EASY-ROB™
Robotics Simulation Kernel

„The Robotics Booster for your Application“

You need professional robotics functionality?
The EASY-ROB™ Robotics Simulation Kernel is the right answer.

Robot Kinematics
- Forward and inverse transformation
- Robot Libraries from ABB, KUKA, Fanuc to Universal Robots and more
- Positioner, devices and tools are available in an extensive library

Advantages
- Integration in technology-based software solutions
- Bidirectional control of the Kernel
- 100% Robotics Know-How available
- Robot Libraries
- Motion planning and -execution
- Collision detection with tolerances
- 3D Visualization performed by Host-Application
- Available on Windows® as 32- and 64 Bit Library

Interpolation: Motion planning and -execution
- Motion types: PTP, LIN, CIRC, SLEW
- Jerk free and phase synchronous velocity profile
- Tool- and work piece guided movement (external TCP)
- Track Motion (LVA)
- Conveyor Tracking
- Tracking Windows (Boundary Up & Down, Part Detect)
- Synchronization with external axes
- Wait
- Automatic reduction of speed, due to singularity
- Cycle time estimation

Integration examples
- Offline-Programming system Famos robotic®, carat robotic GmbH
- Virtual Measuring Room (VMR), ATOS Professional, gom mbH
- Laser beam hard facing SKM-DCAM, S.K.M Informatik GmbH
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OEM Application: Technology-based software with its own 3D Visualization

Robot Libraries, user-defined kinematics

Create your own robots with EASY-ROB™ Kinematics

System requirements
- MS-Windows® 7 and 8, 32- und 64-Bit

Integration
- Detailed doxygen Documentation
- Method class ERK_CAPI
- Programming examples Kinematics and Interpolation for Microsoft® Visual Studio C++ Compiler development environment

Support
- Support for individual integration