

Omron robotic solutions

Complete automation expertise



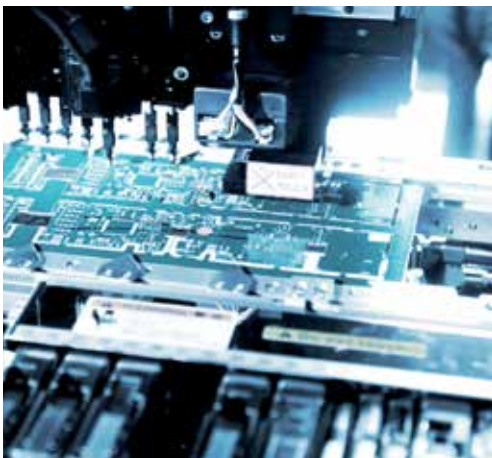
Integrated robotics solution



Flexible manufacturing enabled by a seamless integration of robots and machine control

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

Fully integrated control, software architecture and development environment meet current and future needs for 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** with easy to use software that automatically generates code.
- ✓ Application specific solutions for **packaging** and **assembly** operations.

A close-up, low-angle shot of a white Omron Adept robotic arm. The arm is positioned diagonally across the frame, with its joints and cables visible. The background is a blurred industrial setting with blue structural elements. The Omron and Adept logos are clearly visible on the arm's body.

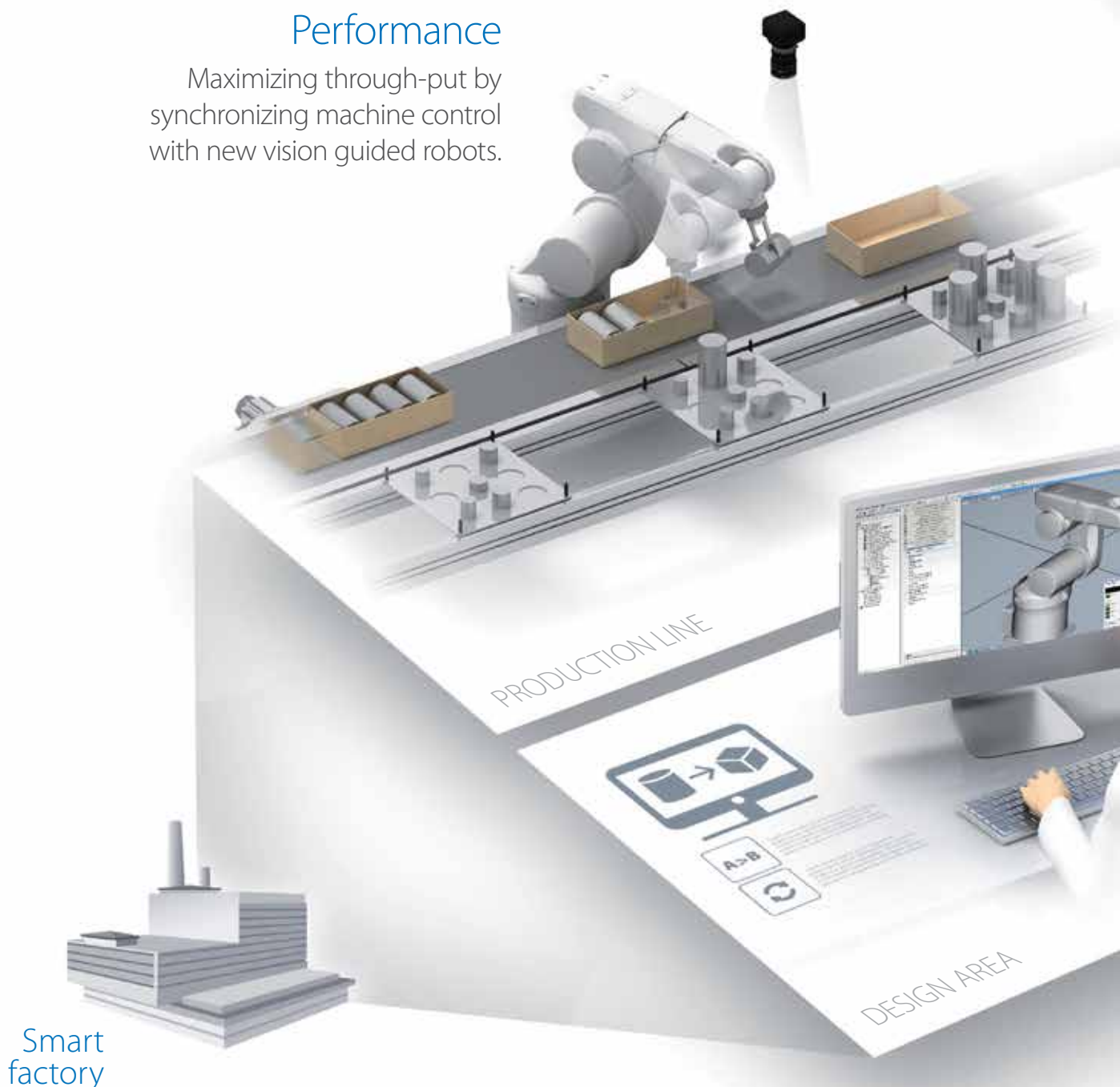
omron | adept

Complete automation expertise
80+ years of manufacturing automation solutions

Robotic solutions for your most demanding applications

Performance

Maximizing through-put by synchronizing machine control with new vision guided robots.





Quick delivery

5 automated warehouses
to provide parts quickly.

Simple

Shorten startup and
maintenance time with our
integrated software environment.

Efficient

Optimize productivity and efficiency
by utilizing data collected from
robots, controllers and sensors.

Flexible

Automatically generate new
application specific programming
code with our advanced ACE software.

The complete solution for factory automation and machine control

Over 200,000 products available



Control

- Machine controller, HMI and I/O
- Direct database connection for IIoT applications



Robots

- Parallel, SCARA and articulated robots
- Easy to use software to automatically generate code
- ePLC program the robot using common PLC language



Vision and measurement

- Quality control and inspection
- Product position and orientation detection for pick and place applications



Motion

- Rotary and linear servo motors
- Frequency inverters



Safety

- Complete safety lineup
- Light curtains, laser scanners, e-stop, door switches, safety mats and programmable safety controllers



Sensing

- Photoelectric, inductive, rotary encoder, mark and color, fiber optic and mechanical sensors

OMRON | adept

Feasibility studies
by leading experts in automation

Global collaborative network

Machine automation and robotics expertise provided by your global partner



40 Countries

150 Locations

3,000 Application Engineers

Give us a call. Send us your sample.

Our knowledgeable experts are prepared to support your application.



Simulations





Testing with real products



Real cycle time analysis

Let us help you with all aspects of your most demanding applications and provide a complete solution. Robotics, vision, motion and safety functions are simulated and tested in our global robotics and automation centers. We are ready to support you and all of your automation needs.

Robot lineup

Industry segment				Parallel robots	
Food and Beverage	Digital	Automotive			
			Application	Hornet 565	Quattro 650/800
			Primary packing	◆	◆
			Secondary packing	◆	◆
			Aligning, packaging	◆	◆
			Palletizing		
			Screw fastening		
			General assembling		
			Deburring and polishing		
			Dispensing		
			Measuring, inspection, testing		◆
			Machine tending		
			Dispensing		
			Measuring, inspection, testing		
			Material handling		
			Mounting	Ceiling	
			Payload capacity	3kg (8kg ^{*1})	6kg (15kg ^{*2})
			Radius	565mm	650 - 800mm
			Reach	---	---
			Position repeatability	±0.10mm	±0.10mm

*1. Without rotation axis
*2. Quattro650 using P30



SCARA robots			Articulated robot
			
Cobra 350	eCobra 600/800	eCobra 800 Inverted	Viper 650/850
◆	◆	◆	
◆	◆	◆	◆
	◆	◆	◆
◆	◆	◆	◆
◆	◆	◆	◆
◆	◆	◆	◆
◆	◆	◆	◆
◆	◆	◆	◆
◆	◆	◆	◆
◆	◆	◆	◆
◆	◆	◆	◆
Table, Floor		Ceiling	Table, Floor, Ceiling
5kg	5.5kg	5.5kg	5kg
---	---	---	---
350mm	600 - 800mm	800mm	653 - 855mm
±0.015mm	±0.017mm	±0.017mm	±0.02 - 0.03mm



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- Solid State Relays

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- Programming & Configuration • Runtime