



CNC Machining using Robots

Incorporating

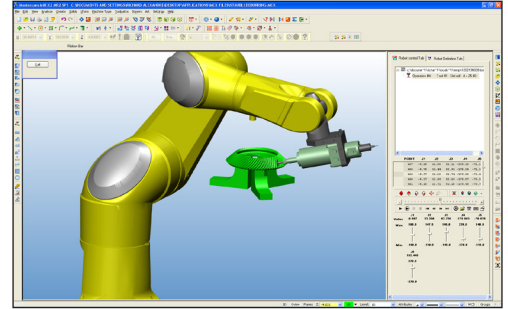
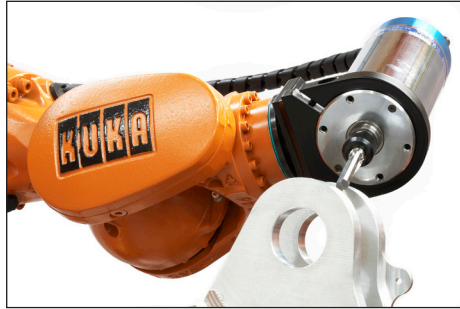
Robotmaster®
CAD/CAM for Robots



Bauromat are providers of manufacturing solutions, integrating system solutions to today's production needs, through years of technical development and partnerships with leading suppliers. Together with 4D Engineering we have developed a range of systems for various applications using MasterCam CAD/CAM software, these are always competitive and using leading edge technology allowing the end user manufacturing advantages.

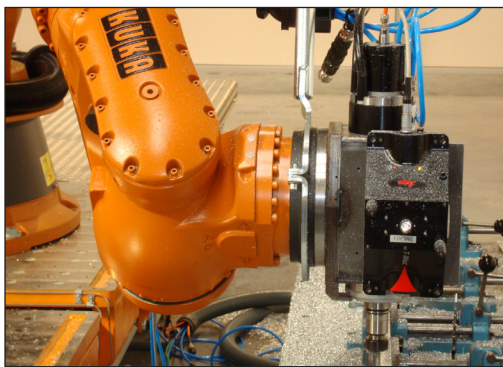
Our systems solutions include:

- Trimming
 - Machining
 - Deburring
 - Welding
 - Polishing/sanding
 - Dispensing
 - Deflashing
 - Paint/Spray Coatings
 - Rail/Rotary
 - Part To Tool
- ...and many more!



Incorporating the Mastercam Software we can provide benefits to the users such as:

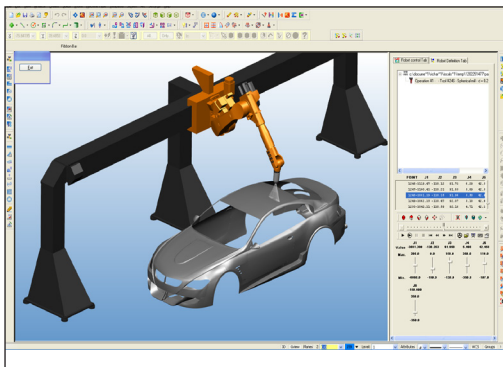
- * Creation of simple or complex robot trajectories accurately without teaching points.
- * Special tools that assist in avoiding singularity and help to work around reach limitations.
- * Single solution compatible with multiple robot manufacturers.
- * RobotMaster works in conjunction with Mastercam - the world's leading CAM system.



Manufacturers can program robots quickly and efficiently, using our integrated systems and Mastercam's industry proven.

CAD/CAM software technology with easy programming of precise tool motion control and quick generation of long tool path trajectories with minimal programmer intervention.

Driven by the growing trend towards lean and flexible manufacturing, robots are progressively replacing conventional dedicated manufacturing units, such as CNC milling machines for certain applications. Robots, once typically perceived as only positioning devices have advanced in accuracy and rigidity, and are now being used increasingly for manufacturing and material removal. Using robots, manufacturers are producing higher quality products at lower cost, and are achieving the speed and flexibility they need to challenge their competitors throughout the world.



Our systems with the use of Robotmaster software allows to program robots with the same flexibility and speed as software used for programming CNC machine tools. Conventional off-line programming solutions are based on either a very cumbersome and tedious point to point programming approach or a post-processor solution that offers very little flexibility and functionality. Currently less than 1% of robots are programmed using CAD/CAM (computer aided design and manufacturing) software because of a lack of mature robot programming solutions. Robotmaster eliminates this barrier.

Bauromat can integrate a wide variety of industry standard robots such as Fanuc, ABB, Stäubli, Kuka, Motoman and many others, using Robotmaster Software that has been developed to be able to easily adapt and programme many different makes of robots in a manufacturing environment.

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