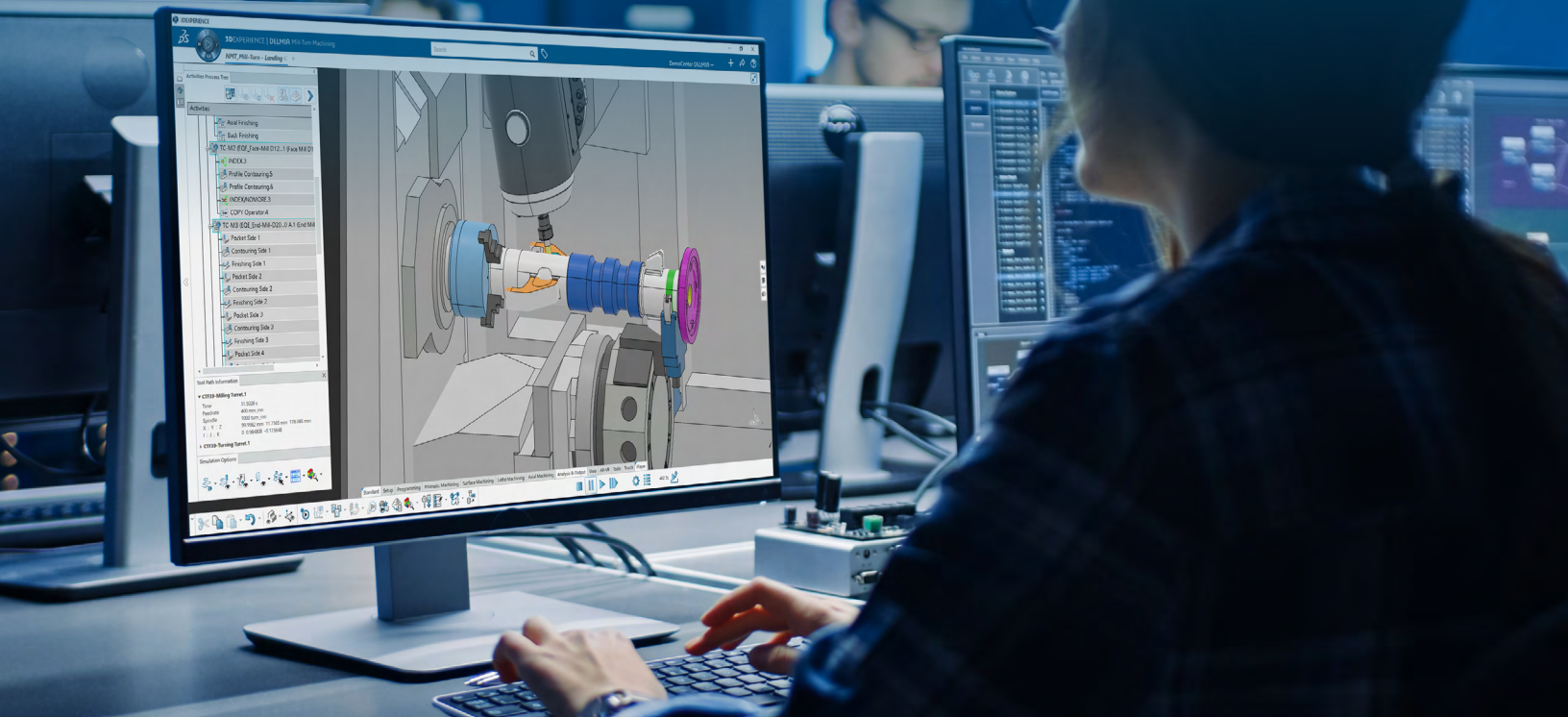


# NC MILL-TURN MACHINE PROGRAMMER

## 3DEXPERIENCE MANUFACTURING & PRODUCTION ROLE



### CREATE AND VALIDATE MULTI-AXIS MILLING AND TURNING PROGRAMS

*NC Mill-Turn Machine Programmer* offers a complete range of multi-axis milling and turning strategies for programming complex parts with 5-axis features, multi-pockets and machining turning features. It enables NC Programmers to program mill-turn machines incorporating advanced capabilities to simulate turret synchronization, follow-turning, and part transfer scenarios. It also delivers a high level of automation and collaboration capabilities that increase programming efficiency and alleviate production risk. At the same time, faster programming, early machine behavior validation and ease of making changes shorten the design-to-manufacturing cycle.

## BENEFITS

### Accelerate NC programming and mitigate production risk

Authoring and editing NC programs is fast and easy with user-friendly features like virtual programming wizard, traffic light indicators and help icons throughout the programming experience. High levels of automation and multi-pocket operations support efficient part machining. A realistic 3D presentation lets programmers create optimized NC programs in the manufacturing context. The ability to account for a tool's physical environment and use a 'Single Source of Truth' for resources and programs reduces both errors and production risk. Resource data, including machine, set-up, tool assemblies, post processor, controller emulator, machine code and required fixtures are managed and easily accessible on demand. All roles include the ability to program and simulate wire Electrical Discharge Machining (EDM) processes.

### Optimize tool utilization and simulate results

Optimized NC programs reduce overall machining cycle time. High-speed milling delivers high quality machining for 5-axis motion. Simulations include a comprehensive view of your virtual machine with set-up, tool assemblies, fixtures, machine tool with material removal either based on tool paths or real machine code. This capacity to work smarter saves time while ensuring traceability of tasks.

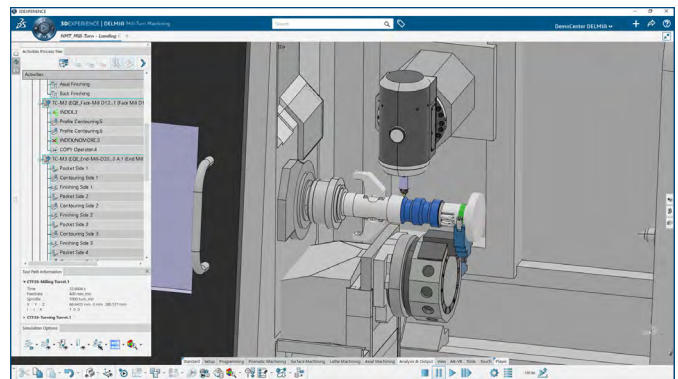
### Shorten the design-to-manufacturing cycle

*NC Mill-Turn Machine Programmer* offers NC programmers unrivaled associativity between product engineering, manufacturing processes and resources. Native implementation links connect machining programs to engineering and manufacturing data, highlighting which programs will be affected by any changes. This increased capacity to manage concurrent engineering and manufacturing flows prevents errors while shortening the design-to-manufacturing cycle. Tasks become easier, like creating programs for families of parts. Design changes are handled in a more efficient way. All of this functionality is backed up with industry-leading expert support.

## HIGHLIGHTS

*NC Mill-turn Machine Programmer* provides best-in-class machining strategies. It empowers users with efficient programming of mill-turn machines and powerful simulation capabilities.

- Complete turning and milling solution
- Create and optimize complex milling and turning operations
- Dedicated cycles for aerospace and turbomachinery applications
- Multi-spindle and multi-turret management
- Automatic association of prismatic machining features with part design
- Author turning operations for B and C-axis mill-turn machine interpolations
- New cycles for stiffeners
- Included Wire Electrical Discharge Machining (EDM) machining
- Dedicated cycles for hard material machining
- Machine simulation integrated with material removal simulation
- All multi-axis milling strategies (e.g. tube machining, flank contouring)
- Program creation wizard and an immersive user interface
- Dedicated operations for fast multi-cavity part programming
- Powerful integrated simulation capabilities for toolpath validation
- Seamless NC data generation, including NURBS output
- Key information can be exported for the shop floor
- New levels of ability to leverage Enterprise IP
- Strong associativity with design and instant stakeholder updates



Create multi-axis NC programs efficiently with powerful automated tools

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