



intelligence
with software

Bystronic

Bysoft

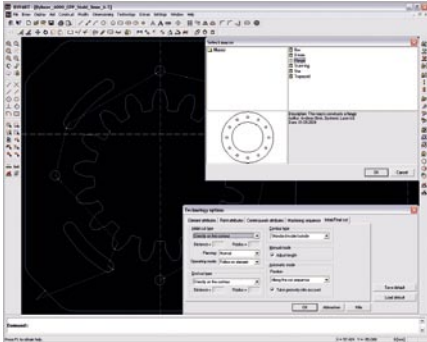
The backbone of your process chain

- Laser cutting
- Waterjet cutting
- Bending

Software for sheet processing

Bypart – Constructing individual 2-D parts

- Standard module



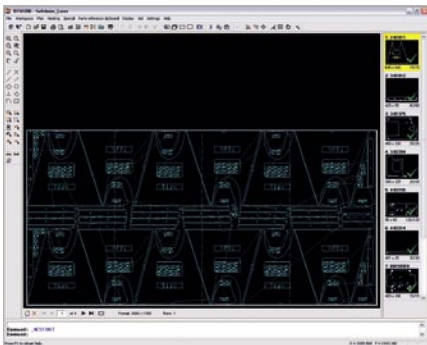
Using Bypart, individual parts can be constructed quickly and to perfection, and also adapted. It is specifically designed for the laser and waterjet cutting processes.

Benefits

- Drawings can be constructed extremely simply
- Imprecise drawings can be effectively corrected
- Optimal cutting technology at the press of a button
- Data import formats: DWG, DXF, IGES, MI

Bywork – Creating cutting programs

- Standard module



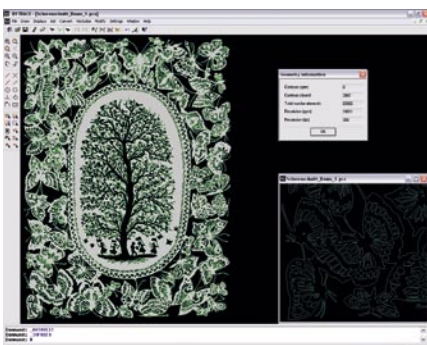
Bywork creates outstanding cutting programs. Thanks to the use of refined nesting strategies, the maximum, technically possible use is made of the raw material.

Benefits

- Individual parts can be nested automatically, semiautomatically as well as manually. This permits flexible and highly efficient solutions for use of the metal sheet
- Shared cutting edges reduce the amount of material required
- Control of third-party machines (optional using postprocessors)

Bytrace – Vectorization of pictures

- Optional module



Thanks to the simplest of operating procedures, Bytrace easily vectorizes picture and graphics data into individual geometries.

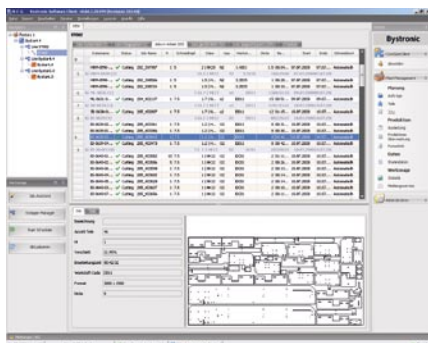
Benefits

- Free forms from pictures and drawings, silhouettes et cetera, can be easily prepared for the cutting process
- Data import formats: PCX, BMP, TIFF, JPEG, PNG

Laser cutting ■
 Waterjet cutting ■
 Bending ■

Plant Manager Cutting – Unrivalled efficiency for order processing and production

■ Optional module



Guaranteed delivery deadlines coupled with the latest possible triggering of the processing of an order. This increases the number of orders available when preparing the cutting plans and hence the degree of material usage. The PMC arranges the cutting plans according to material, cutting head and nozzle thus ensuring reduced non-productive time. Furthermore, it permits efficient resource management including pending maintenance work.

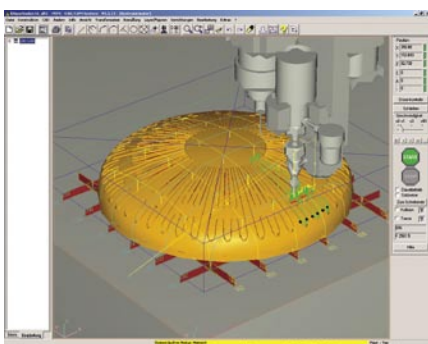
Benefits

- Automated order and CAD data processing as well as feedback of production data
- Efficient and transparent order processing, guaranteed delivery deadlines and operator-knowledge-independent planning
- Optimal use of materials and machine as well as maximum process reliability
- Transparent and traceable production data available at all times

Laser cutting ■
 Waterjet cutting ■
 Bending ■

3-axes CAD/CAM

■ Optional module



The 3-axes CAD/CAM package permits the cost-efficient production of simple formed parts. This often makes the investment in a 5-axes waterjet system and the complex and time-consuming 5-axes programming unnecessary.

Benefits

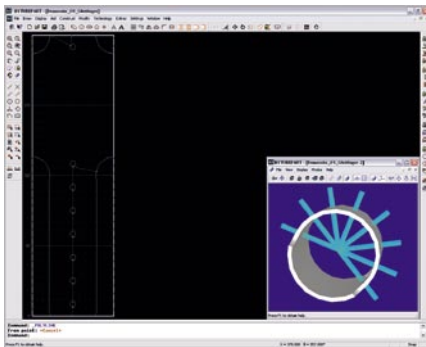
- 3-axes processing, cutting of formed parts
- The user stands out from the competition and increases the attractiveness of his company for his own customers
- Thanks to the 3-axes CAD/CAM software, simple formed parts can be produced even without the use of 5-axes technology
- The associated clamping devices can easily be constructed from sheet metal and manufactured on the user's own waterjet cutting system

- Laser cutting
- Waterjet cutting
- Bending

Software for processing tubes

Bytubepart – Parameterized construction of tube parts

- Standard module



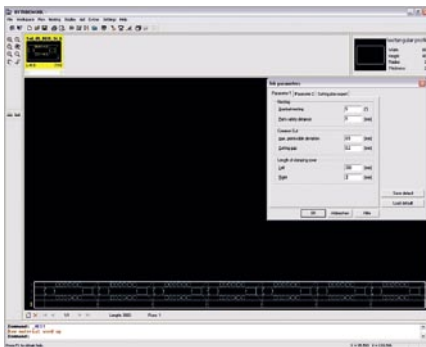
Bytubepart constructs simple and parameterized elementary tube designs. Cutting geometries are calculated for circular, rectangular and other regular polygon tubes.

Benefits

- 3-D representation of the tube part for visual checking
- The optimal cutting technology is determined and defined at the press of a button

Bytubework – Creation of tube-cutting programs

- Standard module



Bytubework permits the flexible nesting of tube processing. These programs can be generated automatically, semi-automatically and also manually.

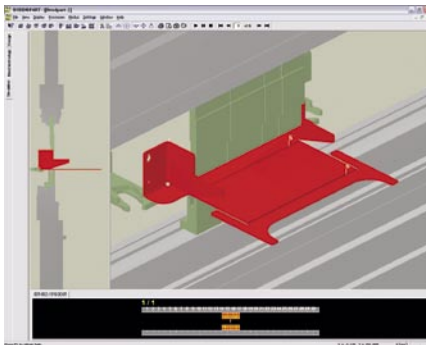
Benefits

- Shared cutting edges reduce the amount of raw material used
- Calculation of cutting times as an aid for production planning

Software for bending

Bybendpart – Program practice-oriented bent parts offline

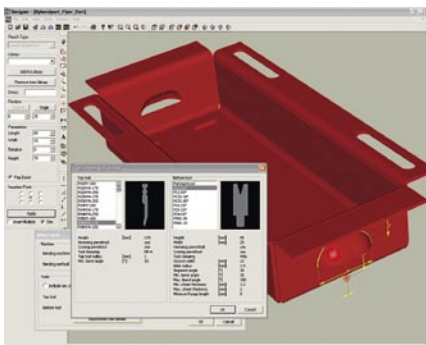
■ Standard module



Bybendpart is the answer to the question why it is no longer worthwhile to program bent parts on the machine. Thanks to this software, reliable bending process data for pressbrakes in the Hämmerle and Beyeler series can be generated easily and in the twinkling of an eye, since Bybendpart is transparent and easy to use.

Benefits

- No unnecessary idle times due to the programming on the machine
- Quicker and easier production thanks to optimized handling of the parts
- The bending sequence is determined automatically and suggested to the user
- Manual adaptations are possible at any time
- Significantly reduced preparation time



However, Bybendpart is also a designer with which production-oriented bent parts can be parameterized logically and modeled in 3-D.

Benefits

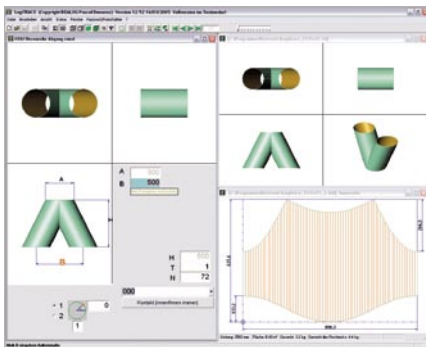
- Custom-fit modeling of sheet bent parts thanks to comparison with machine data
- The placement and taking into consideration of 3-D deformations guarantee process-secure production data
- The blank size is determined on the basis of the tools used
- Incorrect 2-D files can be converted to production-quality 3-D data
- Data import formats: DWG, DXF, MI, SAT, STEP, IGES, SolidWorks and Inventor

- Laser cutting
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Add-on programs

LogiTRACE – Generation of heating, ventilation and air-conditioning components

- Optional module



LogiTRACE is the standard module for the generation of flat patterns for the production of components for heating, ventilation and air-conditioning.

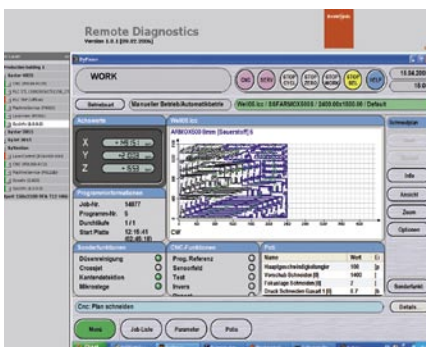
Benefits

- Complicated components can be implemented simply
- Processes are exported in the DXF format
- Laborious manual preparations, such as scribing, are no longer necessary

- Laser cutting
- Waterjet cutting
- Bending

Remote diagnostics – Tracing of process abnormalities

- Optional module



With the aid of remote diagnostics, maintenance work can be prepared more quickly and selectively and machine downtime reduced even further.

Benefits

- Shortest reaction times in the event of failures
- Minimal downtimes optimize the productivity of the machines

Laser cutting ■
Waterjet cutting ■
Bending ■

Bysoft – The backbone of your process chain

Bysoft is the program package developed by Bystronic for all cutting and bending processes. Bysoft embodies the highest of efficiency: It is optimally tuned to Bystronic machine systems and more than any other software permits the optimum use of all aspects of the cutting and bending technologies.

same time offers highperformance. Bysoft facilitates rapid programming and supports the user ideally with tailor-made functions as well as with a universal system structure.

Bysoft is the genuine implementation of operational practice at the software level. It is user-friendly, logical, easy to learn, and at the

Benefits

- Simplest importing of data from CAD systems
- Rule-based technology assistant defines cutting technologies at the press of a button
- Fast single-part programming and efficient nesting
- Processing of 3-D models from any 3-D CAD system
- Calculation of the bending process data and adaptation of the blank size to the bending tools used
- Effective connection to ERP/PPS systems

System requirements typical for the industry

Bysoft can be simply and cost-effectively integrated into your IT environment. The requirements are oriented to the normal industrial standards: Microsoft Windows 2000 or higher, and a TCP/IP network are the technical basis for the deployment of Bysoft.

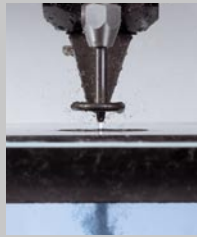
Bystronic is a worldwide active supplier of application-oriented systems and services for the laser and waterjet cutting processes, as well as bending: economical, high-performance, reliable.



Laser cutting
Laser cutting systems for the innovative processing of a wide variety of materials and geometries



Bending
3-point and air bending machines for high-precision working of sheet metals



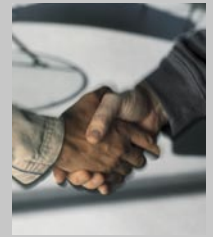
Waterjet cutting
Waterjet cutting systems for cutting metals, glass, synthetics, ceramic, and many other materials



Automation
High-performance handling and automation solutions from simple loading systems to fully automated laser production cell with integrated storage system



Software & Control
User-friendly programming and operation with requirement-oriented application programs and interfaces to CAD and ERP systems



Service & Support
Competence and customer proximity with after-sales support available worldwide: local contact persons, prompt delivery of spare parts, and professional training courses

Your contact

www.bystronic.com