

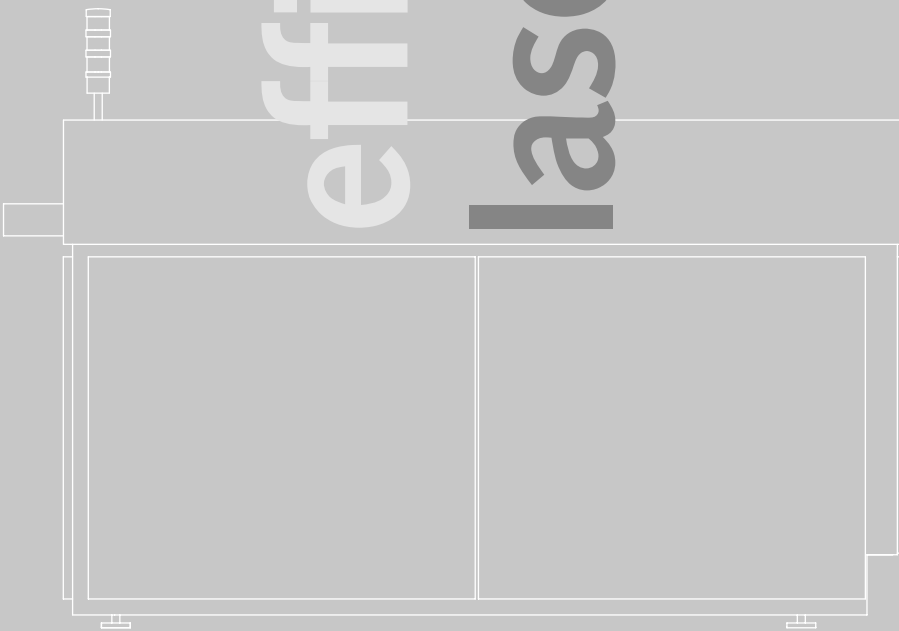
Bystronic



efficiency in laser cutting

Bylaser 5200 ARC

High-performance laser with ARC beam optimization and state-of-the-art semiconductor power supply



Bylaser 5200 ARC – innovative, powerful, accurate

In the power segment to which it belongs (> 5 kW), the latest generation of the laser resonator Bylaser 5200 ARC is a class of its own! The constant high output power of 5200 W, coupled with the innovative Adaptive Radius Control (ARC), guarantees the best results from the piercing to the cutting performance and cutting quality, and through to the process security. This leads to a marked saving of time of up to 30% when manufacturing parts. The Bylaser 5200 ARC combines the proven Bystronic know-how and the integration of all process-related core components (CNC, laser source and DCM semiconductor power supply) from a single source.

Cutting performance

Bystar 3015, Byspeed 3015	
Steel	up to 25 mm
Stainless steel	up to 20 mm
Aluminium	up to 12 mm

High cutting performance

- The integrated Adaptive Radius Control (ARC) provides automatic optimization of the beam diameter for all sheet metal thicknesses and materials as well as in the complete cutting range
- The precise positioning control of the laser permits extremely fast changes in performance for microsteps, flying piercing and «scanning».
- The high, controlled and hence constant output power ensures the efficient and clean cutting of all standard materials
- When using thin sheet materials, accelerated piercing direct on the part contour creates a further time saving

High efficiency

- Reduction in the manufacturing costs of prefabricated parts through the very high cutting performance
- The synergies of all process-related core components (CNC, laser source and DCM semiconductor power supply with individually optimized discharge modules regulation) makes the innovative «scanning» possible (with up to 30% time saving)
- The state-of-the-art, abrasion-free DCM 415 semiconductor power supply (without pentode tubes) guarantees minimum consumption of electricity and saves on maintenance costs



Process security

- Constant beam quality and hence cutting quality, thanks to the newly developed high-performance optics in the resonator as well as within the beam guidance and through to the machine's cutting head
- Extended, less user-intensive operation thanks to improved process security

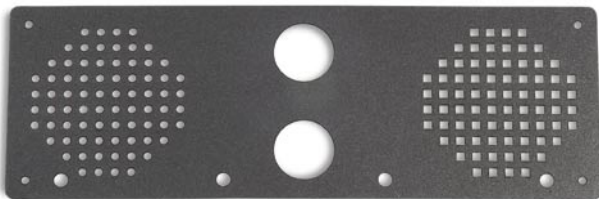
User friendliness

- Extremely compact design
- No additional control cabinets for the laser resonator, gas mix unit and power supply and hence less space is required
- Operation and diagnostics using Laserview via the touch screen on the operating terminal



Performance characteristics at a glance

0–5200 W regulated continuous power rating in 3-shift operation
 Pulse frequency 1–2500 Hz



Cabinet engineering
 Faceplate
 1 mm, structural steel

Apparatus engineering

Retaining plate
 3 mm, structural steel



Chemical industry

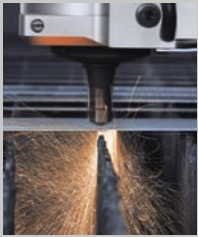
Centering device
 20 mm, stainless steel



Vehicle construction
 Reversing lever
 12 mm, aluminium

This brochure may show parts that do not belong to the standard equipment but which are available as options. In order to permit the details of the machine to be more clearly identified, safety covers have in some cases been opened or removed. Changes to dimensions, construction and equipment are reserved.

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.



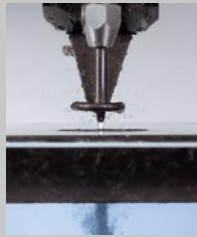
Laser cutting

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



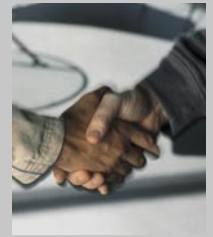
Automation

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

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