

## NX CAM

### Advanced CNC Software for complex manufacturing operations

NX CAM is a high-end CNC programming solution designed for manufacturers requiring advanced precision and automation. It supports milling, turning, and multi-tasking operations, reducing cycle times and enhancing product quality.

Full integration with NX CAD ensures a seamless transition from design to production, preserving design intent and improving both quality and process efficiency.

### Why choose NX CAM?

#### Full CAD/CAM Integration

NX CAM integrates seamlessly with the CAD environment, ensuring uninterrupted continuity between design and manufacturing. This eliminates data transfer errors and enables a highly efficient workflow.

#### Support for complex machining

NX CAM handles a wide range of complex operations, including full 5-axis milling and multi-tasking, providing the precision and flexibility required for advanced geometries and smooth tool movements throughout the process.

#### Advanced toolpath simulation

With advanced simulation capabilities, NX CAM verifies toolpaths before execution, ensuring safe machining and avoiding costly errors. This reduces machine downtime and increases operational safety.

#### Automation and precision

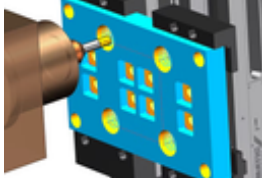
Rule-driven and fully configurable automation reduces manual intervention, improving operational efficiency while ensuring consistent and accurate machining across all process stages.



NX CAM supports machining operations from 2.5-axis to full 5-axis continuous motion, offering maximum flexibility to handle highly complex parts.

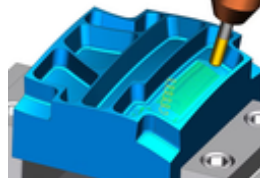
# Benefits of NX CAM in advanced manufacturing

NX CAM generates optimized toolpaths, simulates machining operations, and produces production-ready CNC programs for a wide range of machine tools. Integrated CAD functionality also allows users to prepare part models and define machine setups with precision.



## Cutting tool management

Cutting tools are easily managed using a modern graphical library with dynamic previews. NX CAM allows fast import of tool data from supplier catalogs, eliminating manual entry and boosting programming efficiency.



## Integrated simulation

NX CAM offers digital validation of operations through built-in simulation. The machining process is accurately simulated in advance, helping eliminate errors and streamline operations before running the program on the actual CNC machine.



## Automated programming

Automatically generates operations for many common features within seconds, minimizing manual work and improving productivity by up to 90%, with optimized resource and time management.



## Advanced machining strategies

Produce high-precision parts of any complexity using strategies like high-speed multi-axis roughing and high-speed finishing. These techniques improve part quality and reduce cycle times by up to 60%, ensuring greater efficiency and consistent results.



## Cloud-based postprocessing

NX CAM enables the generation of validated, production-ready CNC programs via Post Hub, a cloud-based postprocessing platform. It offers access to over 1,000 postprocessors to generate G-code tailored to your specific machine tool setup.



## Integrated solutions

The unified NX CAM platform enables efficient collaboration across all stages of the manufacturing process—from CAD and CAM programming to 3D printing and inspection programming with coordinate measuring machines (CMM)—all within a single environment.