

Features:

- Offline programming und simulation of articulated robots
- CAD based generation of trajectories incl. movement commands PTP, LIN, CIRC
- Robots holding the tool as well as the workpiece (exTCP)
- Programming tasks are supported by mathematical functions
- Incl. parameters and signals
- Quick response to design changes
- Large robot library > 400 models
- ABB, KUKA, FANUC, MOTOMAN, Stäubli, Universal Robots
- Positioners, linear tracks and conveyors
- Cycle time estimation
- Detection of collisions, axis limits, singularities, reachability & approachability
- CAD import incl. STEP and IGES
- Multiple robots
- Implementation of technology packages e.g. PaintWare™

Mission:

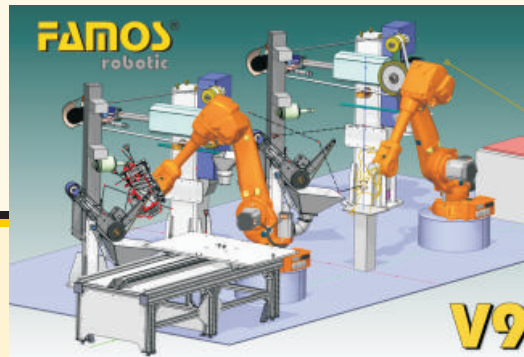
- Economic offline programming
- Reduced commissioning period
- Robot manufacturer independent
- Universal solution for projecting, programming and optimization

Team:

- Developed by the carat robotic innovation GmbH
- System integrator with more than 20 years of experience and more than 500 installed robot cells
- Classical engineering meets software development

Key aspects of activities:

- Surface treatment e.g. grinding, brushing and polishing
- Foundry automation e.g. cleaning and deburring
- Plastic processing e.g. milling and trimming
- Aluminium processing e.g. milling and sawing cross-sections, blocks and covers
- FAMOS robotic® is used inhouse as well as by more than 300 satisfied clients



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FAMOS

robotic

NEW!

20 years
FAMOS robotic®

20 years
successful
programming!

Faster!

CAD Interface / Rendering

- Shorter project load time
- Reduced memory requirement
- Quick duplicating of CAD files or assemblies without reloading
- User defined assemblies
- Assemblies can be reused in other projects
- Remarkable improved performance
- Ergonomic features and handling
- Graphical selection
- Improved rendering pipeline

Use case projecting:

- Reuse of created assemblies in complex simulations with big CAD files

Better!

I/O Simulation

- Robots react on signals
- Robots can wait for signals, which are set by SetDo instructions or sensors
- In- and outputs are connected in a circuit layout
- Graphical editor for connecting signals of different devices
- Signal plotter and monitor
- Position- and time- dependent switching
- Optimization of collision zones

Use case programming:

- Quick and easy avoidance of collisions

Simpler!

Universal Coating Parameter

- Program solution for spraying tasks
- Uniform parameter interface for all spraying and coating applications, especially painting
- Robot manufacturer independent
- These parameters unify the programming of different robot systems
- Visualization based on real data
- Simplified programming and optimization

Use case optimization:

- Flexible deployment
- Reduced training period

