



# CATIA PLM Express

## CATIA - Advanced Multi-Axis & Pocket Machining

**De facto standard for complex aerospace part machining with state of the art milling technologies**

### Overview

The CATIA - Advanced Multi-axis and Pocket Machining option is the all in one reference milling option that enables machining of the most complex parts, using 2.5-axis to 5-axis and advanced aerospace multi-axis processes. NC programmers benefit from full associativity with CATIA design parts and powerful machining automation capabilities to drastically reduce NC programming and machining time.

### Benefits

- All-in-one milling option
- Best in class surface machining quality, faster machining time and ensured collision free tool paths
- Drastic reduction of machining operations and NC programming time savings
- Especially for multi-pocket parts (programming is up to 8 times faster with 75% fewer operations)
- Through-machining process automation
- 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

- State of the art machining techniques support: HSM capability, strategies for hard materials:
  - 5-axis flank contouring
  - 5-axis helix machining for turbo-machinery parts
  - Global and automatic machining strategy for multi-cavity parts
- 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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**TECMES**

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