



Who are we?







Industry experts in automation



Founded in 1968



Active worldwide



In private ownership



250 million euro turnover



87% export

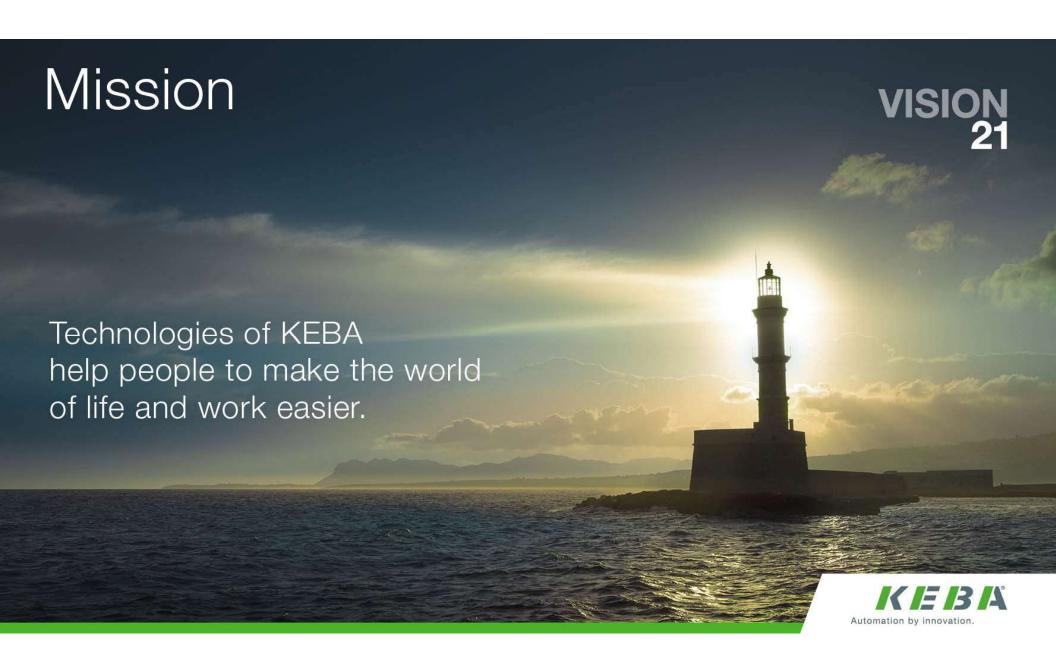


20% R & D rate



1100 employees







50 years experience in electronic and software

- System Consulting
- Software development
- Hardware development

- Field quality
- Own Produktion
- Customer support network



Flexible production





Industrial automation

Partnership

Innovation

Quality







Customers who trust KEBA

















































pac automation











YIZUmI伊之密













































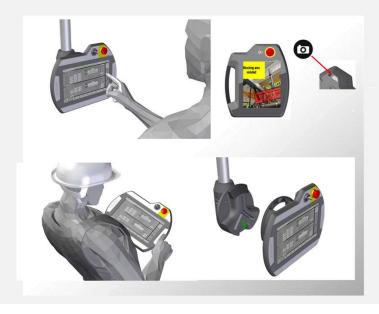


Innovative and easy to use





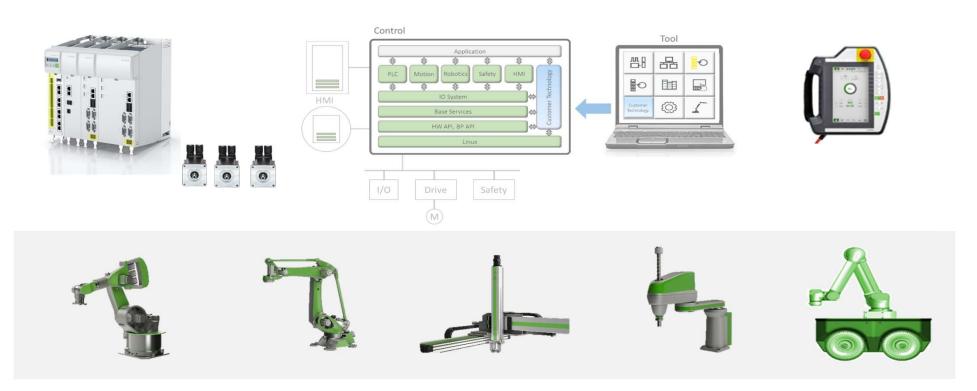








KeMotion – total robotic solution





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KeMotion – easy and fast

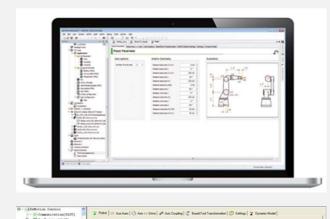
Easy robot configuration

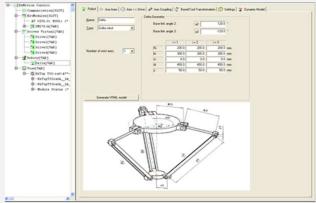
in dimension, axis and mechanical couplings.

Easy setting and program generating

Simulation tool









Precise movement and combination

Dynamic robot model

Ready to use Libaries

Online calculation

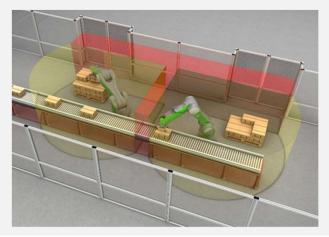
PLC + Motion

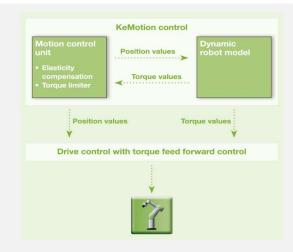
Codesys + PLC open

Wizards

Consideration of elasticity





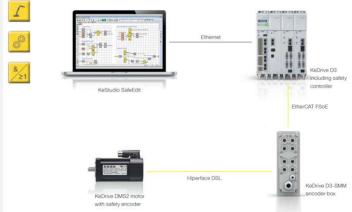


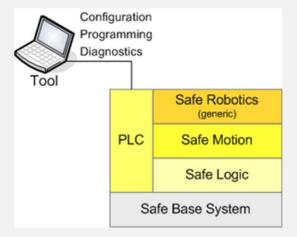


KeMotion – Safety

- Safe robot standstill
- Safely limited Cartesian speed
- Safe zones, safety limited Cartesian position
- Safe tool orientation
- Safe Changing Unit and Safe Tool









KeMotion for a wide range of applications

















Open Source is not new to us















KEBA - ROS

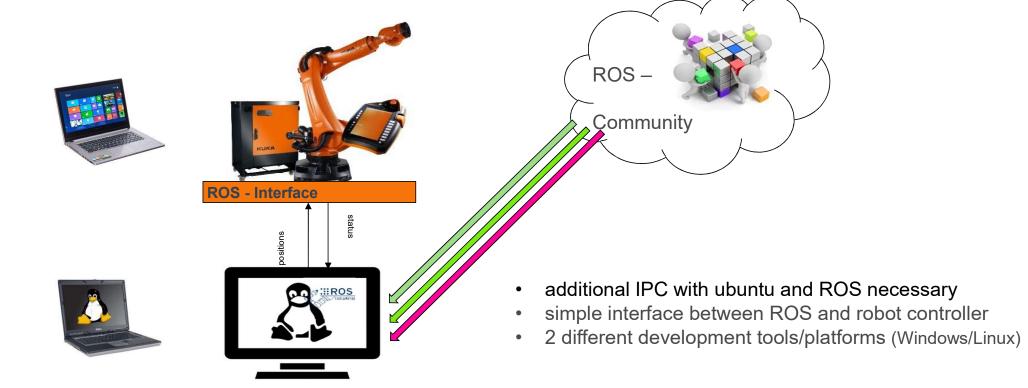








Standard market solution





Unique integration

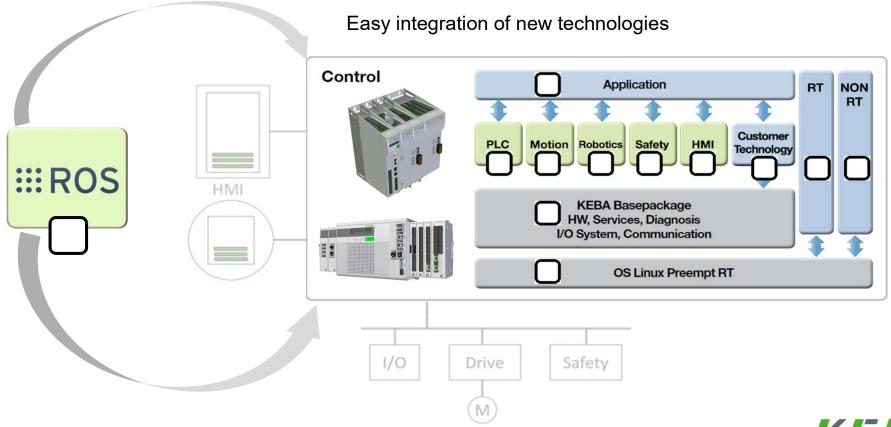


1 Tool + 1 Control unit



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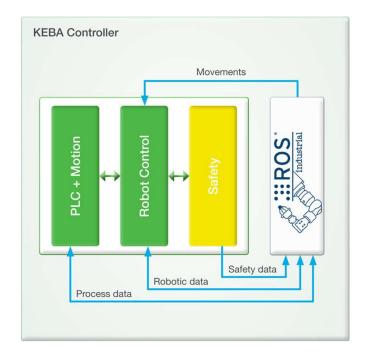
Open control architecture







Basics



Deliver a versioned collection of the main ROS packages

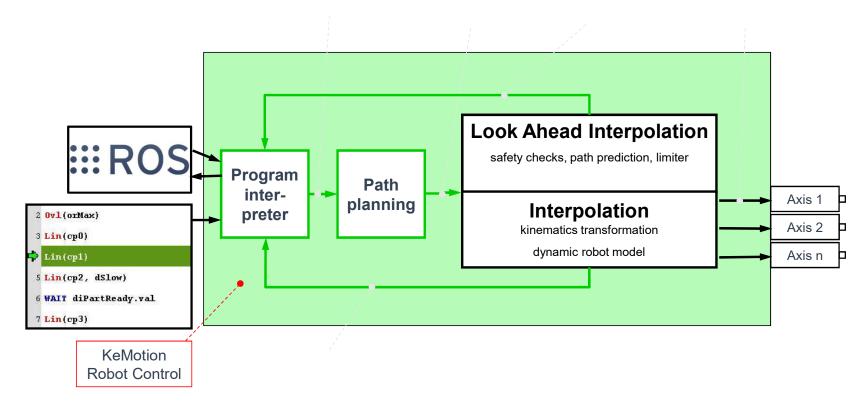
✓ ROS Softwareunit

Offer a possibility to move the robot out of ROS

✓ Deliver an interface to our Robot Control

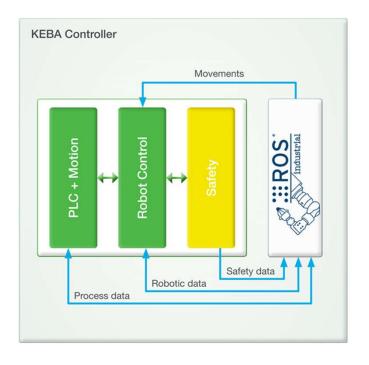


Integration of ROS





Additional features



Offer a possibility to trigger PLC applications out of ROS

✓ Establish an ROS-interface to our PLC variable-tree

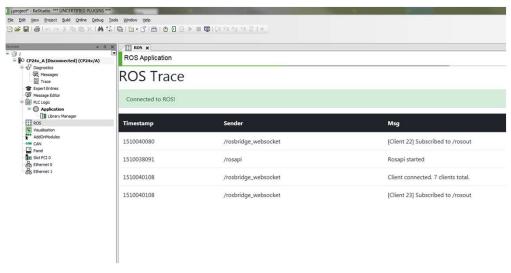
Offer an easy to use "rmi_driver"

- √ support Cartesian movement / positions
- ✓ Muli robot support
- ✓ Plugin-based to easily add commands
- Access to all robot controller's features with flexible messages

Source: https://github.com/smith-doug/rmi_driver



Additional features

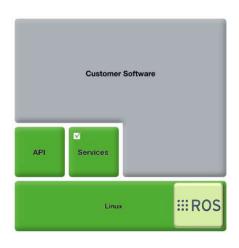


Offer a possibility to upload an application to several units

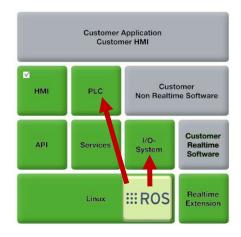
✓ Develop a plugin for our PLC configuration Suite (KeStudio)



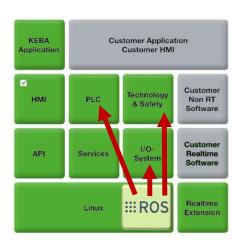
Integration Levels



- ROS core on IPC
- No interfaces



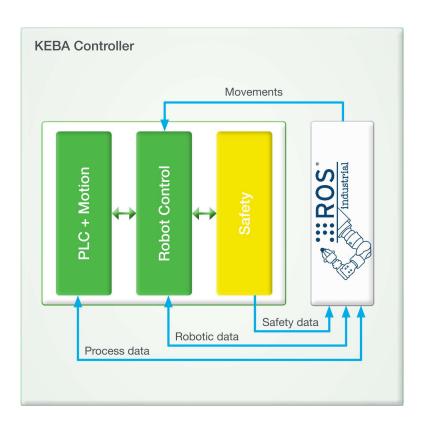
 ROS interface to basic system



- Full integration
- ROS with KeMotion technology features



KEBA solution





- all in one plattform
- PLC, Robotik, Safety, ROS
- 1 development tool for robotics and ROS
- no additional ROS PC
- full access from ROS to KEBA controller





