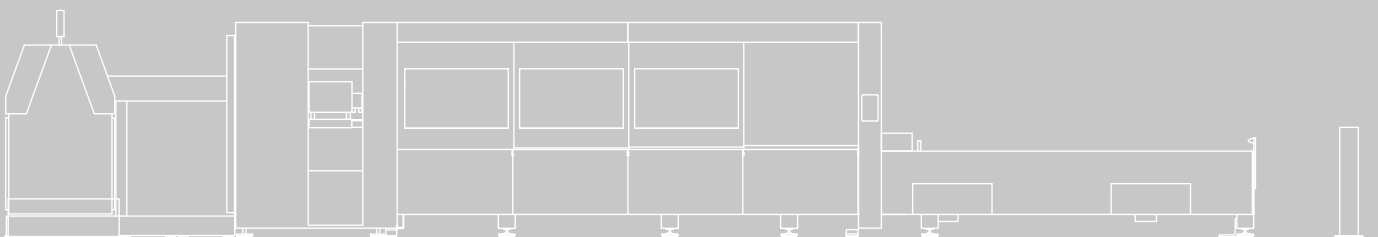


Bystronic

efficiency in laser cutting

BySpeed Pro

Dynamic, economically efficient
package for the highest reliable
output of cut parts



BySpeed Pro – dynamic, efficient, indispensable

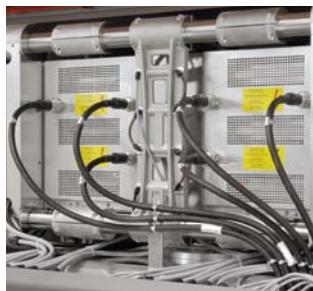
BySpeed Pro is the dynamic, economically efficient package for the highest reliable output of cut parts. This laser cutting system impresses with its pure dynamics and up to six kilowatts of power, which is generated with low operating costs. This is ensured by high efficiency wear-free semiconductor excitation and a blower equipped with magnetic bearings. The BySpeed Pro owes its unique productivity across the entire range of sheet thicknesses to the latest cutting technologies, the highest speeds, the lowest cutting times, and its outstanding process reliability. These features make the BySpeed Pro indispensable for modern sheet processing.





Important components

The perfect coordination of individual components that are proven and attuned to one another forms the base for a first-class machine system with great customer benefits. "Everything from a single source" is Bystronic's motto, and this also applies to the BySpeed Pro: All system elements essential for process reliability come from Bystronic's own development and ensure an impressive solution with the highest customer benefits.



Laser sources ByLaser 4400 and ByLaser 6000

The ByLaser optionally delivers 4.4 or 6 kilowatts of power to the machine and guarantees a permanently high beam quality. It benefits with extremely low operating costs thanks to its efficiency wear-free semiconductor excitation and wear-free blower with magnetic bearings.



Cutting head

The cutting head optimally supports the applied cutting technologies, including the extremely effective regulated pulsed piercing (RPP) process. Thanks to the quick-change system, the cutting head can be changed in just seconds. The cleaning of the nozzle takes place automatically.



Parts conveyor

For the easy and convenient discharge of small parts and scrap from the cutting area, an extremely robust parts conveyor is used with the BySpeed Pro. Thanks to the clever protective plate system, the machine frame is shielded from damage. Individual protective plates can be produced and exchanged on the laser cutting system very easily.



Automatic nozzle changer

The automatic nozzle changer ensures the changing of the cutting nozzle in just seconds. No operator intervention is required for this. Together with the automatic lens cassette changer, the BySpeed Pro achieves matchless autonomy for the greatest production efficiency.



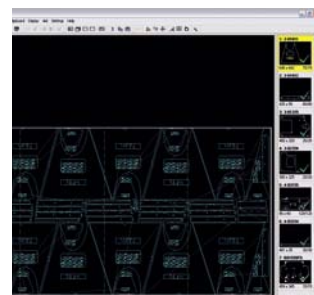
LCC – automatic lens cassette changer

The automatic lens cassette changer enables continuous, lightly-manned laser production. The machine automatically selects the optimal lens cassette for the order from the four-space magazine.



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.



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.

Expansion possibilities

- Automatic nozzle changer
- Automatic lens cassette changer
- Additional crosswise-arranged parts conveyor with which small parts and scrap can be conveyed into a container placed next to the machine
- Handling and automation solutions, especially automatic loading and unloading, as well as fully automatic sheet storage

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

The BySpeed Pro captivates with its unique dynamics and its formidable positioning speeds, which result in the shortest cutting times per part. Thanks to the latest cutting technologies, this system achieves a reliably high parts output across the entire range of sheet thicknesses and puts the user in a significantly better competitive position. With the scanning mode, for example, it is possible to cut up to 350 rectangles per minute.



Automation

Guide rail

0.120 in, aluminum

Food processing industry

Paring knife

0.160 in, stainless steel

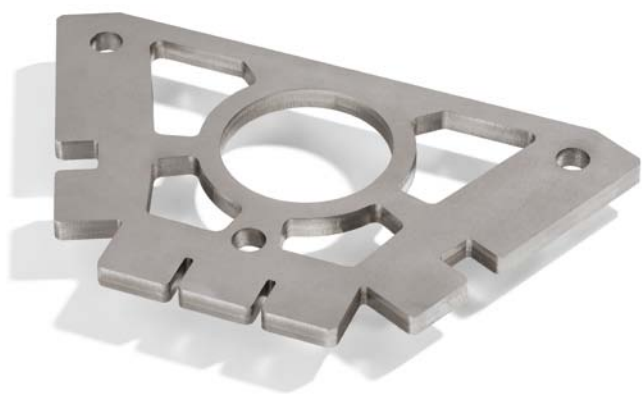


Commercial vehicle construction

Brace

0.400 in, mild steel





Mechanical engineering
Support plate
0.600 in, stainless steel

Agricultural machinery construction
Sprocket wheel
1.000 in, mild steel



Customer benefits

- Flexible and lightly-manned operation, which is ensured by the latest machine automation and the simplest operation
- The newest cutting and piercing technologies such as RPP ensure the greatest productivity
- Worry-free operation thanks to great process reliability and low operating costs
- The wear-free blower equipped with magnetic bearings and the wear-free excitation guarantee low operating costs
- The power saving mode function reduces the electric power consumption of the laser cutting system by up to 70 percent in standby operation
- Optimal access and the greatest safety in the entire working area
- Ergonomic and secure operating concept thanks to enclosed cutting area and easy-running, robust safety door



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.

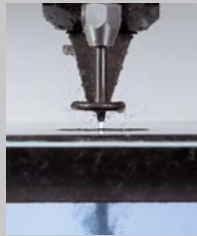
Best choice.



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