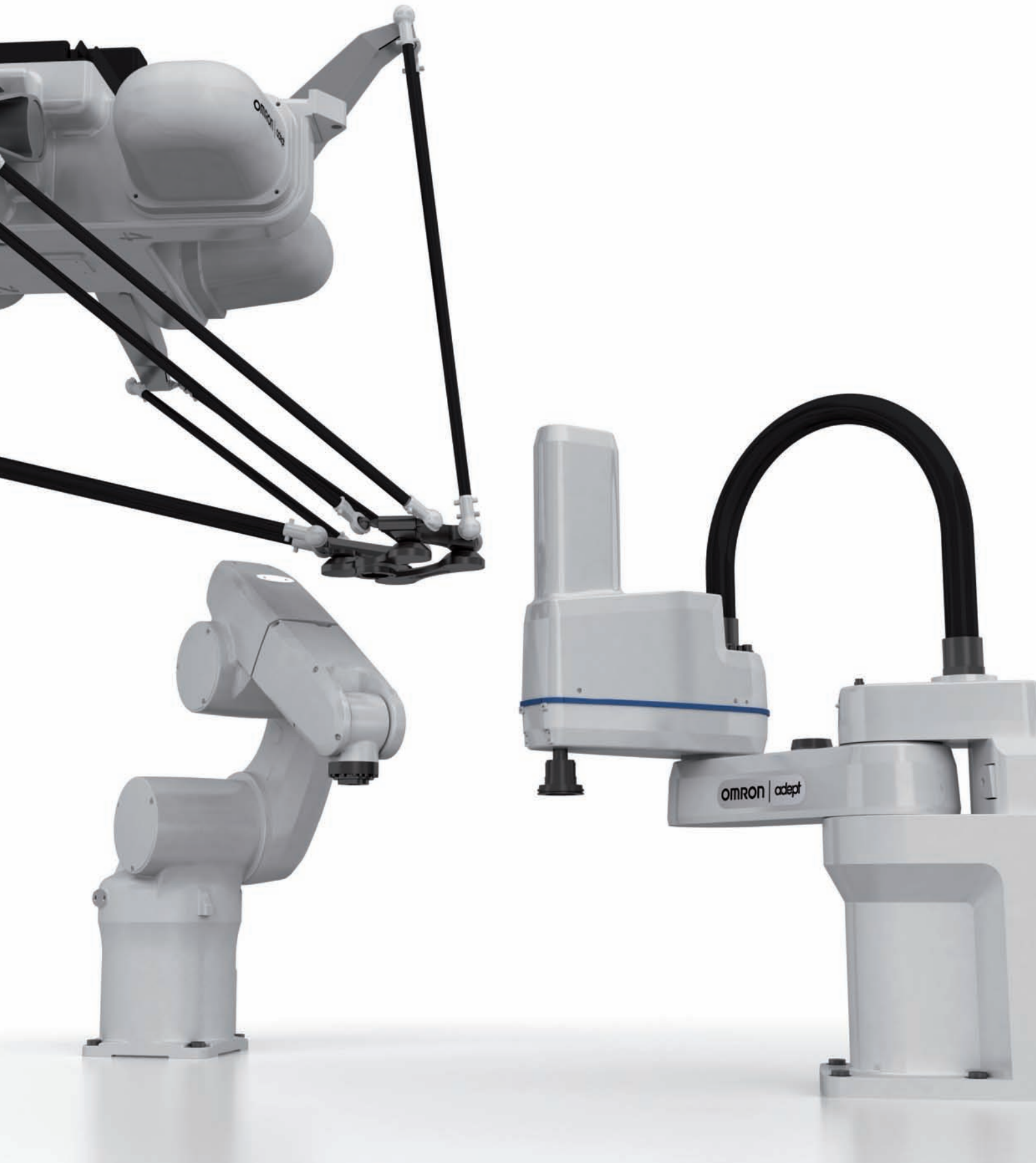


**OMRON**

# Omron Robotic Automation

Complete automation expertise



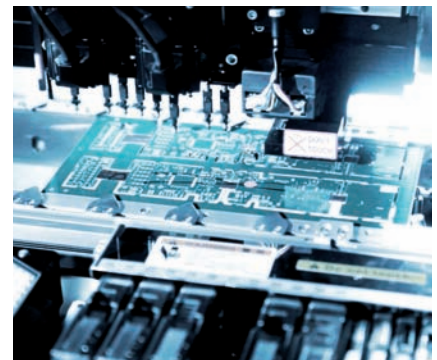
# Omron Robot Solution

## Flexible manufacturing enabled by a seamless integration of Robots and Machine Control

Omron's unique combination of software and control architecture addresses the factory automation challenges from producing a high variety mix of products with short product lifecycles that require rapid production line changeovers.

The common controls, integrated software architecture and development environment meet current and future needs for ease of process design, flexible operation and predictable maintenance. The flexibility and agility of our solutions is ideal for industries such as *Food and Beverage, Automotive and Electronics*.

- ✓ **Rapid changeover enabled** by easy to use software - automatically generate code.
- ✓ Application specific solutions for **Packaging** and **Assembly** operations.





# Complete automation expertise

Experience matters

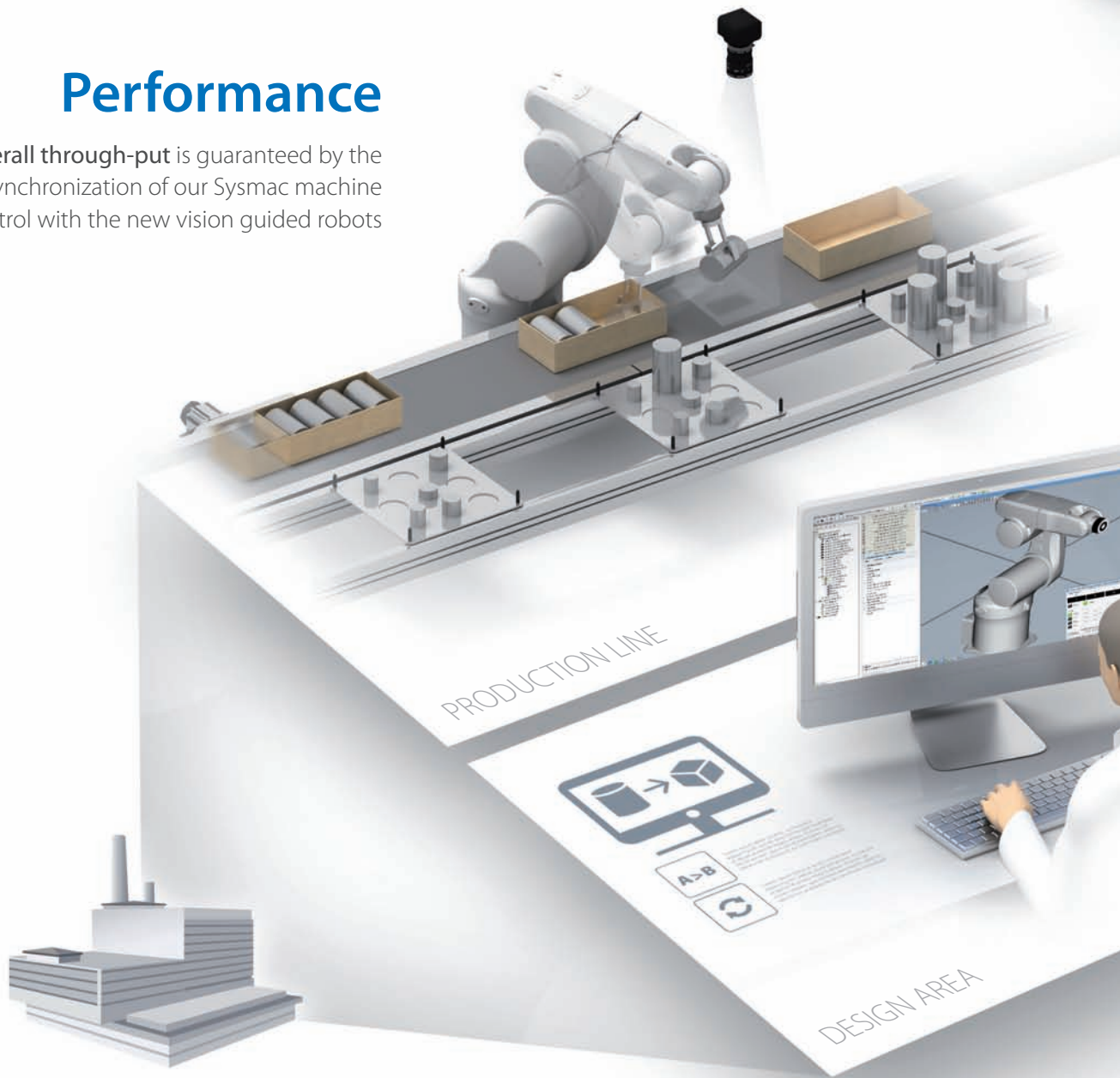


# The Omron's 5 benefits

The new Omron Robotic Automation enhances the most demanding manufacturing lines providing **5 main benefits**

## Performance

Overall through-put is guaranteed by the synchronization of our Sysmac machine control with the new vision guided robots



Smart Factory

An isometric illustration of a modern manufacturing and data management environment. In the upper left, a white delivery truck is shown with its rear door open, revealing a large wooden crate inside. Below the truck, a robotic arm is visible, partially enclosed in a wooden box. In the center, two men are interacting with a large, transparent digital display. One man stands and points at the screen, while the other sits in a modern office chair, gesturing towards the display. The display itself shows various data visualizations, including a bar chart, a pie chart, and a line graph. To the left of the men, there are two server racks. The floor is marked with the text 'DATA MANAGEMENT' in a large, light blue font. The overall scene is clean, bright, and futuristic, emphasizing the integration of physical manufacturing and digital data management.

## Quick Delivery

5 huge automated warehouses to provide parts in short time.

## Simple

Shortening the startup and maintenance time by the integrated software environment that controls the line.

## Efficient

All the production data coming from robots, controllers, sensors are collected, shared and managed to **optimize the productivity.**

## Flexible

Software assisted system generates automatically the new programming code.



# Complete Automation Solution

for factory automation and machine control

200,000 products

## Control

- Machine controller, HMI and I/O
- IoT by connecting a controller directly to database.



## Robots

- Parallel, SCARA and Articulated robots for Packaging and Assembly applications



## Vision

- Quality control and inspection
- Product position and orientation detection for Pick&Place applications







**80 years** designing and manufacturing automation solutions

## Motion

- Rotary servo motor, linear motor and Frequency inverter



## Safety

- Complete lineup: Safety sensors, Controllers and Actuators



## Sensing

- Photoelectric, Inductive, Rotary encoder, Mark/Colour, Fiber optic and Mechanical sensors



A close-up photograph of an Omron Adept robotic arm in a factory environment. The arm is white with a black corrugated cable running along its side. It is positioned over a blue plastic bin. The background is slightly blurred, showing other industrial equipment.

# Feasibility study

by experts in Automation

OMRON | adept



# Global collaborative network

Machine Automation and Robotics expertise provided by an **unique and global team.**



40 COUNTRIES

150 LOCATIONS

3,000 APPLICATION ENGINEERS

Give us a call / Send your sample / Our experts can study your application

We can evaluate all the aspects concerning the most demanding applications. Robotics handling, Vision inspection, Motion and Safety functions can be simulated and tested in our robotics and automation centers supporting you around the world.



Simulations



Test with real products



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