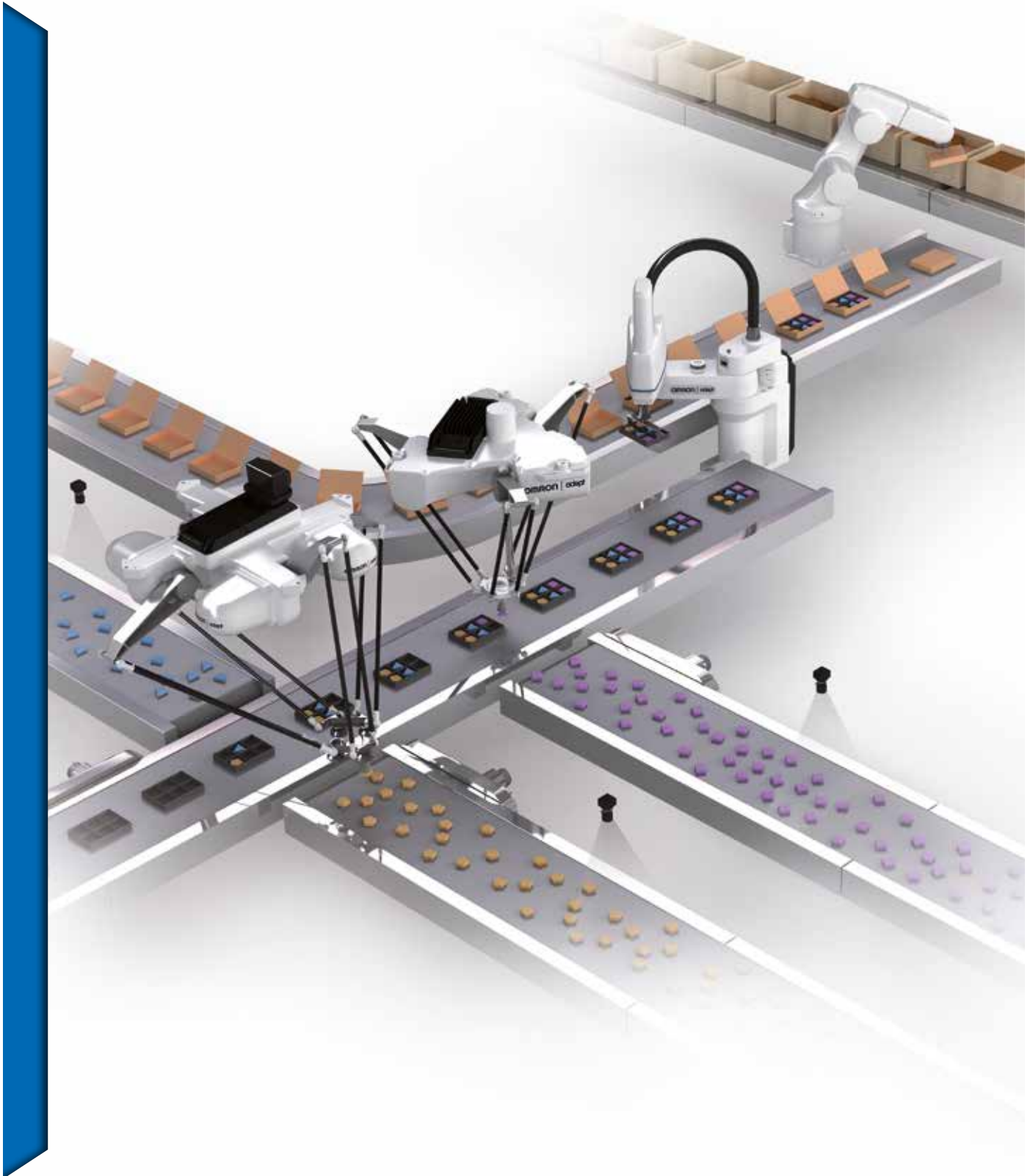


# Robotic Automation

## Industrial Robots Overview



# 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

## Quick Delivery

5 huge automated warehouses to provide parts in short time.

## Simple

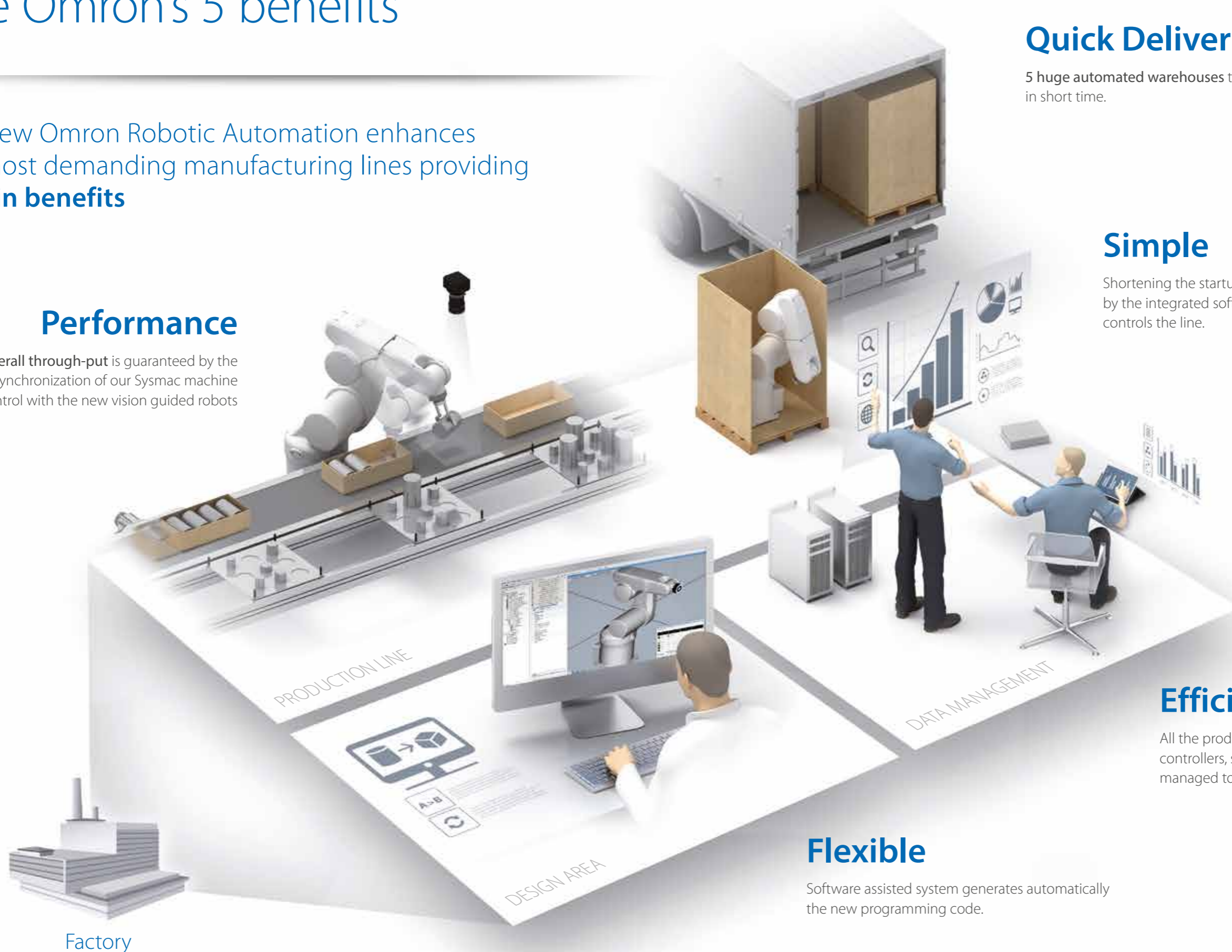
Shortening the startup and maintenance time by the integrated software environment that controls the line.

## 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.



Factory

# Industrial robots - 49 models in 3 categories - provide unique solutions



## Manufacturing site innovation by using robots for various applications

Omron offers robotic automation solutions for applications from cutting-edge production facilities to manual operation processes by using our wide variety of control devices and integrating robotics into automation.



### Parallel robots

The Hornet and Quattro are parallel robots ideal for use in the food and beverage, pharmaceutical, and healthcare industries. The Quattro that is a four-axis parallel robot with a high payload capacity achieves high speed and high precision.

### Feature

- The servo amplifier and controller are fully embedded into the robot, reducing wiring and saving valuable floor space

Hornet 565  
Quattro 650/800



Cobra 350  
eCobra 600/800  
eCobra 800 Inverted

### SCARA robots

High-performance four-axis SCARA robots are ideal for mechanical assembly, material handling, packaging, machine tending, and screw driving. Floor or overhead mounting models are available.



Viper 650/850

### Articulated robots



Six-axis articulated robots are ideal for mechanical assembly, material handling, packaging, and palletizing.



### Automation Control Environment (ACE)





All-in-one software features a simulation function, providing an effective way to deploy applications. ACE provides a host of innovative features that allow you to increase productivity while streamlining configuration setup.

# Robot Lineup

Industry			Recommended process and application	Parallel robot	
Food & Beverage	Digital	Automobile			
			Primary packing	●	●
			Secondary packing	●	●
			Aligning, packaging	●	●
			Shipping and receiving (palletizing)		
			Tightening units		
			General assembling		
			Deburring and polishing		
			Sealing		
			Measuring, inspection, testing		●
			Resin molding		
			Press operation handling		
			Machine loading		
			Sealing		
			Measuring, inspection, testing		
			Material handling		
			Mounting	Inverted	
			Payload capacity	3 kg (8 kg *1)	650: 6 kg (15 kg *2) 800: 4 kg (10 kg *2)
			Radius	565 mm	650 to 800 mm
			Reach	---	---
			Position repeatability	±0.10 mm	±0.10 mm

\*1. without rotation axis

\*2. Quattro using P30

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

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OMRON EUROPE

 +31 (0) 23 568 13 00

 [industrial.omron.eu](http://industrial.omron.eu)

**Austria**

Tel: +43 (0) 2236 377 800  
[industrial.omron.at](http://industrial.omron.at)

**Belgium**

Tel: +32 (0) 2 466 24 80  
[industrial.omron.be](http://industrial.omron.be)

**Czech Republic**

Tel: +420 234 602 602  
[industrial.omron.cz](http://industrial.omron.cz)

**Denmark**

Tel: +45 43 44 00 11  
[industrial.omron.dk](http://industrial.omron.dk)

**Finland**

Tel: +358 (0) 207 464 200  
[industrial.omron.fi](http://industrial.omron.fi)

**France**

Tel: +33 (0) 1 56 63 70 00  
[industrial.omron.fr](http://industrial.omron.fr)

**Germany**

Tel: +49 (0) 2173 680 00  
[industrial.omron.de](http://industrial.omron.de)

**Hungary**

Tel: +36 1 399 30 50  
[industrial.omron.hu](http://industrial.omron.hu)

**Italy**

Tel: +39 02 326 81  
[industrial.omron.it](http://industrial.omron.it)

**Netherlands**

Tel: +31 (0) 23 568 11 00  
[industrial.omron.nl](http://industrial.omron.nl)

**Norway**

Tel: +47 22 65 75 00  
[industrial.omron.no](http://industrial.omron.no)

**Poland**

Tel: +48 22 458 66 66  
[industrial.omron.pl](http://industrial.omron.pl)

**Portugal**

Tel: +351 21 942 94 00  
[industrial.omron.pt](http://industrial.omron.pt)

**Russia**

Tel: +7 495 648 94 50  
[industrial.omron.ru](http://industrial.omron.ru)

**South Africa**

Tel: +27 (0)11 579 2600  
[industrial.omron.co.za](http://industrial.omron.co.za)

**Spain**

Tel: +34 902 100 221  
[industrial.omron.es](http://industrial.omron.es)

**Sweden**

Tel: +46 (0) 8 632 35 00  
[industrial.omron.se](http://industrial.omron.se)

**Switzerland**

Tel: +41 (0) 41 748 13 13  
[industrial.omron.ch](http://industrial.omron.ch)

**Turkey**

Tel: +90 (216) 556 51 30  
[industrial.omron.com.tr](http://industrial.omron.com.tr)

**United Kingdom**

Tel: +44 (0) 1908 258 258  
[industrial.omron.co.uk](http://industrial.omron.co.uk)

**More Omron representatives**

[industrial.omron.eu](http://industrial.omron.eu)