What's New in 2012?

SPI SheetMetalWorks

Manufacturing Information Attribute

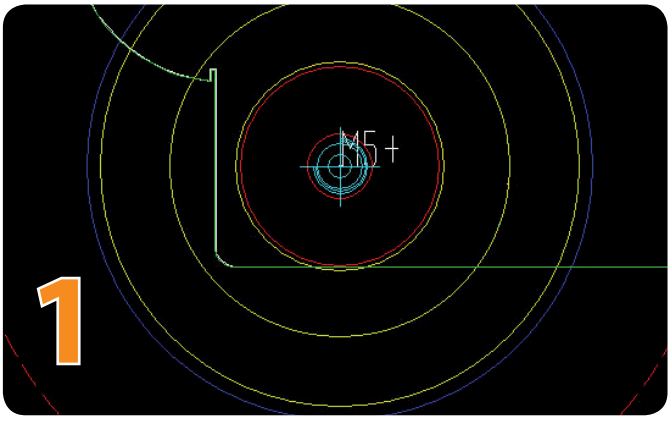
With SPI SheetMetalWorks 2012 it is possible to give manufacturing information attributes along with the flat patern development as an option.

For holes or stamping it is frequently necessary to spend in place of the outline a text into the unolding which the tool intends for a later manufacturing. With the new command *manufacturing information attributes* now users can specify text replacements for selected outlines of holes or stamping at the 3D model. Besides the attribute can be used to transfer text engravings to the unfolding. If the text contains for example a machining pattern defined in TruTops Punch, now with the help of the SPI TruTops interface the unfolding can be handed over to TruTops Punch whereby the machining pattern is already placed and aligned.

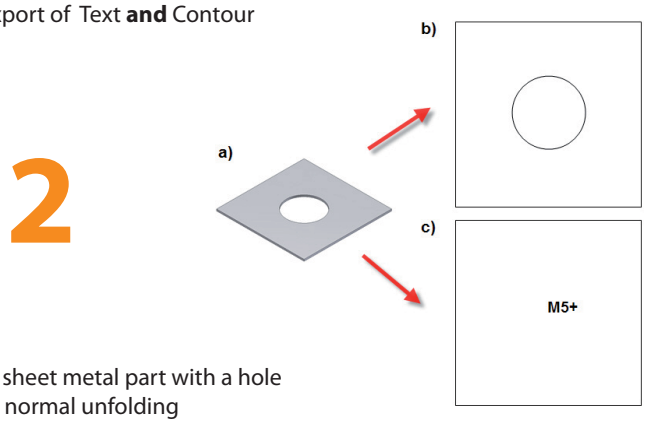
If the text contains a TruTops Punch defined processing sample, it is possible to import such an unfolding in TruTops Punch by means of the SPI TruTops Interface. This results in an already placed processing sample including its direction (fig. 2c).

If you want to insert the assigned contour into the unfolding together with a text use the option *Contour visible (fig.* 1 and 3). In the unfolding parameters for GEO or rather DXF you can modify the Line Properties for all of this contours.

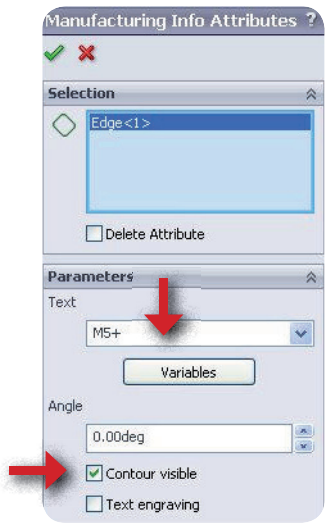
You can put in text directly or use the button „Variables" and than use one or more place holder instead of the text. The place holders values are replaced by concrete values within the unfolding.



Export of Text **and** Contour



a) sheet metal part with a hole
b) normal unfolding
c) unfolding with the text M5+ instead of the hole contour



Options of the command *Manufacturing Information Atribute*

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SPI GmbH
Kurt-Fischer-Straße 30 a
22926 Ahrensburg
Tel. 04102 70 60

SPI Branches
17489 Greifswald
44629 Herne
48149 Münster

SPI Training Center
Berlin
Bielefeld
Bremen
Hannover

http://www.sheetmetalworks.de

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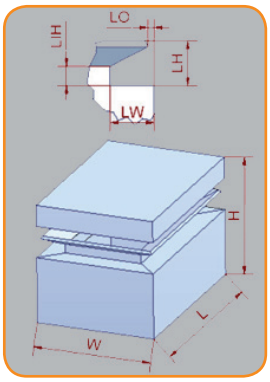
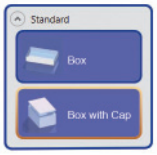
SheetMetalWorks: What's New in 2012?

New Components in Component Manager

Box and Box with Cap



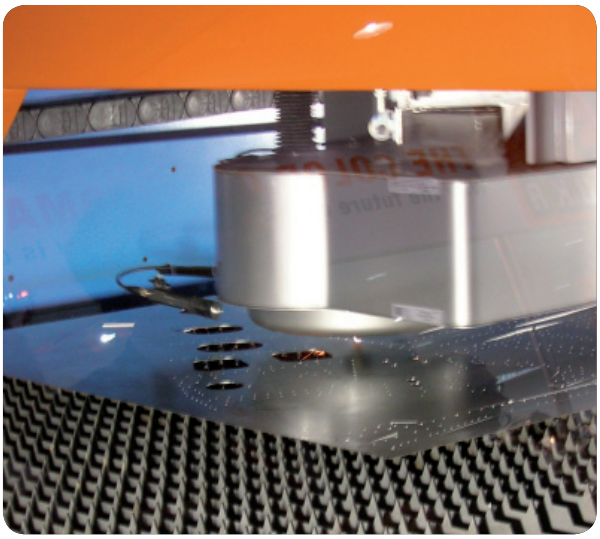


The SPI Component Manager belongs to the scope of supply of the SPI SheetMetalWorks Software and puts an extensive library of standard construction units to your disposal. It supports you with the arbitrary design of standard parts, connectors, flanges, transitions and heads as well as a „box" and a „box with cap". It gives you exact results for filleted and sharp-cornered sheet metal parts. It delivers more than 30 ready to use components. The new version offers **Box** and **Box with Cap.**

http://www.sheetmetalworks.de/media/archive3/2012_smworks_component manager e.pdf

1:1 into NC-Programming

... now with TruTops 2.3



The SPI TruTops Interface allows you to use the bending process information from TruTops Bend. You can read it into the SPI material management database directly and use it during the design process with SolidWorks. The tool's data of several punch and forming tools from TruTops can be used in the same way. The generated unfolding is fully compatible with the calculation methods of the NC program TruTops Bend and delivers all necessary process data. You can directly transfer the unfolding from SPI to TruTops programs (Punch, Laser, Bend) without the need for revision. **The 2012 Modul is compatible with TruTops version 2.3.**

http://www.sheetmetalworks.de/en/230/trutops_interface

...and WiCAM PN 4000

The SPI WiCAM Interface allows the direct transfer and export of the unfolding geometry from SPI SheetMetalWorks to an XML-file, which can be used by the PN4000 software of WiCAM. When using this interface SPI SheetMetalWorks provides the possibility to directly use the calculated data from the unfolding for CAM-programming with PN4000 due to the fact that geometric and specific manufacturing data are available at the push of a button. To create such an XML-file, use the command Create unfolding and select as target WiCAM-file. The XML file contains

- unfolding geometry
- information about bendings and bendinglines (angle, radius, shortening and position)
- engraving
- tool information (ident number, postion, adjustment and side) for included formings
- dimensions - (esp. length and angel)
- user defined attributes

http://www.sheetmetalworks.de/en/232/wicam_interface

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SPI GmbH
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22926 Ahrensburg
Tel. 04102 70 60

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48149 Münster

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Bielefeld
Bremen
Hannover

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