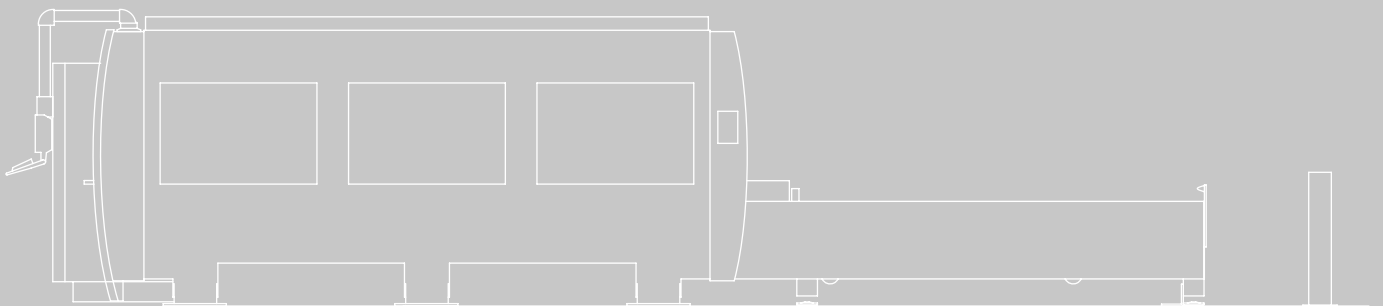


Bystronic

efficiency in laser cutting

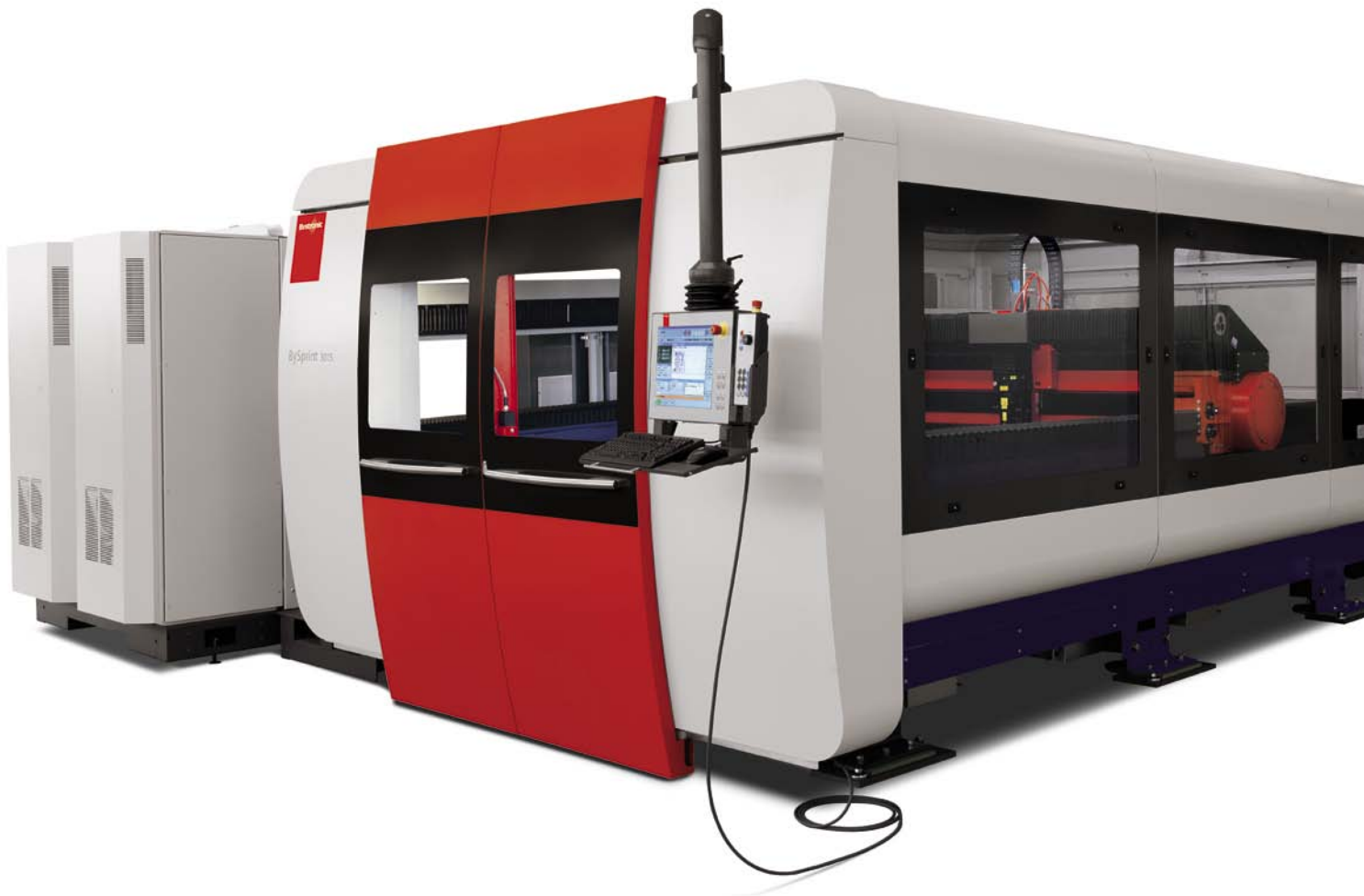
BySprint

Economical laser cutting system, primarily for applications up to one quarter inch



BySprint – focused and economical

BySprint is the optimal system for users who would like to focus on cutting parts up to one quarter inch sheet thickness. Depending on the laser source, it is also possible to process thick sheets up to 0.750 inch. Thanks to its high machine dynamics, the BySprint impresses with short cutting time per part. In addition, the minimal operating costs paired with the extraordinary efficiency of the entire system allow extremely economical order processing. Thus a clear competitive advantage is achieved.





Important components

Strong individual players are an ideal basis, but in order to have a winning team, you need more: perfect coordination. Proven components that are perfectly attuned to one another distinguish the BySprint. Here, too, the successful Bystronic motto “everything from a single source” is brought to bear: all of the building blocks essential for process reliability come from Bystronic’s own development and ensure a persuasive system.



Laser beam source

The BySprint is offered with various laser powers. Regardless of its performance output, each Bystronic resonator has kinematic bearings, is temperature stable, and ensures a constant beam quality.



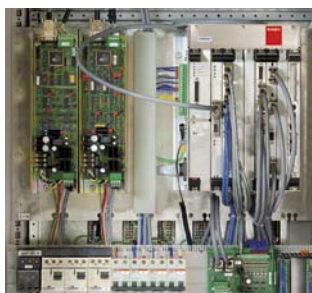
Cutting head

Short set-up times enable high utilization of the BySprint. Only two cutting heads (5 inches and 7.5 inches) are required in order to be able to cut the entire range of sheet thicknesses. This considerably reduces the frequency of the cutting head change and thus the downtimes of the system as compared to other systems. In addition, the BySprint is equipped with a quick-change system with which each cutting head can be changed within a few seconds.



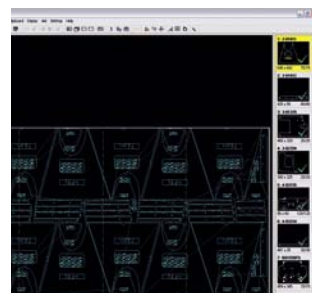
Operator terminal

On the touch screen of the operator terminal, only the functions that are required at a given moment are made available. Thus the menu guidance is easy and user-friendly. The terminal and the user interface are designed strictly according to ergonomic standards.



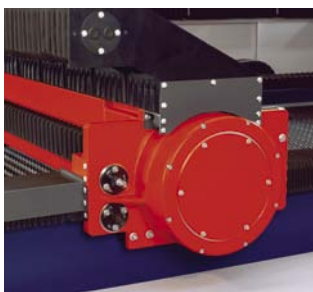
ByVision high-performance control

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 exchanged 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 fast programming. The user's work becomes easy thanks to customized functions and a system structure that extends across all software modules.



Drive

The dynamic drive via direct drive motors also guarantees high RPM and acceleration values even at low speeds. The result is fast and precise positioning of the cutting bridge.

Expansion possibilities

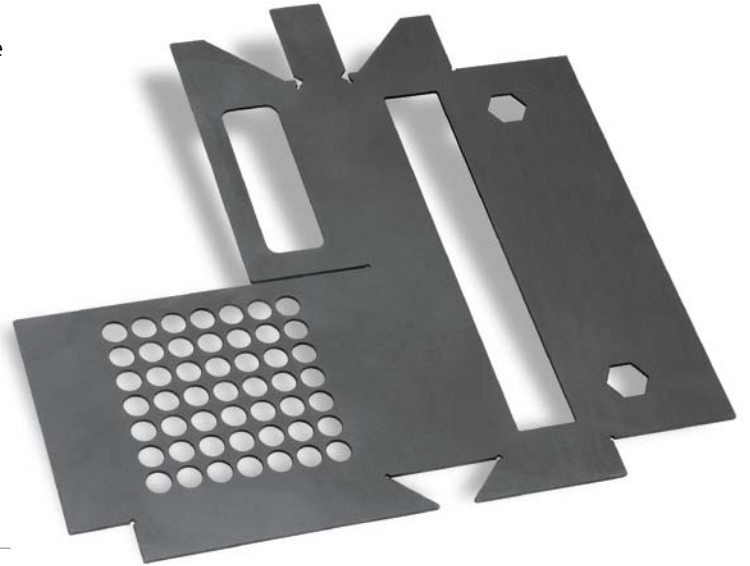
- ▀ Adaptive optics with automatic adjustment for a constant focus position (standard ByLaser 3300)
- ▀ Handling and automation solutions, especially automatic sheet loading and unloading, automatic parts sorting, automatic sheet storage
- ▀ Various grates
- ▀ Tactile sensing when cutting non-conductive 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 use all the possibilities of the systems for their competitive advantage.

Areas of application

Depending on its laser power, the BySprint can be used for sheet thicknesses up to 0.750 inch; however, it achieves its greatest effectiveness with the processing of sheets up to one quarter inch. It impresses with efficient cutting for a multitude of specific applications, from the automotive industry to machine manufacturing and agricultural machinery manufacturing to the appliance industry on through to the electronics industry.



Furniture industry
Rear panel for office furniture
0.059 in, mild steel



Machine manufacturing
Support for laser source
0.187 in, mild steel

Machine manufacturing
Adapter strip
0.312 in, mild steel





Electronics industry
Cover
0.098 in, galvanized mild steel



Appliance industry
Control disk
0.078 in, aluminum



Machine and system construction
Cover for selector buttons, elevator
0.059 in, stainless steel

Customer benefits

- The latest cutting and piercing technologies such as RPP ensure the greatest productivity (ByLaser 3300)
- High cutting speeds thanks to compressed air cutting up to a material thickness of 0.120 inch (ByLaser 3300)
- Direct drive motors drive the axes accurately and with high acceleration values
- Great parts accuracy thanks to warp-resistant Y axis and constantly high beam quality
- The new power saving mode function reduces the electrical power consumption of the entire laser cutting system by up to 50 percent in stand-by operation (ByLaser 3300)
- Very low operating costs due to wear-free excitation and blower with wear-free magnetic bearings (ByLaser 3300)
- Extremely low start-up time of just five minutes (ByLaser 3300)
- Lower costs and constantly high quality of the laser gas thanks to the utilization of LASERMIX® 312 (ByLaser 3300)



This brochure may show parts that are not standard equipment, but are available as options. For the better visibility of machine details, some safety covers may have been opened or removed for these pictures. The right to make changes to dimensions, construction, and equipment is reserved. For technical data, see separate data sheet.

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.

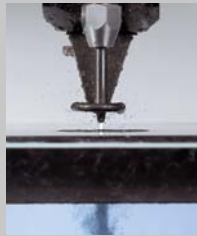
Best choice.



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

bystronic.com