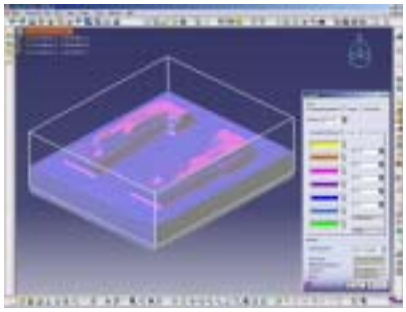
IX Prismatic Machining

Perform 2.5 Axis Milling Operations

IX Prismatic Machining easily defines drilling and 2.5 axis milling operations. Quick tool path definition is ensured thanks to an intuitive user interface based on graphic dialog boxes. Tools can be easily created and stored in tool catalogs. The entire manufacturing process is covered from tool path definition, computation, and verification to NC code and shop floor documentation generation. Associativity with IX part design allows efficient change management.



Key Benefits:

Acccurate tool path definition for drilling and 2.5 axis milling. IX Prismatic Machining enables you to elaborate a large range of machining operations for tool path definition such as pocketing, facing and contouring operations that can be defined as multi-level and multi-pass. In addition, a point-to-point positioning operation is available, as well as 17 axial operations from standard drilling to more complex boring and chamfering. Finally, you can take advantage of 3 axis to 5 axis NC machines, including 3 axis machines equipped with a rotary table.

Quick tool path definition thanks to an intuitive user interface. You can define machining operations quickly using intuitive graphic dialog boxes. “Traffic lights” indicate if there are still parameters to be defined in order to complete the operation. Moreover, you can take advantage of copy/paste functions to organize a program with a specification tree. Finally, tool changes and machine rotations are automatically generated and can be visualized in the machining operation definition panel.

Flexible management of tools and tool catalogs. Tools can be stored into file-based tool catalogs and retrieved using simple or complex queries. Tool assemblies (tools and tool holders) are supported so that you can define the characteristics of the tool visualization.

Quick verification of tool path. Tool path replay allows generation and verification of individual operations or the complete programs. Alternative machining strategies can be tested and collision-free trajectories can be obtained.

Seamless NC data generation. The IX NC process is extended from tool trajectory (APT source) to NC data generation (ISO format) thanks to an integrated postprocessor execution engine and a library of standard post processor (PP) samples.

Efficient change management. Integrated in the PPR data model, IX NC offers a high level of associativity product engineering, manufacturing processes and resources, enabling better efficiency in concurrent engineering and support of design changes or design variants and a rapid creation of programs for families of parts.

Prerequisite: IX Design V5

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