

NCSIMUL 4CAM

Streamline your CNC programming and make your shopfloor more flexible than ever

How adaptive is your CNC programming process?

- Do you have to re-write and re-work former CNC programs for new machines?
- Do you have to switch part production between machines at the last minute?
- Do you have to re-engineer some of your toolpaths and need to reprogram?
- Have you ever experienced difficulties while setting up a new CNC post processor?
- Do you have to update your CAM system after a CNC program modification on the machine?

If you answered YES to any of the questions above, you need NCSIMUL 4CAM

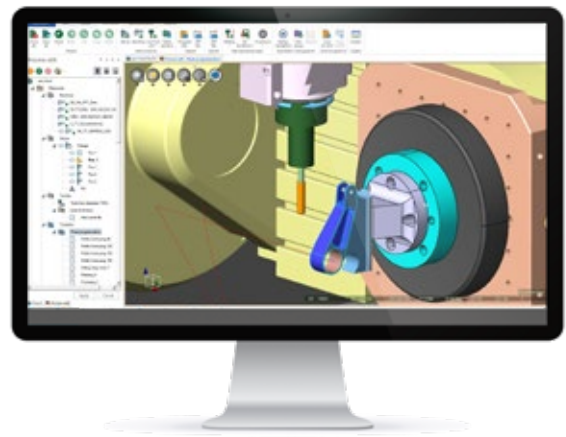
NCSIMUL 4CAM benefits

- Generate automatically new CNC machine programs from a formally created CNC toolpath
- Switch your part machining between the different CNC's, on-the-fly, without reprogramming
- Modify or enhance recycled programs by reusing existing APT or G-code files, and manufacturing process optimization with a single copy/paste action
- Eliminate external post processors thanks to the integrated CNC processor
- Connections between machine sequences are automatically calculated in an optimal way

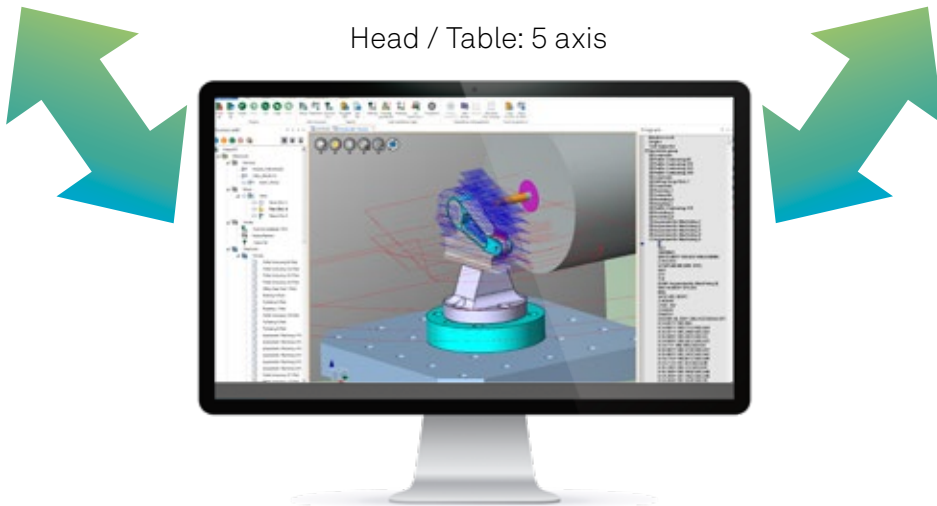
Table / Table: 5 axis



Table / Table: 5 axis



Head / Table: 5 axis



The ability to change CNC machines on-the-fly without CAM reprogramming is a real bonus.”

The NCSIMUL 4CAM difference

- Shopfloor flexibility for non-stop CNC Machining
- No post processor needed
- Automated cutting feed rate for every machine
- Automated tool selection for every machine
- No expertise required

NCSIMUL 4CAM: the flexible CNC programming solution

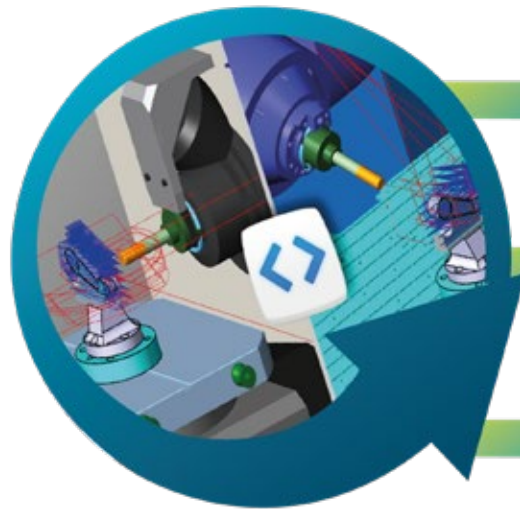
Streamlined, bi-directional and seamless end-to-end machining process

DATA INPUTS



Multi sources

NCSIMUL 4CAM



Save time for your programmer

MACHINED PART



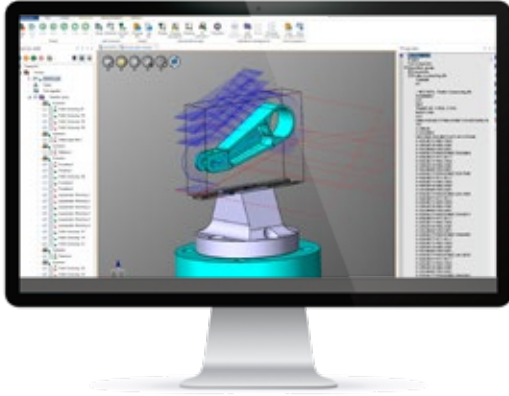
Maximum flexibility

“Hybrid” Programming

- Generate CNC program from diversified input data: CAM files in neutral format (APT/CL-data), G-code files (Fanuc, Siemens, Heidenhain, and Num) and CAD files (in native CATIA, NX, CREO and Parasolid/STEP format)
- Unique programming flexibility through the mix of input sources
- Modification or enhancement for recycled programs by reusing existing APT or G-code files, and manufacturing process optimization with a simple copy/paste action
- Partial or total toolpath replacement, from imported APT or G-code files, with new toolpaths calculated by NCSIMUL 4CAM

Error-free programming in native CNC code

- Capitalize of G-code modifications (e.g. machine proven out ...) directly into NCSIMUL 4CAM
- Single file tracks the part machining history, including the resources used and the machining steps
- Edition traceability



No more external post processor

- Integrated CNC processor, natively calculates the CNC program based on the logic of the machine and the CNC controller
- Optimal linking between machining sequences, tilted plan, polar mode, spatial correction
- Withdraw the usual post processors development costs and setup
- User friendly format output customisation (program header format, for example)

One-click reprogramming

- Change the CNC machine targeted in one click, to automatically generate a new G-code program on-the-fly
- Account for the kinematics, CNC controller format and machine origins
- Adjust the tool storage magazine configuration and cutting conditions to be compatible with the new machine
- Automatic and optimal links recalculated between machining sequences (e.g. shortest distances, avoid collisions between the different elements, tools and machine axes)
- Ensure total flexibility of production tools

Rest material dynamic management

- Advanced programming comfort by viewing, at any time, the machined rough stock status
- Evaluate the remaining work area to machine the final part, including full 5-axis machining
- Save the rest stock for a fast visualization by a CNC operator
- STEP format export to be read by CAM software