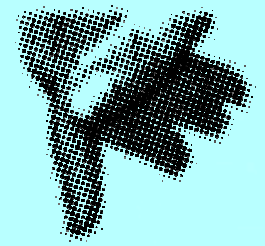


Applied Computing & Engineering Ltd

Design & Manufacturing Simulation



Introduction

AC&E has been applying simulation technologies to a wide range of design and manufacturing applications found in aerospace, automotive, defence, power, polymer and other engineering organisations. Our manufacturing simulation software provides easy and accurate access to preparing and verifying (often) complex programmes for specialist equipment, robots and other expensive machines.

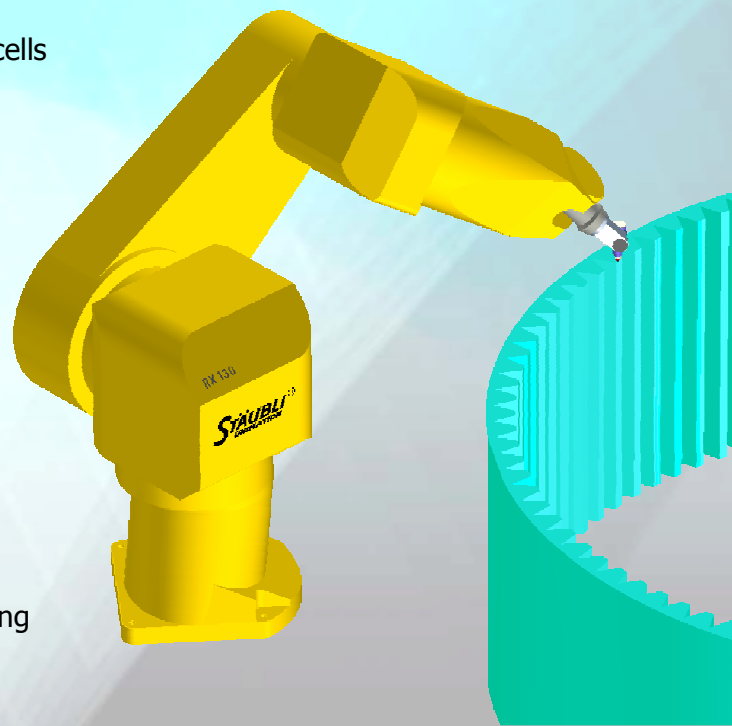
CimStation Robotics - CSR - is powerful 3D simulation software that enables you to quickly simulate and evaluate alternative methods for automating your manufacturing process.

Using existing in-house CAD data and our library of commercial robots and accessories to create a detailed simulation of the proposed manufacturing system, CSR accurately simulates interactions between workcell components to optimise your equipment selection, fine-tune it's positioning, and maximize your production throughput.

The system is the most comprehensive and easy-to-use robotic simulation software available and works completely off-line, eliminating the risk of damage to your equipment and freeing robots for productive work

Increase Your Productivity

- Full 3D layout of your robots, end effectors, fixtures, AGVs and part positioners
- Extensive library of commercial robot models and post-processors
- Paint, Spot, Polish, Assembly and Press Application Solutions
- Fast, realistic simulation of your robotic workcells
- Direct CAD interfaces
- Robot calibration and verification
- Workcell calibration
- Workcell and program optimisation routines
- Automatic collision detection
- Automatic generation of robot kinematics
- Simulation of robot dynamics
- Object-oriented open architecture programming environment

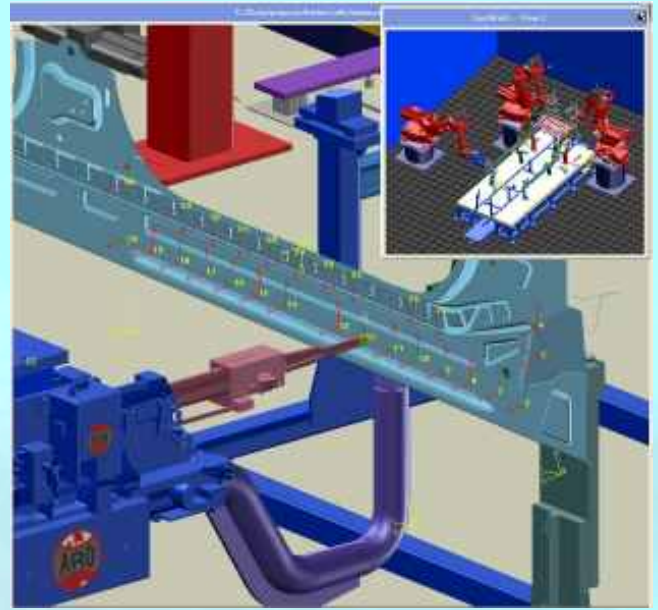


Reduce Your Risk

Create, modify, debut and execute your programs in our easy-to-use, point-and-click environment, without risking damage to costly hardware and equipment.

Perform reachability studies, identify collisions, reduce joint wear and tear, decrease your cycle time and simulate error in path following, overshoot and damping - even perform training - in your own 3D virtual factory, freeing your real facilities from wasteful downtime.

And with over 150 kinematically accurate models of commercial robots, as well as common workcell components such as grippers, conveyors and rotary tables, you can quickly and easily build and re-build your virtual factory to suit any equipment you purchase. If required, our unique system will automatically place robots and plan collision free paths. You can even create your own, custom robots and components - simply and automatically.

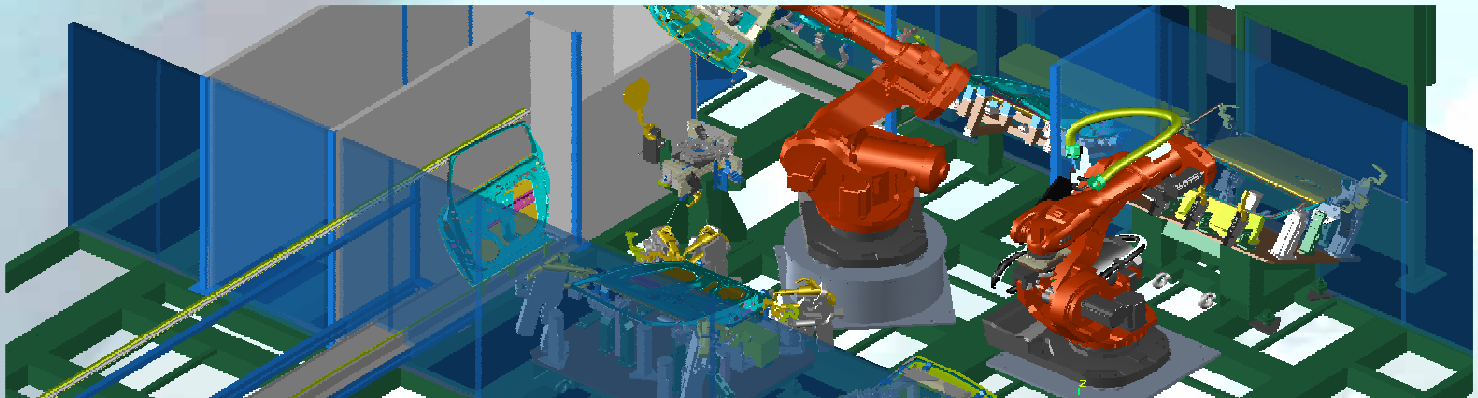


Develop Off-Line - Produce On-Line

Once you've visualised, verified and optimised your complete production line in your virtual factory - bring it into the real world.

Our range of fully verified language post-processors will translate the programs running your virtual factory into your robots' native languages. With full support for the features unique to particular makes and models, our translators quickly and effortlessly turn your simulations into actual production line, downloading your programs directly into your robot controllers.

So with CSR, you can develop off-line and then produce on-line, and dramatically increase efficiency.



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