Pro/ENGINEER NC Sheetmetal

Pro/ENGINEER NC Sheetmetal allows NC programmers - in industries ranging from computers and appliances to consumer electronics and office furniture - to create toolpaths for turret punch presses and contouring laser/flame machines. After parts are designed in Pro/ENGINEER-Foundation or imported through DXF, the NC sequences are defined referencing the part; and nests are created automatically to generate CL files for posting into G code to send to the machine tool.

Semi-automated toolpath creation references designers' punch and form features. Toolpaths for parts only need to be created once, can be customized extensively, and are fully associative. Dynamic True Shape AutoNesting provides the highest sheet utilization to reduce scrap and material costs, and enables shorter lead times - allowing manufacturers to advance from a "push" bulk production system, to a "pull" order driven system.

Key Product Features

Specifically, Pro/ENGINEER NC Sheetmetal functionality allows:

- Seamless integration
  - No second system to purchase and learn
  - No dual database issues
  - No data translations
- MRP input
- Reuse of NC programming efforts
- DXF direct importation

NC Post-Processing
Pro/ENGINEER NC Sheetmetal includes Pro/NC-GPOST, a complete NC post-processing solution. Pro/NC-GPOST enables users to create and update post-processors for any type of CNC machine, used by the Pro/ENGINEER NC Sheetmetal to create specific NC code (G&M codes) files. Manufacturing engineers and NC part programmers can easily create and modify their post-processors to produce "edit free" Machine Control Data (MCD) output from Pro/ENGINEER NC Sheetmetal.

Specifically, Pro/NC-GPOST functionality allows:

- Easy creation and updating of NC post-processors
- Supports of all CNC machine tools
- Use of more than 100 CNC controls defaults
- Download post-processors for PTC technical customer support web site.
- Complete customization with powerful macro language (FIL)
- Utilization of all NC machine capabilities
- Use of advanced features