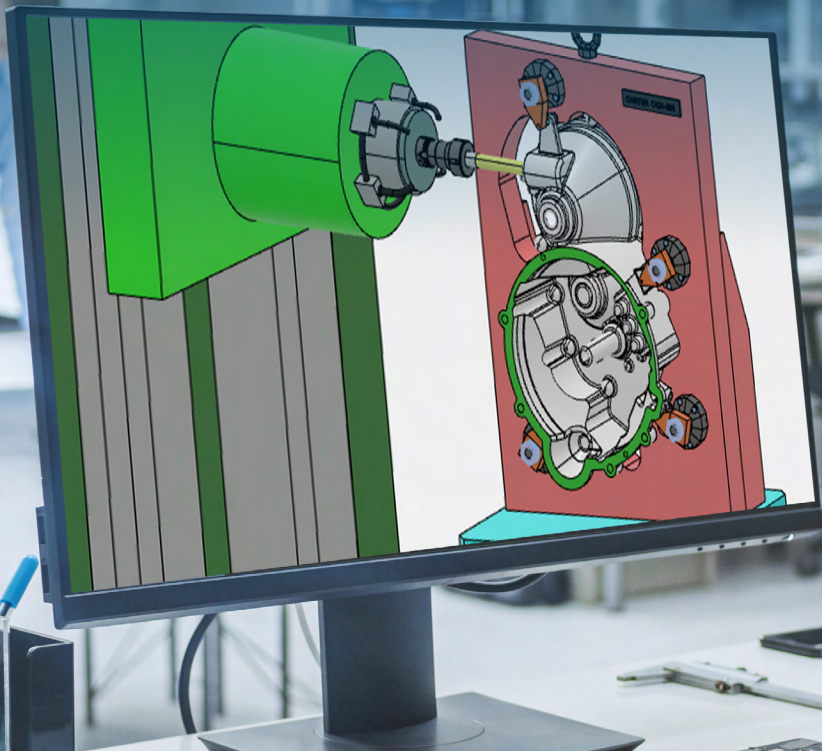# NC PRISMATIC MACHINE PROGRAMMER

3DEXPERIENCE MANUFACTURING & PRODUCTION ROLE

PROGRAM 2.5 AXIS MILLING MACHINES

NC Prismatic Machine Programmer creates, enhances and validates prismatic milling programs. *NC Prismatic Machine Programmer* delivers the ability to program a milling machine to produce 3D parts that require advanced 2.5-axis milling, axial and probing operations. The **3D**EXPERIENCE® platform provides a realistic virtual workplace to create, enhance and validate milling programs. It provides easy access to up-to-date information for machining resources, NC programs, and part set-up. *NC Prismatic Machine Programmer* provides a full set of features for workpiece setup, cutter tool assembly, and toolpath simulation which includes material removal and NC code generation.

REDUCE NC PROGRAMMING TIME

NC Prismatic Machine Programmer increases efficiency with features like intuitive graphic dialog boxes, traffic light indicators for undefined machining parameters, and a help icon for each parameter operation. When NC programs are authored or edited, the machine tools kinematic definition are taken into account. Tool changes and machine rotations are automatically generated and can be visualized in the machining operation definition panel.

IMPROVE MACHINE TOOL UTILIZATION

A wide range of operations and strategies helps programmers create toolpath programs that reduce non-value-added motion. Optimized NC programs, including high-speed machining features, reduce overall machining cycle time.

## MITIGATE RISK TO PRODUCTION

NC Prismatic Machine Programmer's 3D environment enables users to create optimized NC programs in the manufacturing context including NC machine, cutter, tool assemblies, NC accessories and other elements. This provides a better understanding of the machining cell and helps to ensure that the toolpath and machining strategy take the tool's physical environment into account. It reduces the risk of unexpected issues and production delays.

LEVERAGE INTELLECTUAL PROPERTY

NC Prismatic Machine Programmer improves automation and standardization of NC toolpath programs. Users can define and store machining processes for multi-pocket operations as dedicated templates, and store them in catalogs for reuse. Company intellectual property is capitalized and reused to make programming more efficient. The gains in productivity and machining-work standardization are significant.

HIGHLIGHTS

- Groundbreaking **3D**EXPERIENCE platform
- Setup wizard and an immersive, context-based user interface
- Manage and program machining resources
- Automatic association of prismatic machining features with part design
- Creation and optimization of 2.5-axis milling, drilling and probing operations
- Advanced simulation capability
- Seamless NC data generation
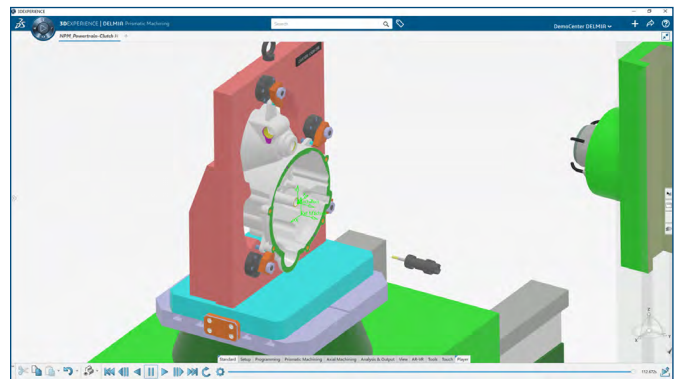
Create turning and machining tool paths quickly and efficiently

Our **3D**EXPERIENCE® platform powers our brand applications, serving 11 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3DEXPERIENCE** Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating 'virtual experience twins' of the real world with our **3D**EXPERIENCE platform and applications, our customers push the boundaries of innovation, learning and production.

Dassault Systèmes' 20,000 employees are bringing value to more than 270,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit **www.3ds.com**.

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