

Bystronic

Bystronic laser sources from 2.2 to 6 kW: the right choice for all applications



Bystronic – everything from one source

For the development of laser sources, Bystronic pursues the principle “everything from one source”: the resonators, control unit, and application software have all been developed specially by Bystronic. This ensures that these key components are attuned perfectly to one another, the advantages of the laser source can be realized to their fullest, and maximum process reliability is achieved. Thus Bystronic customers enjoy clear market advantages.

Bystronic laser sources

When it comes to laser sources, Bystronic offers its customers many high-performance solutions. Regardless of which model customers select, they can always rely on future-oriented and practical technologies that will meet their needs.

All Bystronic laser sources offer customers significant benefits, including:

- Wear-free semiconductor activation
- Precision and speed thanks to optimal parameter stability and performance control as well as the most up-to-date cutting technology
- Reliable adherence to deadlines thanks to maximum process reliability and availability of the equipment
- Economic production thanks to optimized efficiency and the highest productivity

Bystronic laser sources deliver optimal laser beam quality, the best cutting results, and the right performance.

Laser sources	Bylaser 2200	Bylaser 3000	Bylaser 4400	Bylaser 5200 ARC	ByLaser 6000
Maximum thicknesses					
Steel O ₂	15 mm	20 mm	25 mm	25 mm	25 mm
Steel N ₂	4 mm	6 mm	8 mm	10 mm	12 mm
Stainless steel quality	6 mm	12 mm	12 mm	12 mm	15 mm
Stainless steel plasma	n.a.	n.a.	20 mm	20 mm	25 mm
Aluminum	5 mm	8 mm	12 mm	12 mm	15 mm
Laser gas consumption					
Helium	25 NI/h	35 NI/h	25 NI/h	25 NI/h	20 NI/h
Nitrogen	12 NI/h	18.5 NI/h	12 NI/h	12 NI/h	8 NI/h
Carbon dioxide	1.2 NI/h	1.5 NI/h	1.2 NI/h	1.2 NI/h	1.6 NI/h
Guaranteed initial performance					
	2200 W	3000 W	4400 W	5200 W	6000 W
Pulse frequency	1 to 2500 Hz	1 to 2500 Hz	1 to 2500 Hz	1 to 2500 Hz	1 to 2500 Hz
Pulse width	0.1 to 999 ms	0.1 to 999 ms	0.1 to 999 ms	0.1 to 999 ms	0.1 to 999 ms
Wavelength	10.6 μm	10.6 μm	10.6 μm	10.6 μm	10.6 μm
Laser stimulation	Wear-free DC semiconductor activation	DC tubes activation	Wear-free DC semiconductor activation	Wear-free DC semiconductor activation	Wear-free HF semiconductor activation
Electrical consumption [kW] according to machine datasheet					
Dimensions					
(L x W x H) [mm]	1945 x 910 x 1220	3155 x 800 x 1700	2630 x 920 x 1590	2630 x 920 x 1590	2200 x 1100 x 1750
Weight	1400 kg	1500 kg	1800 kg	1800 kg	1900 kg

Changes to dimensions, construction and equipment are reserved. Certified in accordance with ISO 9001

Your contact
www.bystronic.com