

Creo® NC Sheetmetal Extension

OPTIMIZE YOUR SHEETMETAL MANUFACTURING

Delivering high-quality products to market faster and at a lower cost requires efficient manufacturing design and processes. With Creo NC Sheetmetal Extension, manufacturing engineers gain powerful capabilities to automatically create NC toolpaths for sheetmetal designs using both standard and form tools.

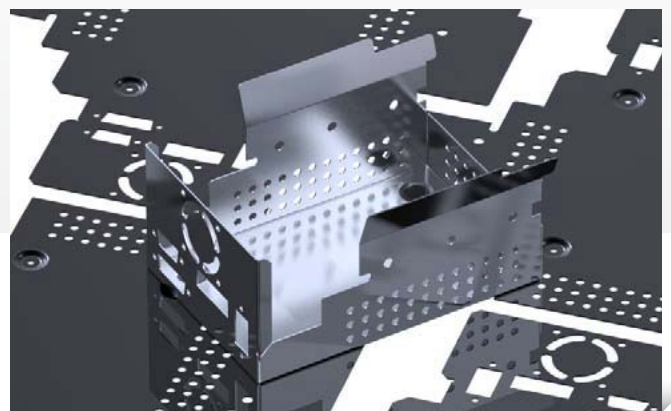
Optimize Design for Manufacturability

Manufacturers need best-in-class solutions to meet the challenging demands of today's competitive, global marketplace. However, with inefficient sheetmetal manufacturing, companies waste money due to high levels of scrap and waste time due to many manually repetitive operations. Creo NC Sheetmetal Extension helps you eliminate these problems by automatically creating and optimizing toolpaths using standard and form tools. And, by leveraging its smart AutoNesting capabilities, you can utilize the maximum sheet area, which reduces both scrap and material costs and shortens lead times. It's the ideal solution if you manufacture sheetmetal components for products such as computers, appliances, consumer electronics and office furniture.

Creo NC Sheetmetal Extension, an integral part of the Creo product family, provides an advantage over external CAM packages because it enables seamless integration with sheetmetal designs created in Creo Parametric. Accordingly, all product models are fully associative, which enables concurrent engineering, accelerates design changes to downstream deliverables and decreases errors due to data translation.

Key Benefits

- Fast NC programming for turret punch presses, contouring laser/flame machines, nibbling and shearing
- Automatic tool selection (standard and custom forms) for punching, forming and nibbling
- Intelligent optimization algorithms for achieving consistent output on the machine, thus reducing non-cutting traveling times and ultimately reducing tool changes
- Displays nesting efficiency (percentage scrap) and machining time report for manufacturing planning
- Full post-processor generation provides seamless integration with all CNC machine tools
- Maximizes sheet utilization, which increases manufacturing efficiency and decreases costs
- Supports Creo Parametric and other CAD sheetmetal designs



Creo NC Sheetmetal Extension helps you maximize your use of sheet area, program turret punch presses and contouring laser/flame machines, among others.

Capabilities and Specifications

AutoNesting with MRP input

- Integration with company's existing material resource planning (MRP) system. Automation's ability to input an ASCII file allows any external system to create order lists of parts that Creo Parametric can automatically retrieve and nest

Auto-contouring for laser/flame/plasma cutting

- Using the new expanded workcell definition, NC sequences are automatically created for all part contours on the nested sheet. The sequences created can then be posted and sent to the machine or customized by the NC programmer

Automatic tool selection (standard and custom forms) for punching, forming and nibbling

Seamless integration with Creo Parametric

- No second system to purchase and learn
- No dual database issues
- No data translation; manufacturing information is even stored in the assembly file (.asm)

Multi-CAD support

- Able to machine imported 2D/3D models, as well as native Creo Parametric sheetmetal designs

DXF direct import

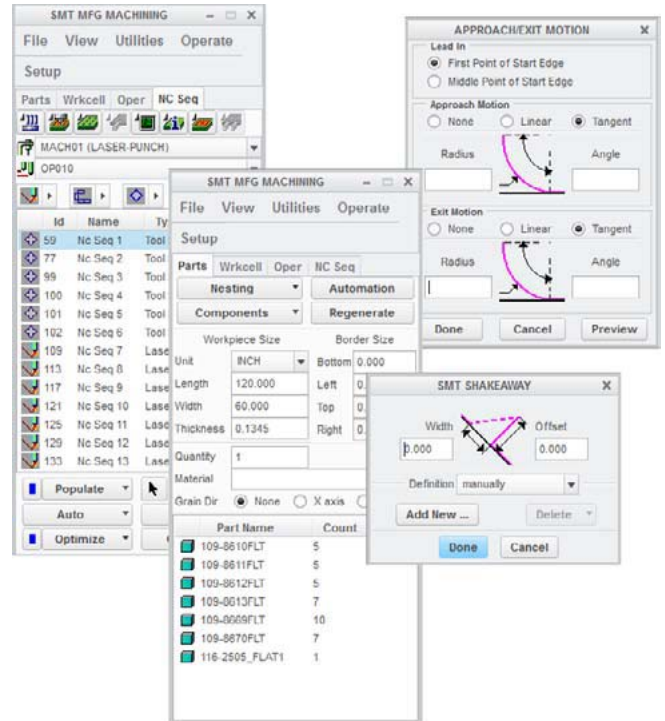
- DXF files can be read directly into Automation, creating Creo Parametric parts 'on the fly'

NC programmers' efforts are reused

- Single-part programming method captures all NC programmer customization once, for repeated application to any nest into which the part is placed

NC post-processing

- Full post-processor generation capabilities to integrate seamlessly with all CNC machine tools
 - Graphic NC post-processor generator
 - Interactive, online, context-sensitive help
 - Extensive library of machine tools and CNC controls



The intuitive user interface in Creo NC Sheetmetal Extension lets you quickly create NC toolpaths for your sheetmetal designs.

Language support

- English, German, French, Italian, Spanish, Japanese, Chinese (Simplified and Traditional) and Korean

Platform Support and System Requirements

- Visit [the PTC Support Page](#) for platform support and system requirements.

To Learn More

For more information, visit: PTC.com/product/creo

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