

Welding

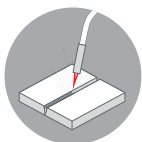


Offline robot programming maximizes your robot's capabilities

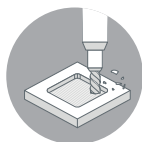
Generate error-free robot programs with powerful and easy-to-use offline programming software.

Reduce programming time and eliminate robot downtime on production runs of all sizes.

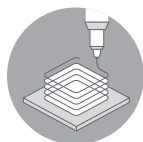
Enable your process experts to unlock your robot's full potential without the need for robotics expertise.



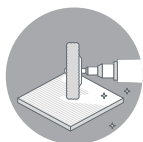
Welding



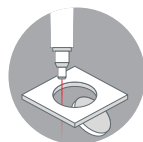
Milling



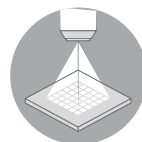
Additive



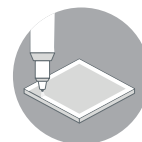
Surfacing



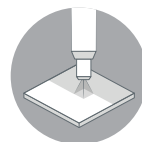
Material Removal



Inspection



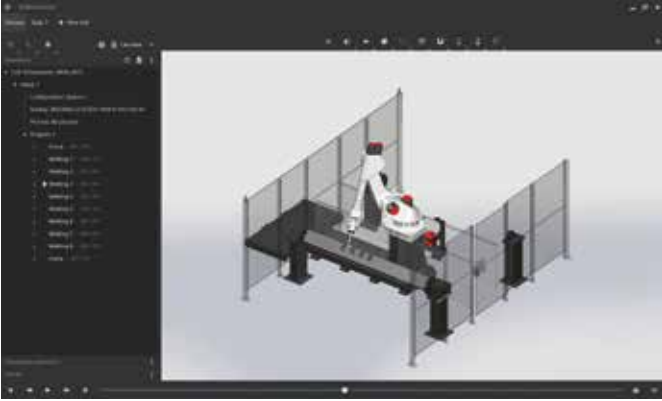
Dispensing



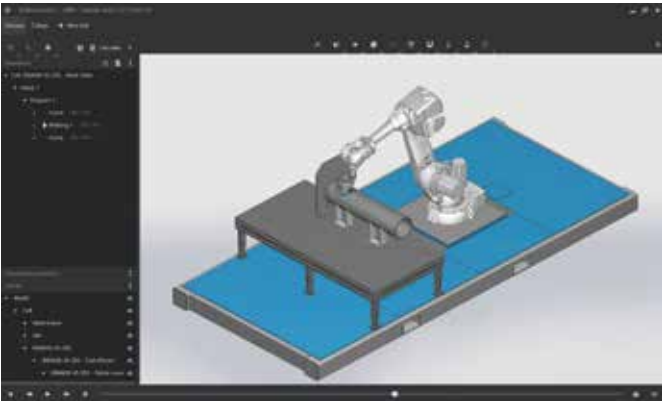
Spraying

Industry challenges

- Subject to human error resulting in inconsistency, waste, and scraps which cuts into profits
- Traditional programming methods require the programmer to have in-depth knowledge of robotics and programming
- Programming a robot via teach pendant requires the operator learn a robot brand-specific programming language and identify and resolve robotic errors manually
- Teach pendant programming can be a very difficult, time-consuming task depending on part complexity and variety



Advanced programming tools for rails and rotary positioners to effortlessly leverage the flexibility offered by external axes



With Robotmaster a full spectrum of welds may be easily programmed using "one click" seam programming

Key advantages of offline programming

- Extend welders' process expertise to multiple workstations by generating robot programs using computer software
- Automatically generate weld toolpaths from the CAD model
- Easily program a full spectrum of welds, from simple to complex, with full control of all welding parameters such as travel speed, arc schedules, seam tracking, touch sensing, and more
- Leverage automatic strategies for entry/exit, navigating constricted areas, and push/pull angles
- Optimize the robot program via automatic torch orientation control to minimize wrist rotation and maximize robot reach
- Easily resolve robotic errors such as singularities, collisions, joint, and reach limit issues within a few clicks
- Maximize profitability and increase the robots return on investment ideal for high-mix, low-volume production
- Invest in a single software solution to program all robot brands
- Easily transfer programs from one weld cell to another without the need to reprogram

Welding applications programmed with Robotmaster

- Arc Welding
- MIG Welding
- TIG Welding
- Laser Welding

For more information, visit: www.robotmaster.com

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898570EN-EU



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