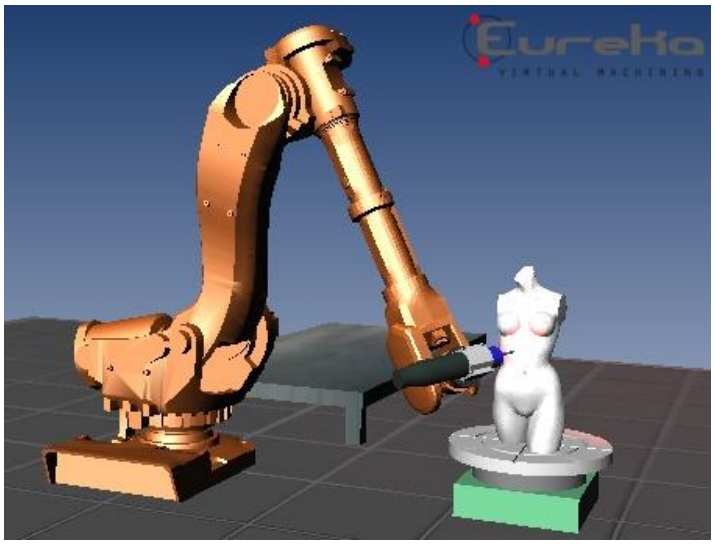
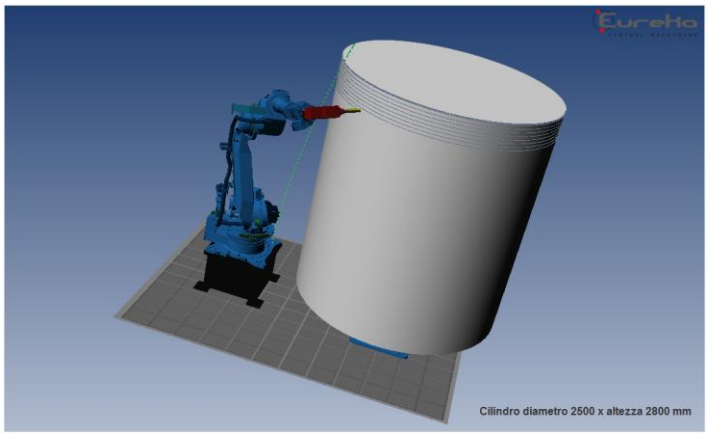
EUREKA

Solution for the off-line robot programming.

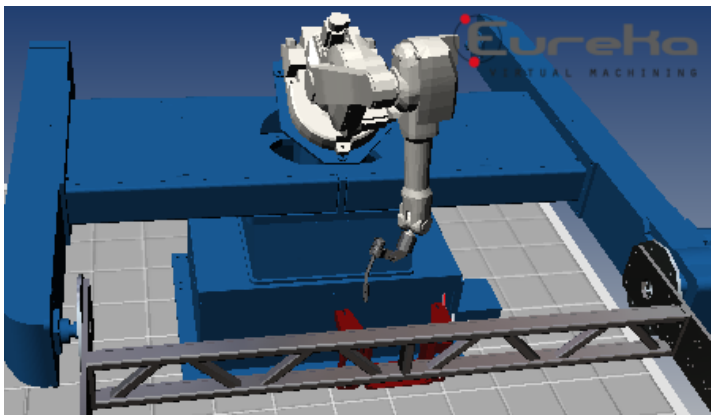


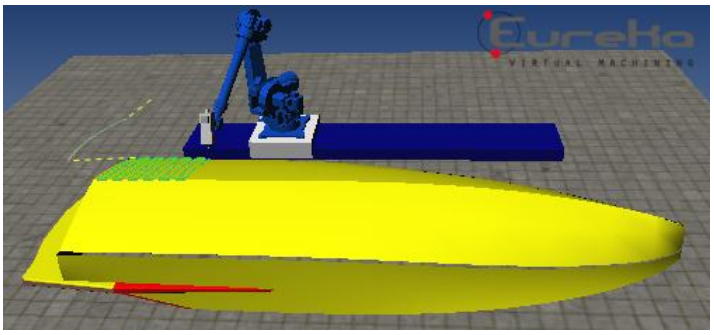
Processes: milling, trimming, cutting, deburring, grinding, polishing, painting, brushing, welding, sanding.



Fields of applications: rapid prototyping, sculpture, biomedical, boating industry, aereonautics, railways.

Manufacturing fields: stone, composites, plastics and machining industries.





RED Technologies

Know how aided industrial automation and robotics.

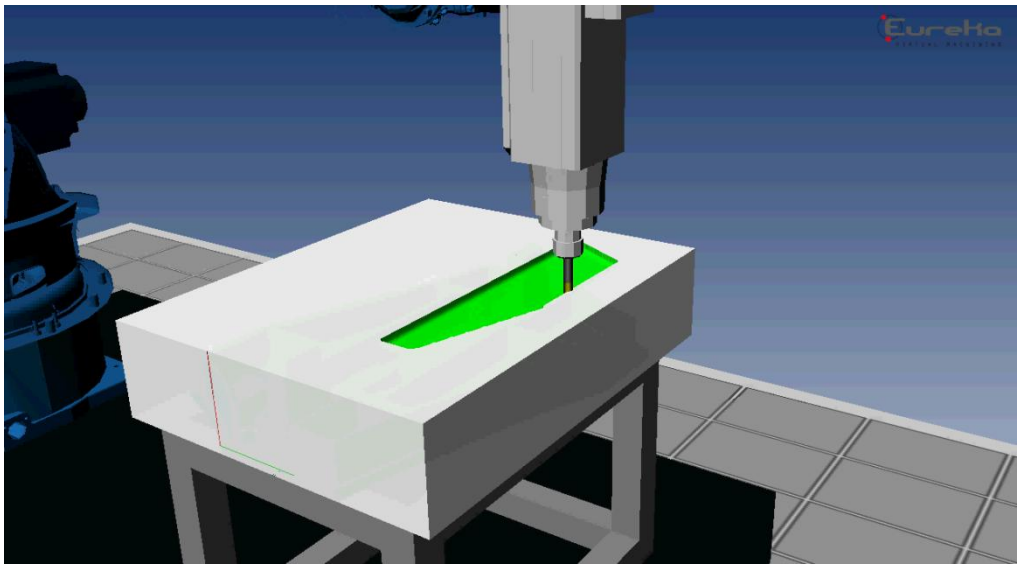
ADVANTAGES

Eureka is a robot-programming system, that was realized to provide off-line graphics simulation of the working CAM program in a robotics cell. It comprises several modules to rapidly do the job, including (a) a postprocessor, translator into format required for the particular robot; (b) graphics simulator that makes possible the 3D visualization of the robot movements before actually programming it; (c) tools to optimize robot and external axes movements; (d) tools to easily manage all the cell components.

reduction in production times...with the help of simulator it is possible to seek for best trajectory solutions while the robot is in production.

verification and feasibility studies...robot libraries are composed of a large range of commercial robot models so it's possible to test the reachability of different robots and compare solutions without having the robots and building the work cells.

modules for specific applications...thanks to wide open software architecture, process-specific plug-ins are integrable.



ROBOT LIBRARY
ABB, Kuka, Fanuc, MOTOMAN, Kawasaki, Staubli, Comau.

GRAPHIC SUPPORTED FORMATS
STL, STEP, IGES, CATIA, PRO / E, VDA, Parasolid.

APT GENERATED BY
CATIA, PRO-Manufacturing, Alphacam, Surfcam, VX, MasterCAM, Tebis and any other CAM system.

FEATURES

SIMULATION

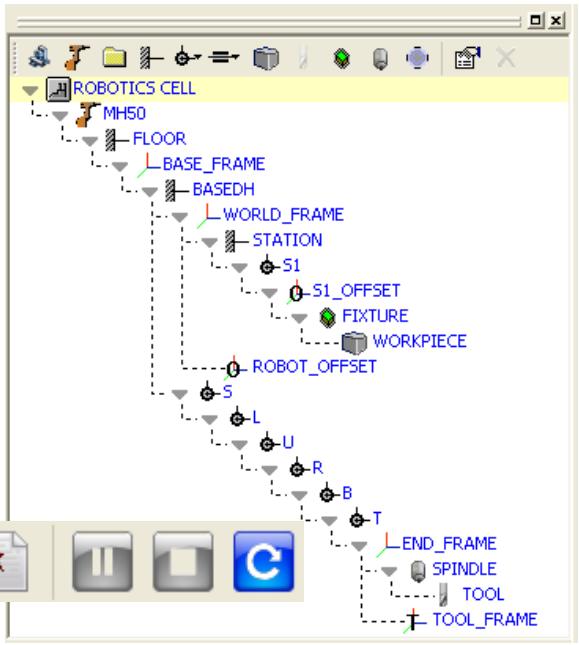
Simulates APT program
Detects collisions, overtravels, singularities
Simulates probing routines
Simulates tool change
Accurate machining time reporting
Material removal simulation to check the collisions during roughing program

EDITING

NC program editor with debugger
Interactive creation and modification of trajectories
Optimization of external axes movements
Machining with blades and disks
Modification of clamping positions and head orientation

HIGHLIGHTS

JOG and MDI
MiniCAD tool helps to draw dimensional profiles on which to build revolution or extrusion shapes



ADVANCED FUNCTIONALITIES

Customization in Visual Basic Script
Integration with other software applications using the COM interface
Custom kinematic chain build
Custom robotics cell build

SYSTEM REQUIREMENTS

Windows 2000, XP, Vista, Windows7
32 or 64 bit

Head office

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