CATIA PLM Express

CATIA - Lathe & Prismatic Machining

Easily defines NC programs to machine 3D parts using advanced 2.5-axis milling,drilling and turning operations

It is essential to quickly and truthfully respond to customer's needs in today's global environment. Therefore, companies need to produce parts quicker, optimize machine tool usage, and automate low added-value programming tasks.

Overview

The CATIA - Lathe and Prismatic Machining option makes it possible to rapidly define valid milling and turning programs in a single environment. NC programmers benefit from full associativity with CATIA design parts, as well as powerful machining automation and preparation capabilities to drastically reduce NC programming and machining time.

Customer Benefits

- Unique environment to combine milling and turning operations in a single program
- Automatic machining preparation to identify machining areas for 2.5 axis and drilling
- Drastic reduction of NC programming time through automation of the machining process
- Seamless design-to-manufacturing process with manufacturing features recognition and full associativity in the event design changes are made

Key Capabilities

Full set of 2.5 axis milling and drilling operations for accurate tool path definition, including support of High Speed Milling technology

Include also Roughing, surfacing, latest pocketing strategies, outline shaping, axial cycles such as helicoidal and thread milling, point to point cycles, engraving etc.

2-axis turning and drilling operations that brings the following

Roughing cycles (slide lathing, part casing, parallel outline shaping, recess, internal, external, frontal and rear machining) and grooving, rough-cutting, finishing cycles

Automatically creates all prismatic geometrical machining features of a design part for milling and drilling machining

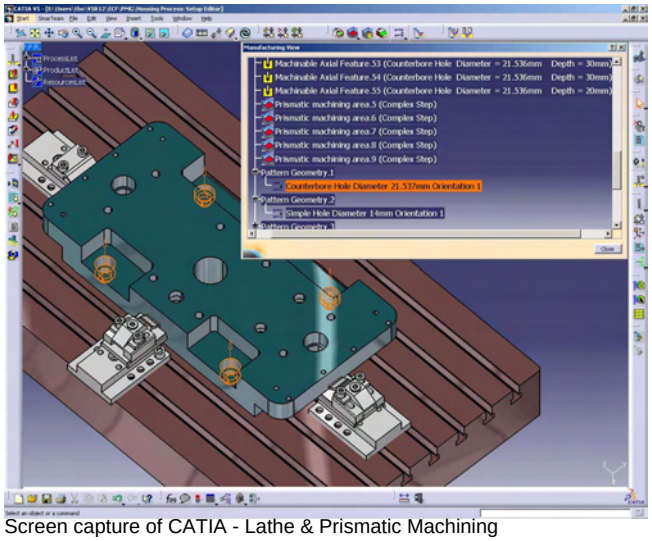
Benefit from NC machine definition to check accessibility and to manage transition motion between machining operations

Powerful automation capabilities for efficient NC programming:

- Capitalization of already defined processes thanks to machining process templates
- Automatic sequencing, User Defined Features ?
- Easy and powerful macros definition

Accurate verification of the tool path including simulation of material removal and analysis of remaining material in photo mode

Automatic generation of the manufacturing documentation that includes the machining phases, tools, machine and cutting parameters



Screen capture of CATIA - Lathe & Prismatic Machining

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