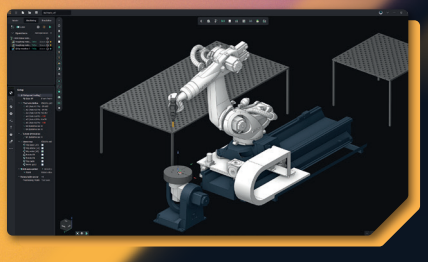
ENCY Robot: A complete offline robot programming solution

The ultimate toolpath calculation, kinematics management, and simulation software for robots



Robot programming workflow



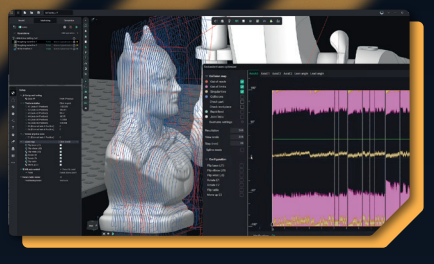
1. Build Your Robotic Cell Digital Twin

With our dedicated app, MachineMaker, you can easily build your own robotic cell digital twin. MachineMaker offers a comprehensive library of components, including robots from all major brands and various elements essential for constructing robotic cells.



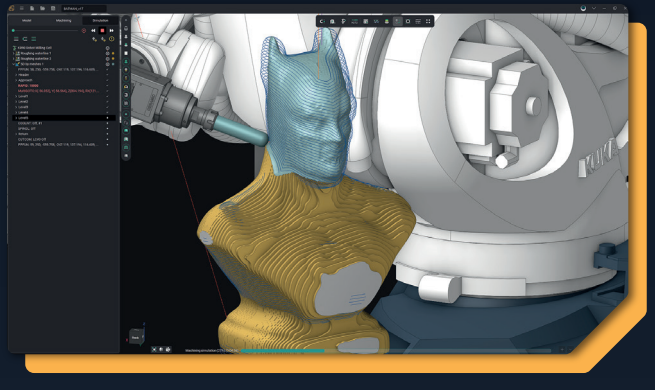
2. Generate toolpaths

Generate optimal toolpaths for various robotic applications, including milling, additive manufacturing, edge-following, cutting, trimming, deburring, painting, welding, pick-and-place, assembly, and polishing.



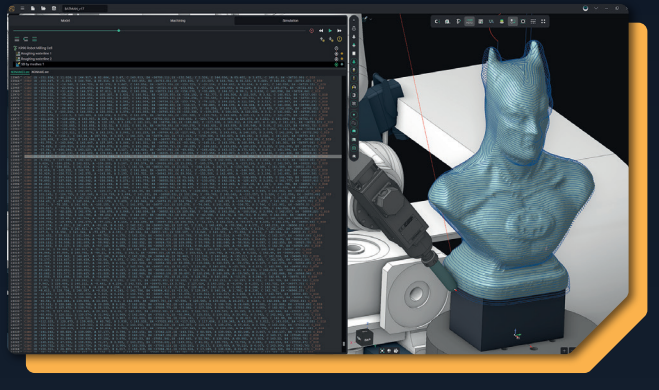
3. Handle Singularities, Collisions, and Reach Zone Limits

Manage robot kinematics to address singularities, collisions, and reach zone limits with specialized tools. Gain full control over singularities, collisions, and the 6th axis redundancy using the powerful robot axis map tool.



4. Simulate full robotic cell

ENCY Robot delivers advanced simulation capabilities, including full robotic cell simulations with all components of the robotic cell such as robots, tables, rails, end effectors, fences, fixtures, and tool magazines.

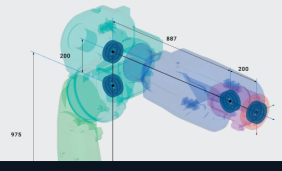


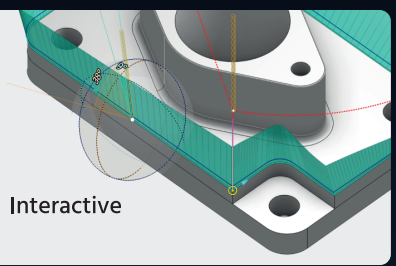
5. Postprocess and verify control program

ENCY Robot comes with generic postprocessors compatible with top robot brands including Kuka, Fanuc, Motoman, ABB, Staubli, Nachi, among others. The ENCY Robot simulation engine can run simulations based on a post-processed control program, allowing users to verify the actual control program before deploying it on a real robot.

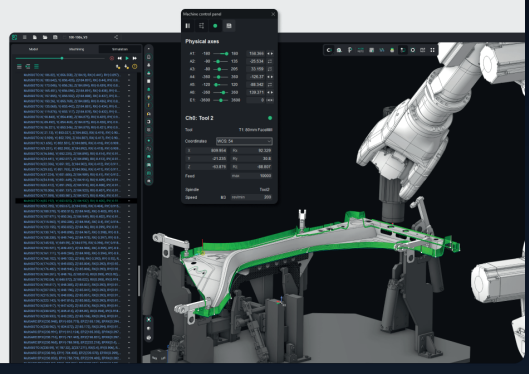
Highlights

Kinematics-aware toolpath calculation

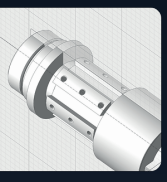




State-of-art interface



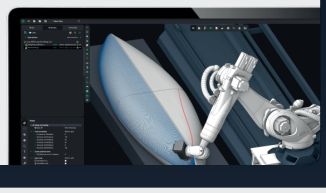
Parametric CAD



NC-code simulation and verification

%001
→1 GO
N2T2

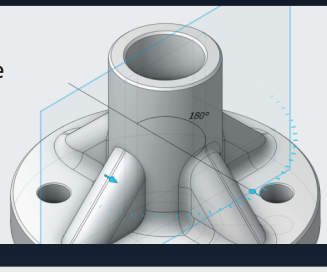
Crisp at 4K screens



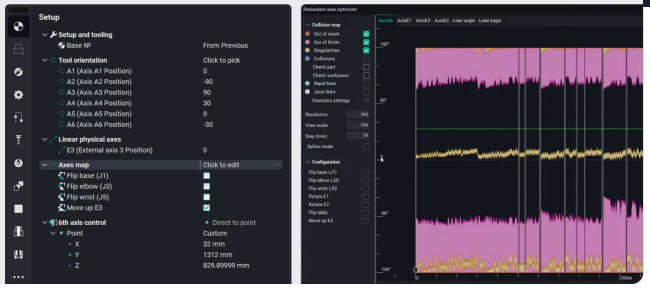
Open API



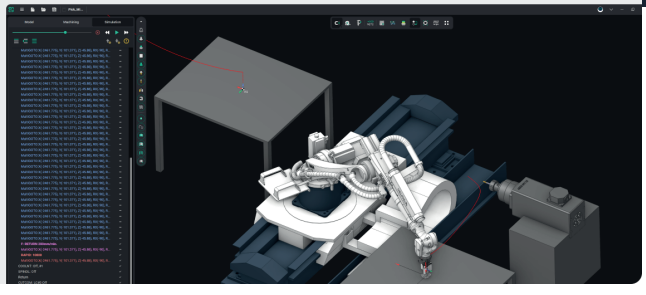
Technological independence



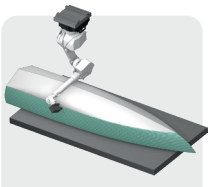
Comprehensive toolset for robot kinematic management



Full robotic cell simulation



Applications



Robot milling



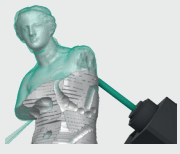
Robot cutting



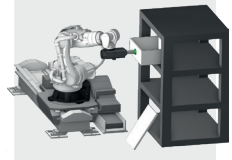
Additive



Robot welding



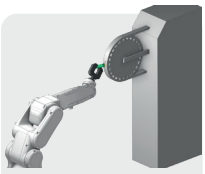
Sculpture/Stone



Pick and place



Spray painting



Polishing

About us

ENCY SOFTWARE LTD, the developer and supplier of this product, is headquartered in the EU, in Cyprus.

For years, our team has been dedicated to transforming the CAD/CAM workflow. We aim to create a natural environment for the next generation of CAD/CAM engineers, breaking the boundaries of traditional solutions with advanced communication tools and AI. Our goal is to ensure the industry's fastest transition from design to finished part, making your processes more efficient and innovative.

Experience the future of CAD/CAM with ENCY. Explore our solutions, request a demo, or contact us to learn how we can help you revolutionize your workflow.

ENCY SOFTWARE LTD

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