



# CATIA PLM Express

## CATIA - NC Machining Verification

**Integrated validation of machining processes and analysis of accuracy of machined parts**

Companies need to optimize machine tool usage and need to produce complex 5X parts right the first time. NC programmers need to virtually validate their program and to be sure that the part will be machined with the right accuracy, avoiding any collision during the machining.

### Overview

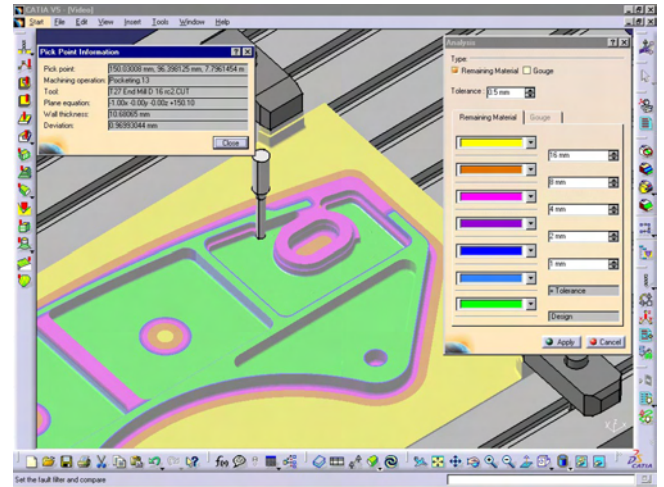
The CATIA - Machining Verification option offers advanced tool path verification capabilities for multi-axis machining. It makes it possible to further validate NC programs with the best accuracy thanks to material removal and geometric analyses. In addition, NC programmers are able to graphically visualize collisions between tool assembly and machining set to fully ensure a collision-free tool path.

### Customer Benefits

- Detailed analysis of the machined part
- Multi-axis analysis of remaining material
- Ensured full collision-free tool path between tool assembly and machining set up

## Key Capabilities

- Advanced verification capabilities for 5-axis positioning and machining
- Graphical comparison of machined part and design part
- Graphical visualization of clashes between tool / tool holder / shank and part or fixtures
- Measurement of machined parts, including pick-point analysis
- Machining times and collision details reports generation
- ISO-code tool path validation (Machine Tool Simulation option needed)



Screen capture of CATIA - NC Machining Verification

Visit us at [www.3ds.com/my-catia-plm-express](http://www.3ds.com/my-catia-plm-express)

### About Dassault Systèmes

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>

CATIA, DELMIA, ENOVIA, SIMULIA and SolidWorks are registered trademarks of Dassault Systèmes or its subsidiaries in the US and/or other countries. Copyright Dassault Systèmes 2002, 2006. All rights reserved. IGRIP®, QUEST®, IGRIP®, ULTRAARC®, ULTRAPAINT®, ULTRASPOT®, VIRTUAL NC® are registered in the US Patent and Trade Mark Office by DELMIA Corp. INSPECTM is owned by DELMIA Corp. Pictures courtesy of Bobst SA

