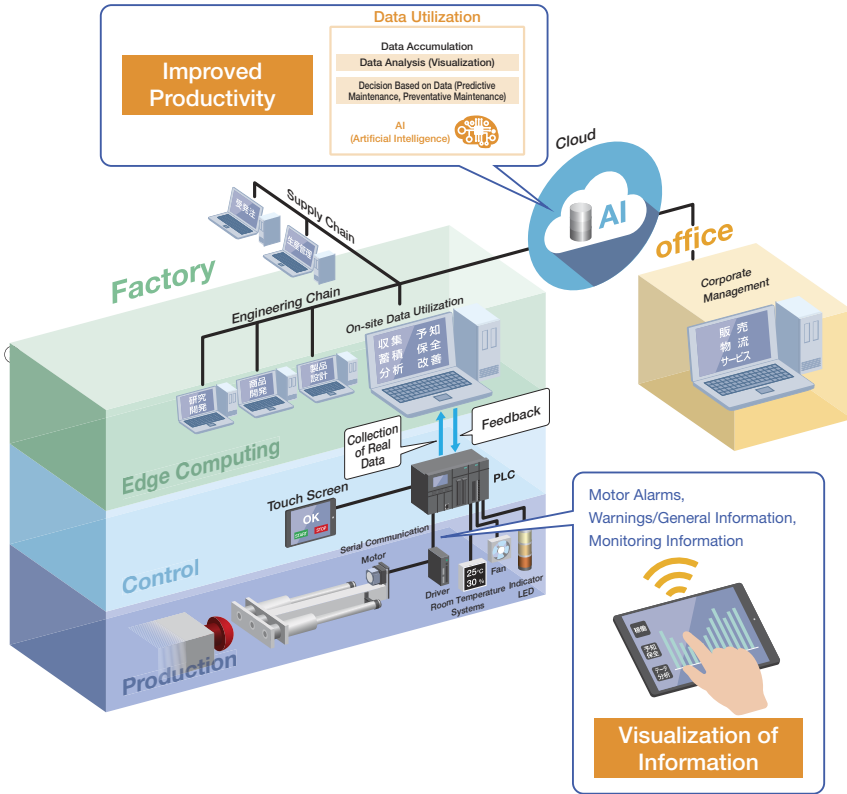
Motion Control Solutions for Robotics

A close-up photograph of a white industrial robotic arm in a factory setting. The arm is positioned over a workbench with several small components. The background is slightly blurred, showing other parts of the machinery. The entire image has a blue color overlay.

What is "Predictive Maintenance" and "IoT"?

System Overview

Industrial Internet of Things (IoT)



The internet of things, or IoT, is a system of interrelated computing devices, mechanical and digital machines, objects, people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

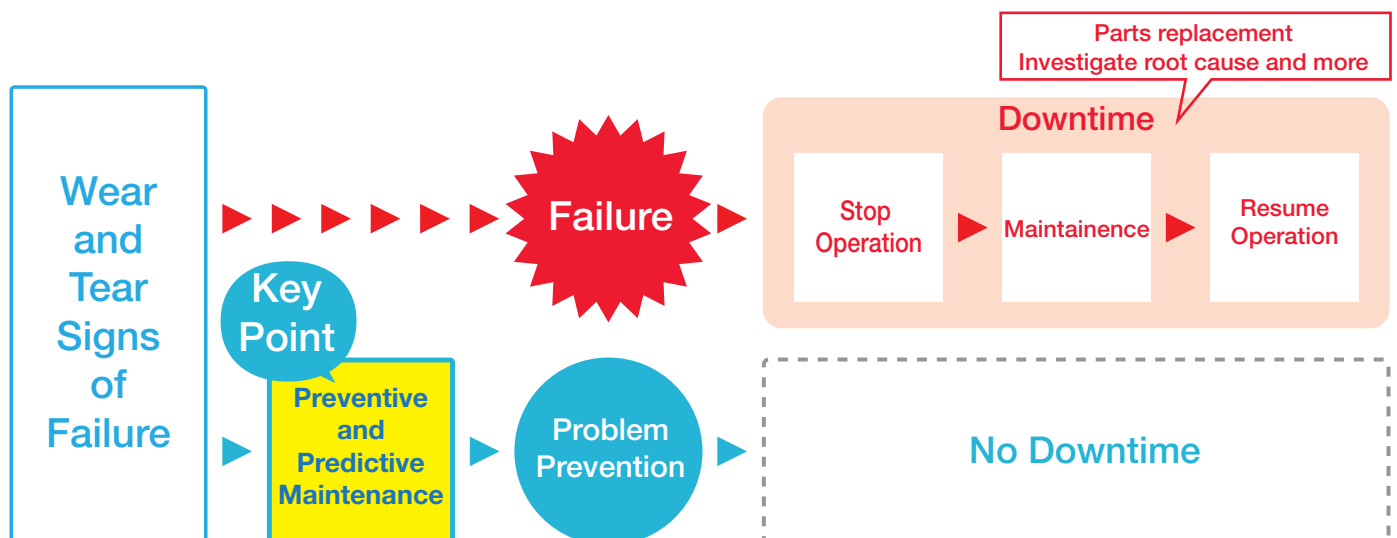


Video Example

Topic

Predictive Maintenance

- Until now, the mainstream concept was “post-maintenance where repair works every time a failure has occurred.
- It’s simple if it’s just replacing the damaged part, but it’s difficult if the machine is down with an unknown cause which takes time to inspect and to force stop machine production.
- In order to notice the signs of failure, it is important to monitor the changes of condition daily.

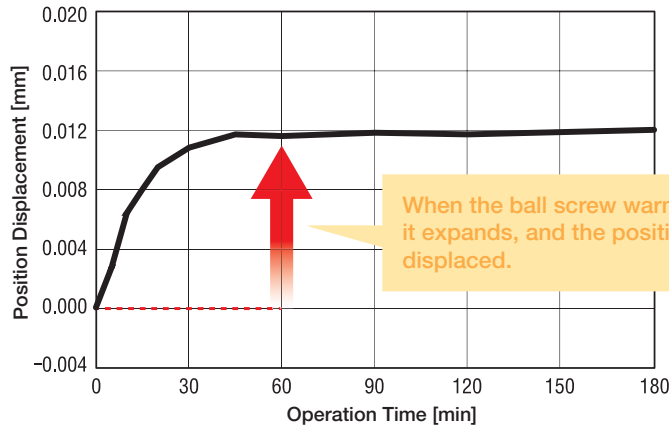
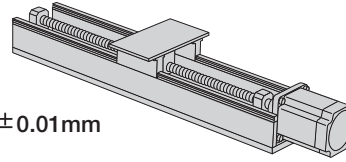


Example

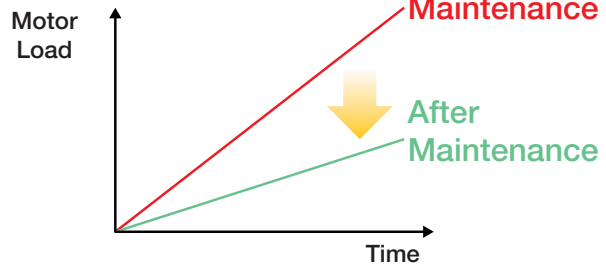
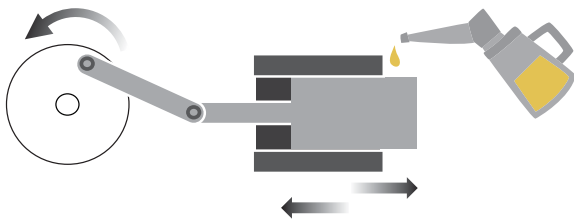
Visualize the change of condition

• Temperature Rise Over Time

Operation Method: Precise ball crew
 Repetitive Positioning Accuracy: $00b1 \pm 0.01\text{mm}$



• Motor's Load Over Time

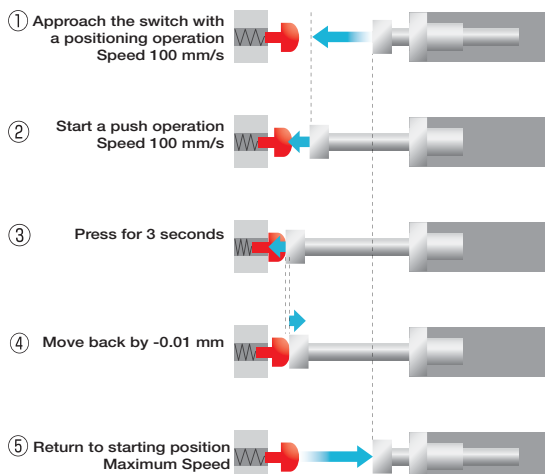
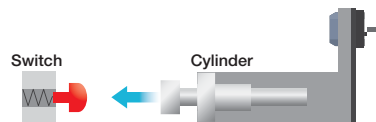


Example

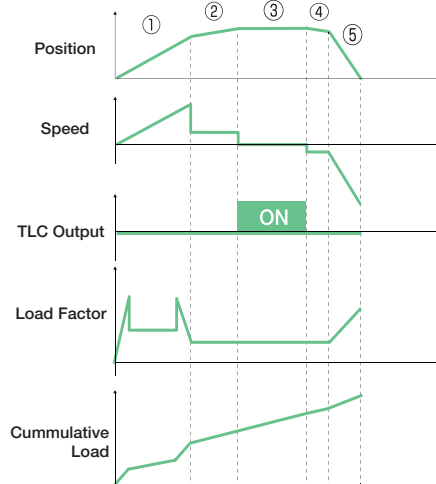
Real Time Monitoring

• Endurance Test Equipment:

Durability test device that repeatedly presses the push button of an electronic device



Real Time Monitoring

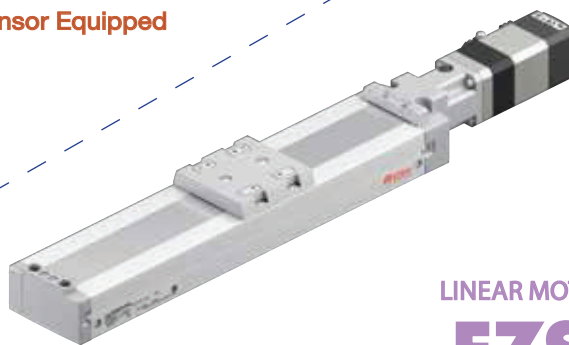




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