



# CATIA PLM Express

## CATIA - Surface Machining

Efficient and automated 2.5-axis milling, drilling and 3-axis surface NC programming

### Overview

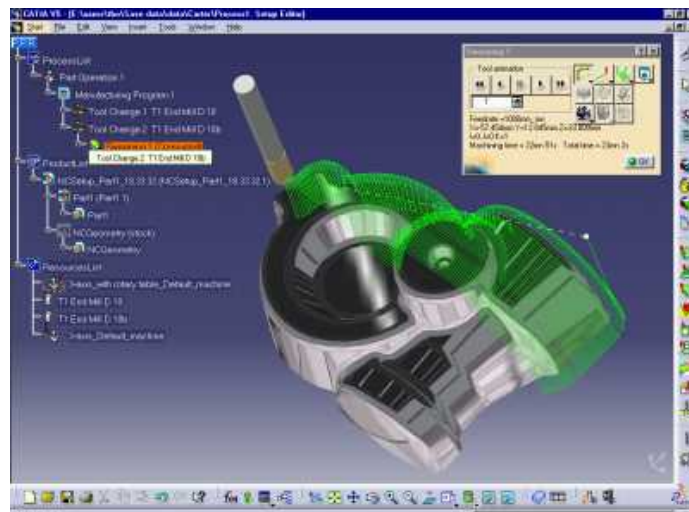
The CATIA - Surface Machining option delivers high-end prismatic and surface strategies for productive mold and die machining with best-in-class quality results. NC programmers benefit from full associativity with CATIA design parts, and powerful machining automation capabilities to drastically reduce NC programming and machining time.

### Benefits

- Best in class surface machining quality, faster machining time, and ensured collision free tool paths
- Drastic reduction of NC programming time thanks to process' templates
- NC machining time reduction thanks to optimized tool paths
- Ultra-large NC program management and ultra-fast computation thanks to 64-bit support
- Seamless design-to-manufacturing process with manufacturing features recognition and full associativity in the event design changes are made

## Capabilities

- Full set of high end 2.5 and 3 axis milling and drilling operations for accurate tool path definition, including support of High Speed Milling technology:
  - Powerful roughing, semi-finishing and finishing strategies
- Automated detection and reworking of non-machined areas in roughing or finishing  
Powerful automation capabilities for efficient NC programming:
  - Capitalization of already defined processes thanks to machining process templates
  - Automatic sequencing, user defined Features ...
- Accurate verification of the tool path including simulation of material removal and analysis of remaining material in photo mode



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### About Dassault Systèmes

As a world leader in 3D and Product Lifecycle Management (PLM) solutions, Dassault Systèmes brings value to more than 90,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systèmes develops and markets PLM application software and services that support industrial processes and provide a 3D vision of the entire lifecycle of products from conception to maintenance. The Dassault Systèmes portfolio consists of CATIA for designing the virtual product - SolidWorks for 3D mechanical design - DELMIA for virtual production - SIMULIA for virtual testing and ENOVIA for global collaborative lifecycle management, including ENOVIA VPLM, ENOVIA MatrixOne and ENOVIA SmarTeam. Dassault Systèmes is listed on the Nasdaq (DASTY) and Euronext Paris (#13065, DSY.PA) stock exchanges. For more information, visit <http://www.3ds.com>

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