

openROBOTICS

Drive the robot with your
machine control



openROBOTICS is a cooperation between
the companies Comau and B&R

open
ROBOTICS
makes the difference in integration



Why should you use two controllers ?

Drive the robot directly with your B&R machine control and profit from the benefits of a simplified engineering. openROBOTICS dispenses with the robot control and enables you to fully integrate the robot mechanics into the engineering environment.

openROBOTICS is the result of an innovative collaboration between Comau and B&R and serves the increasing demand of a seamless integration of robotics into the machine. Integration and connectivity are important elements for the factory of the future.

“With openROBOTICS we are already providing for a lot of Robotics applications our customers an innovative and beneficial approach that complies with the trends behind Industry 4.0.

For me it is the industrial revolution driven by digitalization, connectivity and the analysis of data. It's the consequent networking of processes and tools that provides flexibilization of the production.”

Tobias Daniel, Head of Sales and Marketing at Comau Robotics

openROBOTICS makes the difference in integration.



openROBOTICS combines the competencies of two leaders in industrial automation and experts in their fields: B&R and Comau



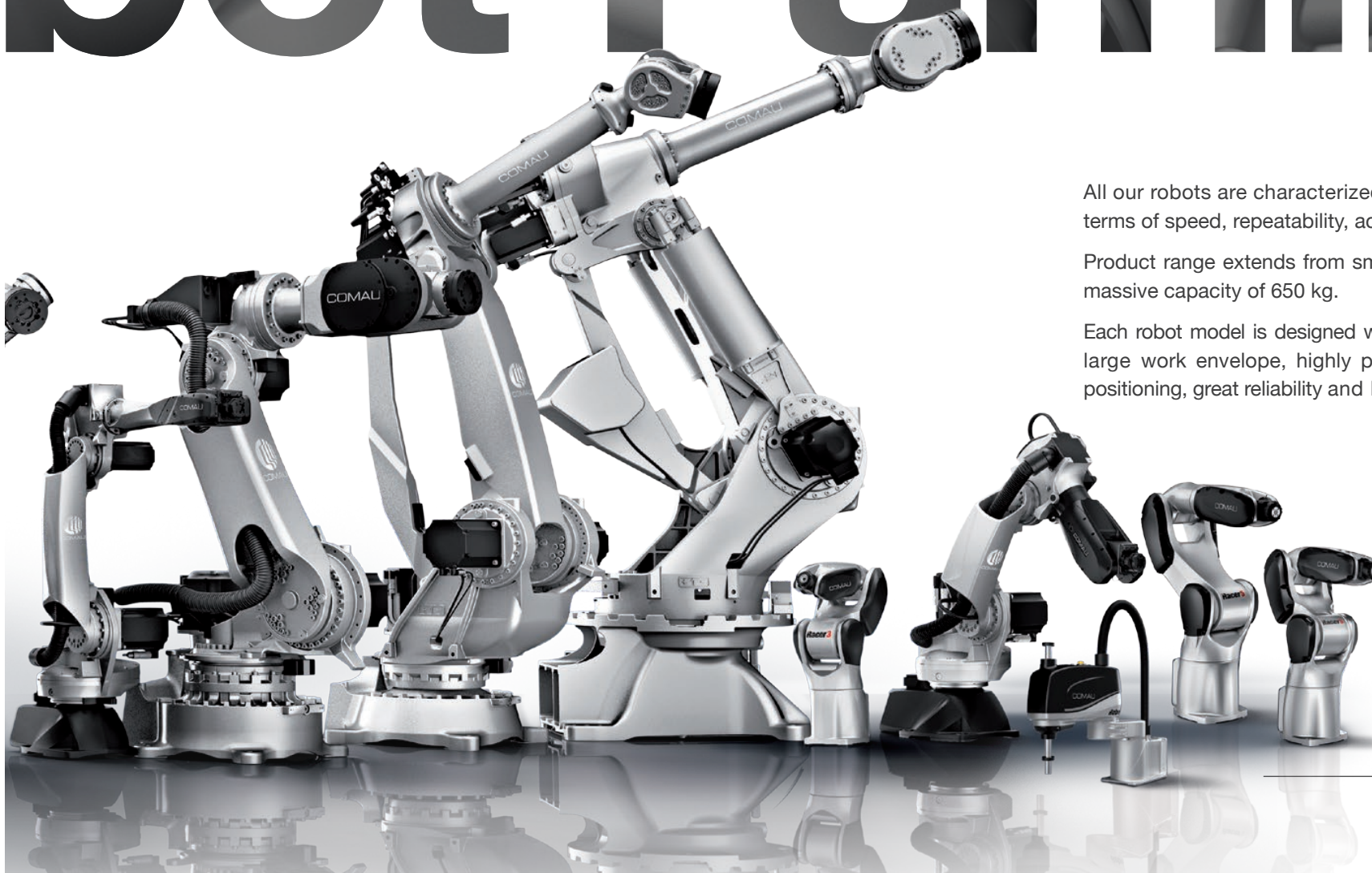
Our Ro

**The Robot team available
for our clients is wide,
well known and appreciated**

We provide scara and articulated industrial robots suitable for any application and special robots for spot and arc welding, palletizing or press to press automation.



bot Family



All our robots are characterized by high performance in terms of speed, repeatability, accuracy and flexibility.

Product range extends from small payload robots to the massive capacity of 650 kg.

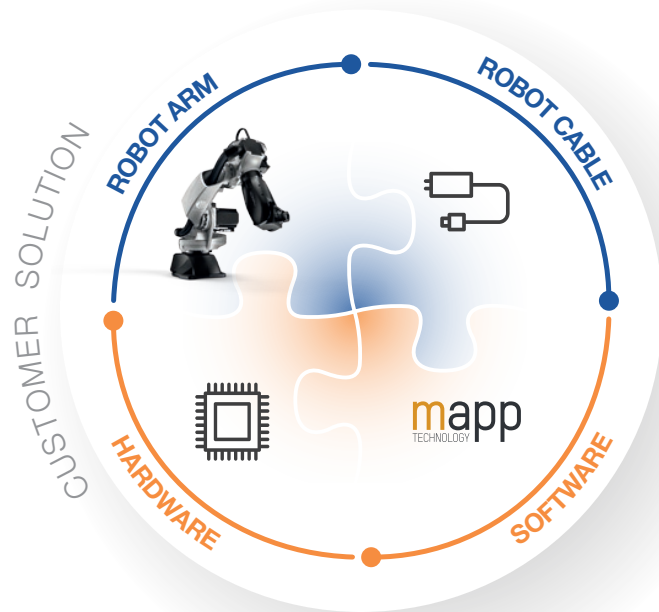
Each robot model is designed with a reduced footprint, large work envelope, highly precise movements and positioning, great reliability and low maintenance costs.



robotics.comau.com

100 % integrated solution

COMAU and B&R provide a tailored solution for your needs, in order to ensure maximum robot integration in automated systems.



- COMAU supplies the robot arm and robot cables, which are completely ready to be driven directly by your machine's Control Unit
- B&R provides the automation components and the software for your machines

THE REVOLUTION IN ROBOTICS AUTOMATION

- Simplified robot integration
- Lower training effort
- Reduced total cost of ownership
- Easier error tracking
- Higher speed
- Modular and scalable

Our fully integrated robots are under your control

Drive the robot with your machine control

- One common HMI and programming language drives the robot and the machine
- Easy robot programming with B&R *mapp SW architecture*
- No need for robotic experts - the robot becomes an integrated part of your machine

Easy diagnostics

- Diagnostics via PLC
- Central data management to grant the highest integration level

Unmatched performance

- The robot and machine are fully synchronized

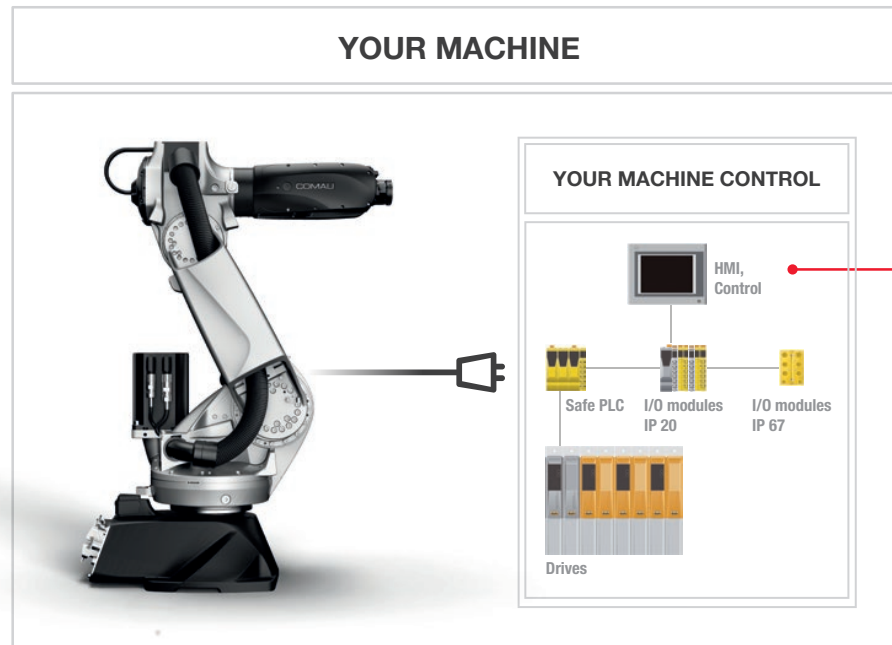
Energy efficiency

- Energy savings - up to 50%
- The robot and machine drives are connected via a common DC-bus

Space saving

- One single controller for the machine and robot
- Reduced cabinet space
- No duplicated hardware components

openROBOTICS / How it works



Robot cable packages (optional)

1. ROBOT CONNECTION PACKAGE (5, 10, 15, 20, 30, 40 m)

- QTY 2 cables (motors + encoders) with Harting interface on both sides, plus connectors for the machine cabinet
- QTY 1 fieldbus cable
- QTY 3 internal machine cabinet cables L = 1.5 m

2. AUXILIARY AXES CONNECTION PACKAGE (5, 10, 15, 20, 30, 40 m)

mapp technology

mapp eliminates recurring programming tasks for developers by providing preconfigured blocks that are easy to use and already extensively tested - so-called basic functions. Programmers can concentrate on their main task: implementing machine or system processes in the application software.

mapp blocks are seamlessly integrated into B&R's Automation Studio. What sets mapp function blocks apart is that they are extremely easy to configure and relieve the developer of having to program every single detail. They make it possible, for example, to put multi-axis systems coupled with cam profiles, electronic gears or various robot kinematics into operation in a matter of just a couple hours.

Lower maintenance costs play a significant role in increasing efficiency. This is the benefit of using proven mapp blocks that are fully maintained by B&R. Complete documentation and help functions round off the mapp toolbox and B&R is always available for advanced consultation and support.

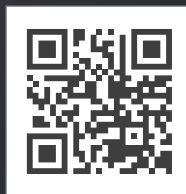


Ready for



the future





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Made in Comau