

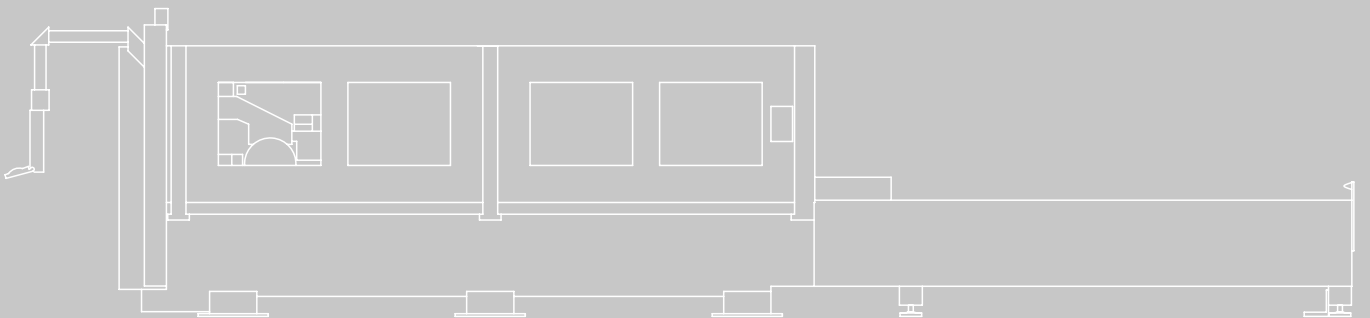
Bystronic



efficiency in laser cutting

Bysprint

The flexible system for
efficient laser cutting



Bysprint – economic, efficient, reliable

A highly reliable cutting system is a basic requirement for the on-time processing of orders. With Bysprint, Bystronic's proven technology guarantees reliability along with exceptional cutting efficiency. Performance, efficiency, and reliability deliver lower operating costs and high return on your investment. In line with its laser power, Bysprint is most effective for users who are processing mainly light gauge sheet metal materials and occasional material thicknesses.





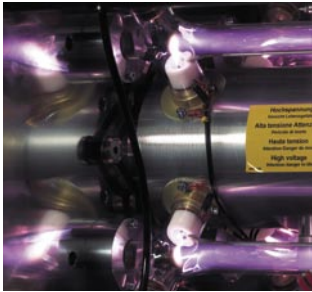
⚠ DANGER

INVISIBLE LASER RADIATION
Avoid eye or skin exposure to direct or scattered radiation

 **BYSTRONIC CO., laser 10, 6 μm**
Max. Output Power: 4500 W
Max. 1 Joule in 100 laser Pulses
Class II Laser Product

Important components

Strong individual players form an ideal basis, but to build a championship team, you need more: perfect teamwork. Sophisticated components that are perfectly attuned to one another distinguish Bysprint. The successful principle “Everything from one source” is brought to bear here too: we develop all the essential building blocks for process reliability ourselves; the result is systems you can depend on.



Laser beam source

Bysprint is offered with various laser powers. Regardless of its performance output, each Bystronic resonator is kinematically suspended, temperature-stable and ensures a constant beam quality.



Cutting head

Short set-up times permit a high level of utilization of Bysprint. Just two cutting heads are necessary (5 inches and 7.5 inches) in order to be able to cut the whole range of sheet thicknesses. This significantly reduces the frequency of cutting-head changes and hence the down time of the system when compared with others.

Bysprint's quick-change system allows the cutting head to be changed in a matter of seconds, minimizing set-up time.



Operator terminal

On the touchscreen of the operator terminal, precisely the functions are made available that are required at a given moment. Thus the menu operation is easy and user-friendly. The terminal and the user interface are designed consistently according to ergonomic standards.



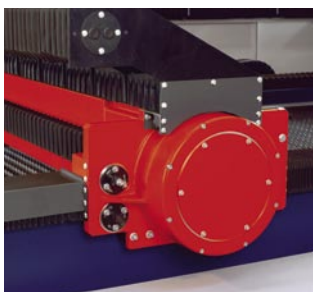
ByVision high-performance control

Bystronic's ByVision high-performance control sets standards with respect to simplicity and speed. Even large cutting plans can be transferred to the machine within a few seconds. The hardware components are located in a single, compact box, which can be changed out completely for another one during maintenance work in the shortest possible time.



Bysoft CAD/CAM software

Bysoft is the CAD/CAM software package developed by Bystronic for cutting and bending. Optimally attuned to Bystronic systems, this software ensures the fullest possible implementation of the cutting and bending technologies used. Bysoft is user-friendly and practically oriented and it supports work preparation ideally with quick programming. The user's work becomes easy thanks to need-oriented functions and a system structure that extends across all software modules.



Drive

Direct drive motors deliver high torque and acceleration even at low speeds. Fast and accurate positioning of the cutting bridge provides high-quality parts and full production rates.

Expansion possibilities

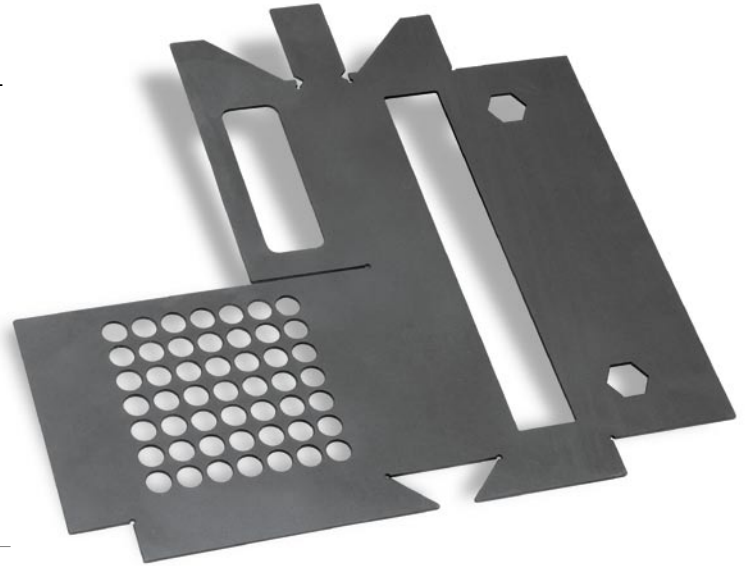
- Adaptive optics with automatic setting for a constant focus position
- Handling and automation solutions ranging from simple loading to completely automated systems with storage/retrieval of cut parts as well as raw material inventory
- Various gratings
- Tactile sensing for cutting non-conducting materials

Service & Support

Bystronic's proven technology and extensive expertise produce systems that are extremely reliable. With its global network of specialized service and training experts and comprehensive spare parts inventories in the local markets, Bystronic guarantees that it will support what it sells. In addition to maintenance, spare parts delivery, and repair services, customers are also offered training programs as well as hardware, software, and operational support so that they are in a position to get the most from their machine investment.

Areas of application

In line with its laser power, Bysprint can be used for sheet metal thicknesses of up to 0.750 inch, but provides its greatest effectiveness in the processing of light gauge sheet metal. It offers efficient cutting for a multitude of specific applications: from the automobile industry, machine construction and farm machinery, apparatus engineering and through to the electronics industry.



Furniture industry

Rear panel for office furniture
0.059 in. mild steel



Machine construction

Support for a laser source
0.187 in. mild steel

Machine construction

Adapter strip
0.312 in. mild steel





Electronics industry

Cover

0.098 in. mild steel galvanized



Appliance industry

Control disk

0.078 in. aluminum

Architectural/machine construction

Cover for selector buttons, elevator

0.059 in. stainless steel



Customer benefits

- Increased process reliability with Cut Control: in-process monitoring and automatic adjustment of the cut conditions
- Full integration with Bysoft CAD/CAM software including automation and bending, for process optimization from CAD file to formed part
- Savings in time and material with ability to resume a cycle at the same position where it was interrupted
- Increased precision with automatic detection of the position of the sheet edge
- Ability to take advantage of innovative assembly concepts such as tab/slot or close-fit snap-together assemblies that require high-precision cutting
- Problem-free manufacture even of thin webs and ribs
- Labelling of the parts using laser engraving
- Selective optimization of cutting parameters to alter cutting conditions depending on requirements of the customer or the application of the part being processed
- Lower parts costs with efficiently designed cutting processes and low purchase price
- Customized and reliable cutting technology thanks to Bystronic expertise



This brochure may show parts that are not included in the standard equipment, but rather are available as options. To get a better view of machine details, some safety equipment has been opened or removed for the pictures. The right to make changes to measurements, construction, and equipment is reserved. For technical data, see separate data sheet.

Certified in accordance with ISO 9001

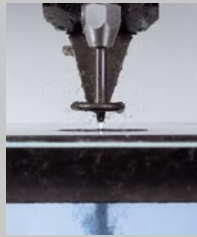
Bystronic is a worldwide active supplier of application-oriented systems and services for the laser and waterjet cutting processes, as well as bending: economical, high-performance, reliable.



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



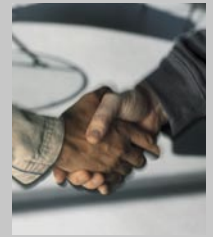
Waterjet cutting
Waterjet cutting systems for cutting metals, glass, synthetics, ceramic, and many other materials



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 applications 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