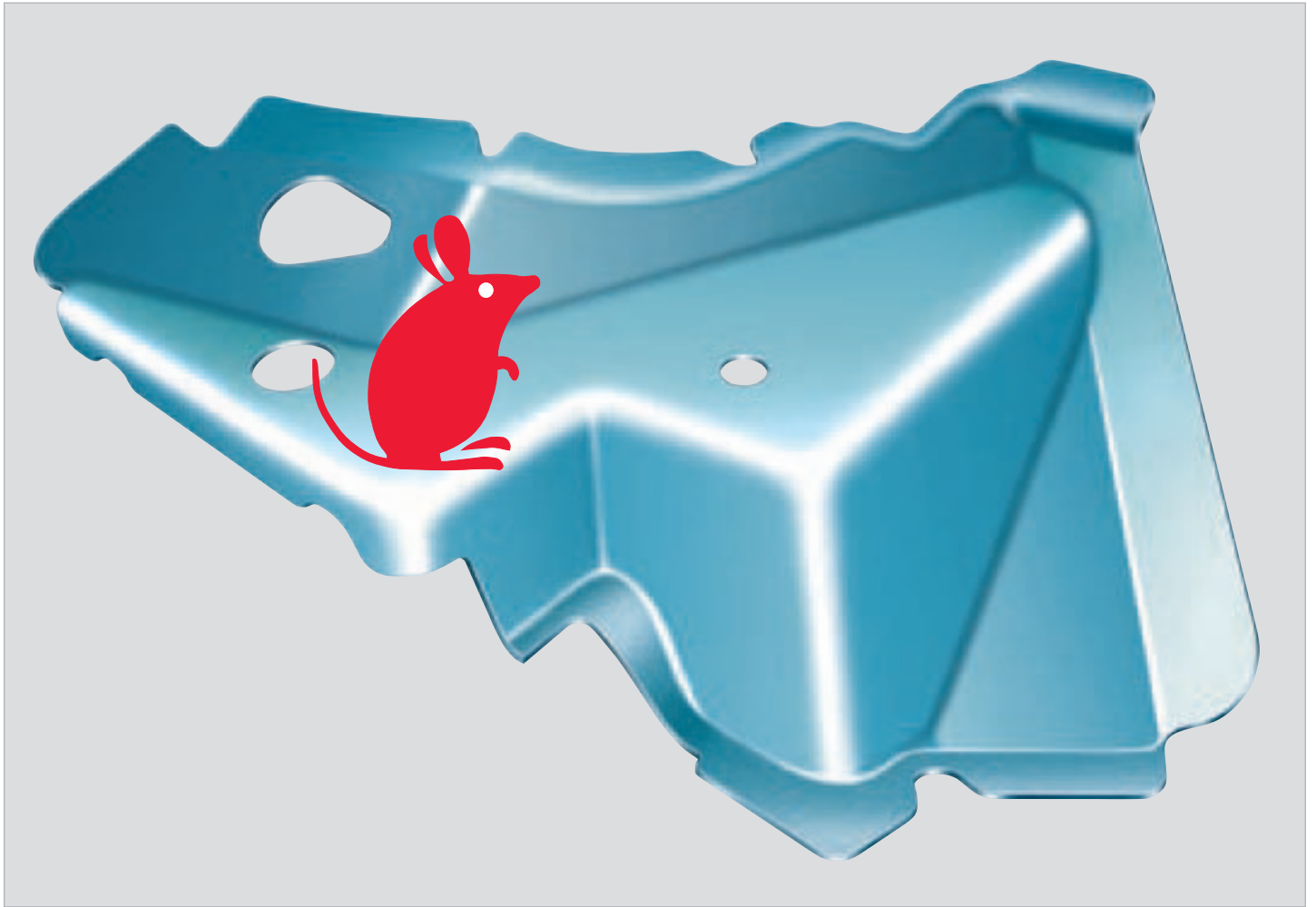
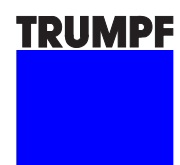


## Controlling Machines with the Mouse

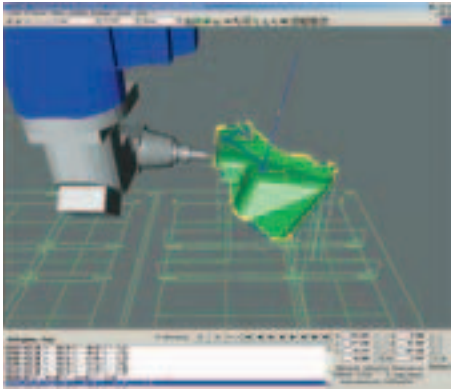


TRUMPF Programming System  
for 3D Laser Processing

**ToPs 800**



# ToPs



# 8000

**The term "sheetmetal process chain" describes the process involved in manufacturing a sheetmetal part from the idea to the finished part. Consistency in the production phases, from design to manufacturing, is a significant factor in the optimization of quality and efficiency.**

ToPs 800 is a technology-oriented programming system developed especially for TRUMPF 3D laser processing centers. The program is the vital link between design and manufacture.

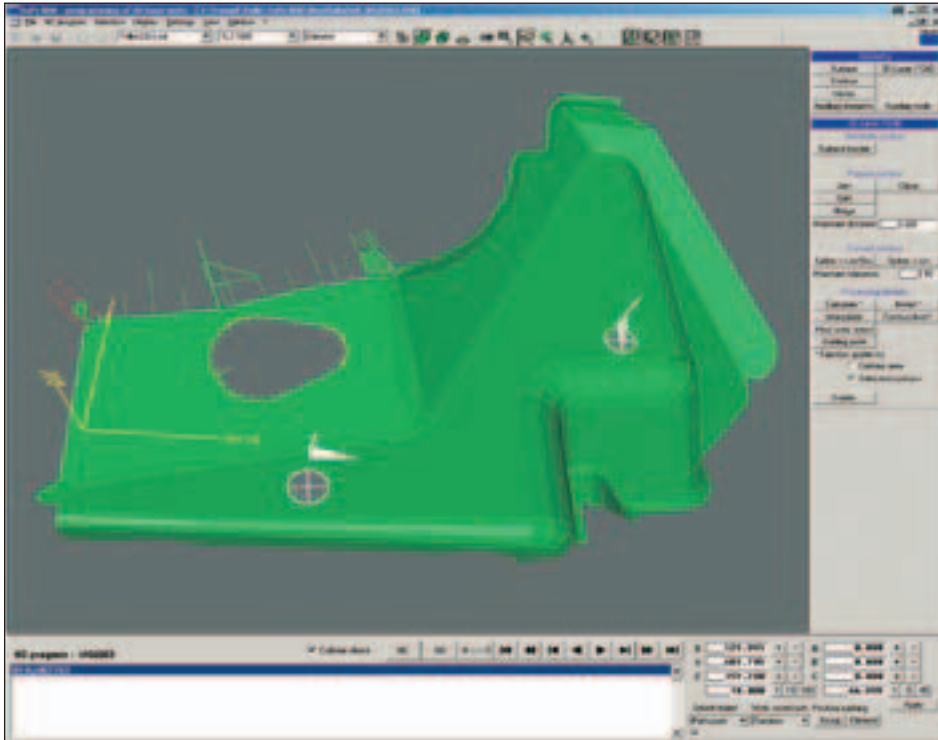
Complex processing tasks, simulations and the production of jigs and fixtures are simplified significantly by the use of ToPs 800.

ToPs 800, with all of TRUMPF's expertise, lends support in the efficient processing of 3D parts with

- Laser tables
- Best possible coordination with TRUMPF 3D laser processing centers.

With ToPs 800, you work offline from the processing center. This reduces down-times on machines. The time-consuming "teaching" of a new part is a thing of the past.

# State-of-the-art technology with ToPs Input

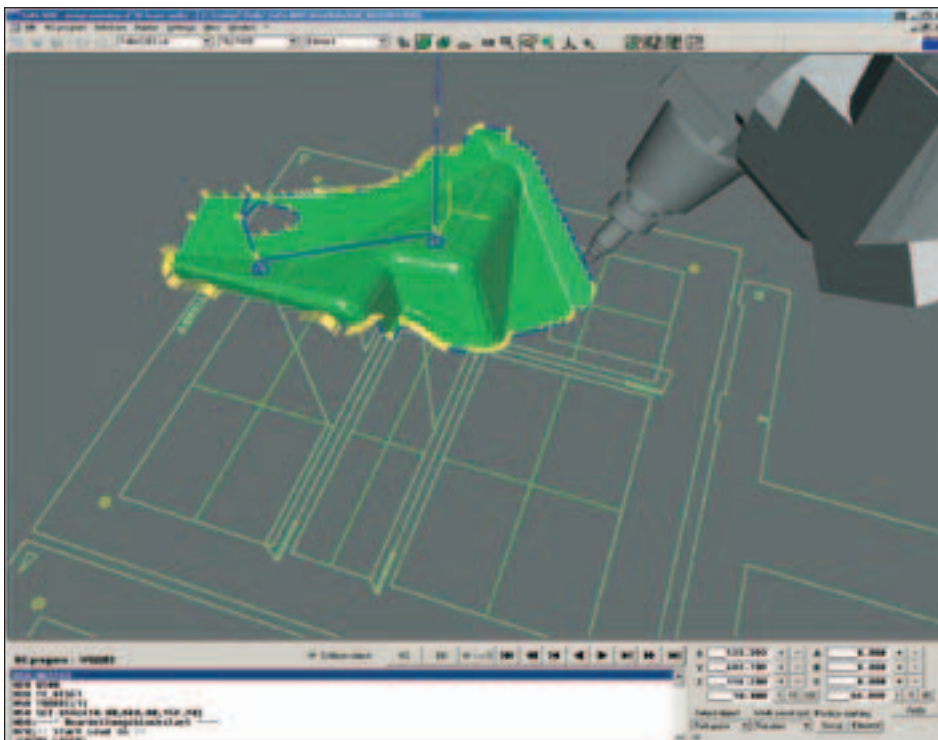


ToPs 800 is a flexible system. It supports the simple transfer and comfortable processing of your 3D – CAD data from IGES, VDA/FS, SAT, STL, DXF and CATIA version 4.2 and V5.

Some processing possibilities are:

- Checking and updating of imported CAD-models.
- Positioning the part in the workspace or determining a new axis system through calibration.
- Creating and expanding geometries on the model.
- Automatic circular interpolation of the 3D cutting contour (CIP).
- Automatic recognition of standard contours (e.g. circles, oblong holes, rectangles) and returning them as machine macros.
- Automatic part edge recognition.

# Output



ToPs 800 quickly, reliably and automatically generates the NC program from the CAD model.

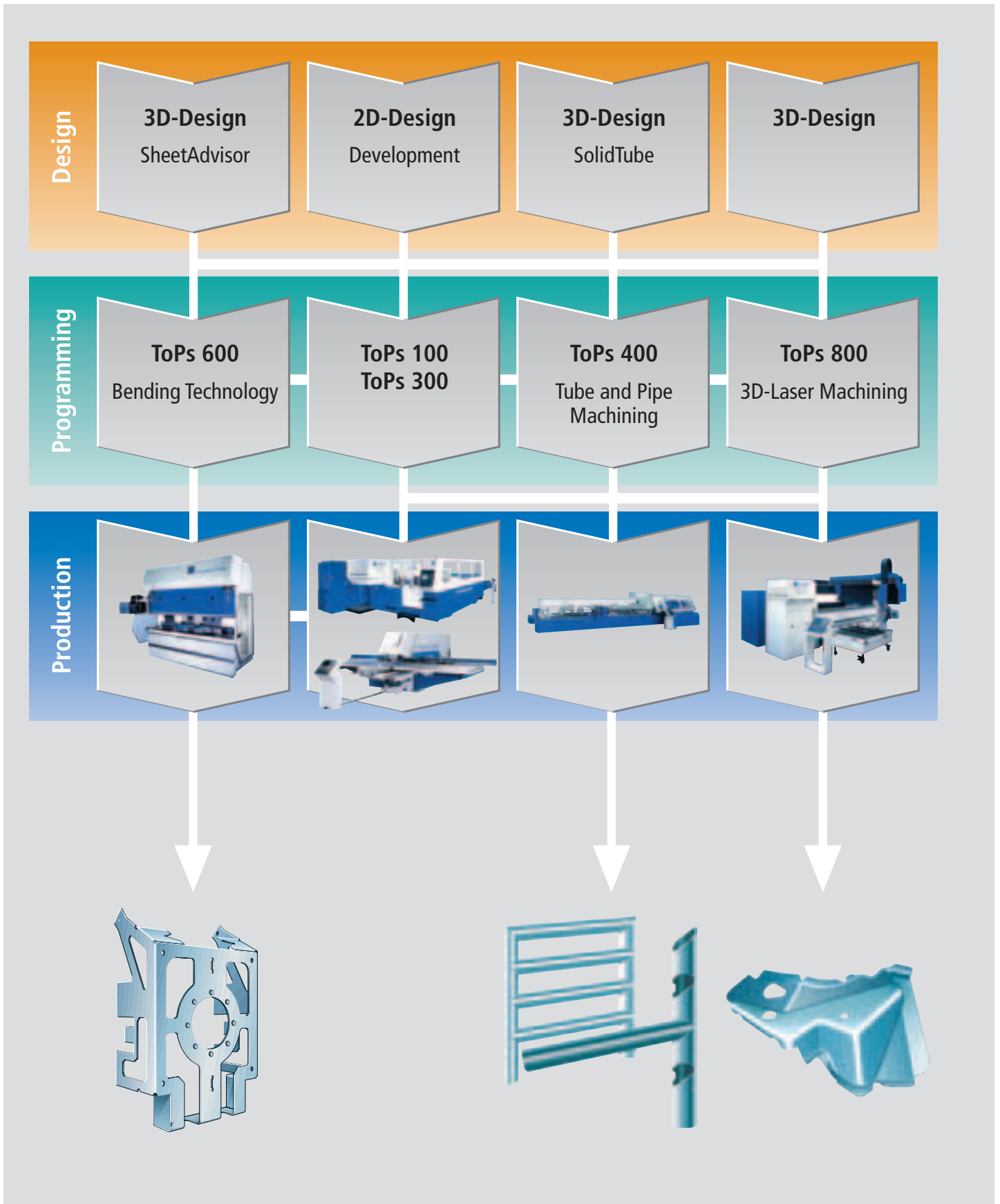
- ToPs simulates the tool path, anticipating collisions. Path interferences between laser head and part are displayed and can be automatically prevented.
- The generated NC code is continuously synchronized with the 3D graphics. Changes can be made both in the NC data as well as in the 3D graphics.

Laser processing of 3D parts often requires special fixtures. With ToPs 800 you can

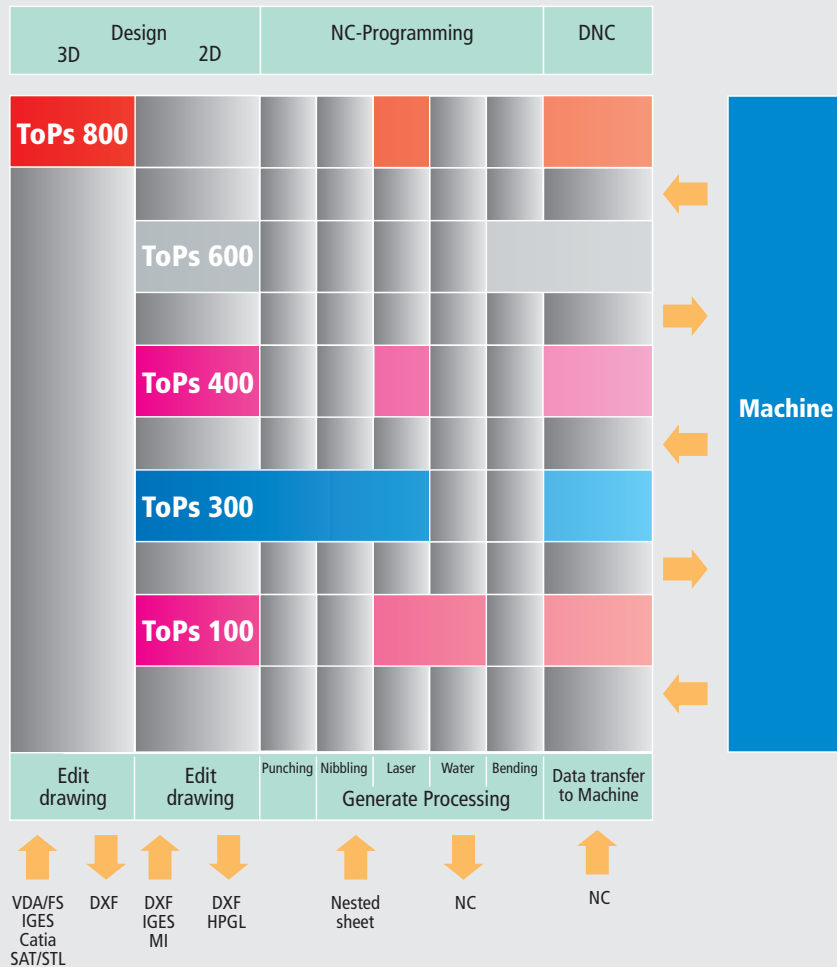
- automatically define your own fixtures,
- generate the NC program for the parts and
- cut right away on the machine.

# The Sheet Metal Processing Chain

## From the Idea to the Finished Product

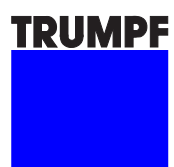


# The ToPs Series: Support for Every Technology



The programming systems from the ToPs series support the machining technologies of all TRUMPF machines.

- Programming system for Bending Technology:  
ToPs 600
- Programming system for Combination  
Punching and Laser Processing:  
ToPs 300
- Programming systems for 2D Laser Machining  
and Water Jet Cutting:  
ToPs 100
- Programming systems for Tube and Pipe Machining:  
ToPs 400
- Programming systems for 3D Laser Machining:  
ToPs 800



TRUMPF Werkzeugmaschinen  
GmbH + Co. KG  
P.O. Box  
D-71252 Ditzingen

Phone +49 (0) 7156 303-0  
Telefax +49 (0) 7156 30 33 09  
E-mail [info@de.trumpf.com](mailto:info@de.trumpf.com)  
Internet [www.trumpf.com](http://www.trumpf.com)