

Integrated Robotics

openROBOTICS



openROBOTICS is a cooperation between
Comau and B&R

open
ROBOTICS

Drive the robot with your machine control

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 cables, which are completely ready to be driven by your machine's control unit directly

B&R provides the automation components and software for your machines

The revolution in robotics automation

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

Comau robots have become an organic part of customers' machines, bringing flexible, efficient and smooth integration.

Our fully integrated robots

Under your control

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

Effective diagnostics

- Diagnostics via PLC
- Central data management grants the highest integration level

Unmatched performance

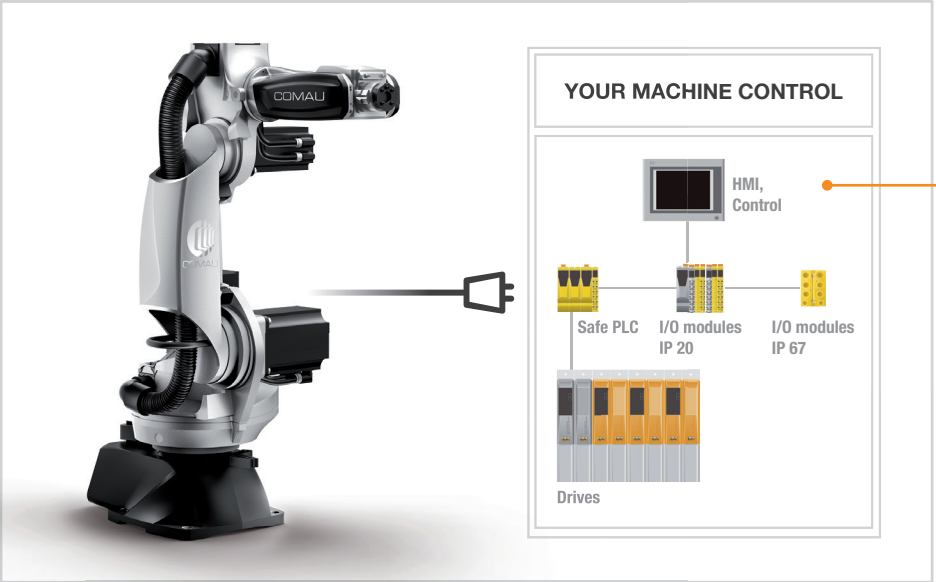
- The robot and machine are fully synchronized

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



That's smart factory technology

- **Implementation-endless possibilities:** customers can have many different hardware configurations.
- **Homogeneous network:** sometimes production plants have a collection of subnetworks that are interconnected with different degrees of efficiency. The Industry 4.0 principles recommend developing a single homogeneous network that incorporates every machine. This is a guarantee of quality and production efficiency.
- **Seamless traceability:** everybody does functional testing, but today the real value is to work with complete traceability for every single product.
- **Real-time communication and feedback:** communication throughout the networked factory works in every direction. Every step of production gives immediate feedback and every machine can put the answer it receives into immediate action.

COMAU openROBOTICS is ready for the future, now.

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.



Local distributor

NOTE: Depending on the robot arm model of your choice, working areas, repeatability and axes speed limitations might differ from the values that are declared in case of standard supply (robot arm and Comau control unit). **Please check any possible discrepancy with B&R.**

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Made in Comau