

EASY-ROB™ Kernel

"The Robotics Booster for your Application"

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

Robot Kinematics

- Forward and inverse transformation
- Robot libraries from ABB via Fanuc to Universal Robots and many more
- Positioner, devices and tools are available in an extensive library
- More than 1000 pieces

Advantages

- Integration in technology-based software solutions
- 100% robotics know-how available
- Robot libraries
- Trajectory planning and -execution
- ToolBox calculation of external axis
- AutoPath™ collision-free path planning
- Collision detection with tolerances
- Available on Windows® 64-Bit DLL

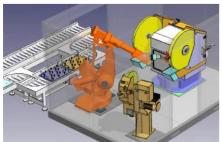
Trajectory planning and execution

- Motion types: PTP, LIN, CIRC, SLEW
- Jerk free and phase synchronous velocity profile
- Tool- and work piece guided movement (external TCP)
- Synchronization with external axes
- Track motion (LVA), conveyor tracking
- Paint shops, tracking windows
- ToolPath (trajectory) definition
- Automatic reduction of speed, due to singularity
- Cycle time estimation

ToolBox - PostProc - AutoPath

- ToolBox individual customization
- PostProc API, creates a robot program from a ToolPath
- AutoPath™ collision-free path planning, use of constraints

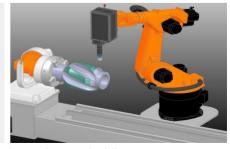
Integration examples



Offline-Programming system FAMOS robotic®, carat robotic GmbH ATOS Professional, GOM GmbH



Virtual Measuring Room (VMR),



Laser beam cladding SKM DCAM, S.K.M Informatik GmbH



EASY-ROB™ Kernel

