

the cost-efficiency
and flexibility of robots

the ease of programming
of Mastercam

Generate more profit with your robot

Robotmaster generates programs off-line and eliminates lost production time during programming.

Use your robot for short production runs

Robotmaster shrinks programming time from days to hours by generating robot control code directly from CAD/CAM tools.

Deliver closest conformance to design

Robotmaster creates simple or complex robot trajectories accurately without teaching points.

Mold Machining

Polishing

Trimming

Spray coating

Welding

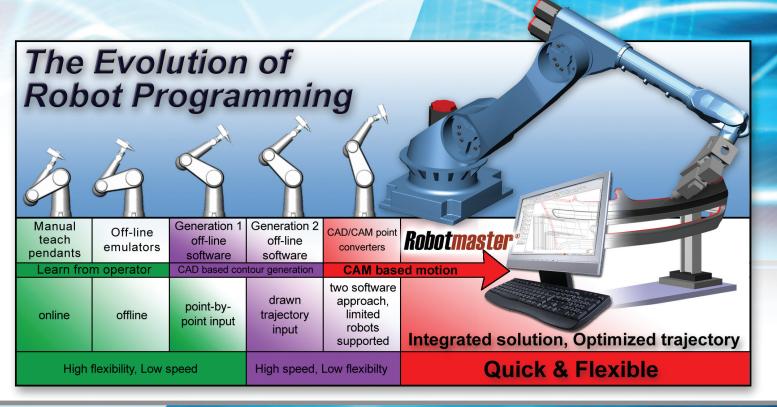
De-flashing

Dispensing

Painting

Grinding

De-burring

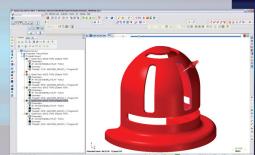


Robot-ready code with Robotmaster®

Robotmaster seamlessly integrates robot programming, simulation and code generation inside Mastercam, delivering quicker robot programming.

STEP 1: Program toolpaths for manufacturing using Mastercam Mill or Router

- same process and tools used for CNC machines
- leverage all of the powerful Mastercam features:
 - Fast geometry creation and extensive editing tools
 - data translators for IGES, Parasolid®, SAT (ACIS solids), AutoCAD® (DXF, DWG, and Inventor TM files), SolidWorks®, Solid Edge®, STEP, EPS, CADL, STL, VDA, ASCII, CATIA®, Pro/E®, and more
 - Associative and feature based toolpath programming
 - Automated toolpath generation
 - Change recognition tools for updating toolpaths for CAD part revisions





STEP 2: Use Robotmaster's extensive configuration library to add your robot as a Mastercam Machine Group

- Choose from FANUC, ABB, MOTOMAN, KUKA, STAUBLI and more
- Enter robot operating parameters like:
 - End of arm tooling
 - Setup (user frame and tool center point data)
 - Motion parameters

STEP 3: Use the graphical interface to fine-tune the parameters by which Robotmaster will translate the 2 to 5 axis CNC toolpath data into a 6-axis robot toolpath

- Set robot configuration for optimal robot posture
- Manage motion between operations
- Precise control of rotation around tool for:
 - Avoiding singularity and joint limits
 - Optimizing joint speeds and ensuring smooth robot playback
- Support for external axes (linear rail or rotary table)





STEP 4: Validate and optimize the program by using Robotmaster's robot simulator

- view robot motion in continuous or step mode, by individual operation or complete toolpath group
- Automatic detection of collisions
- View either robot only or entire manufacturing cell

STEP 5: Robotmaster's post-processor generates the robot-ready program file

- Generate programs in robot native language
- Customizable robot code output
- Multi-file output for managing long programs with limited robot memory

