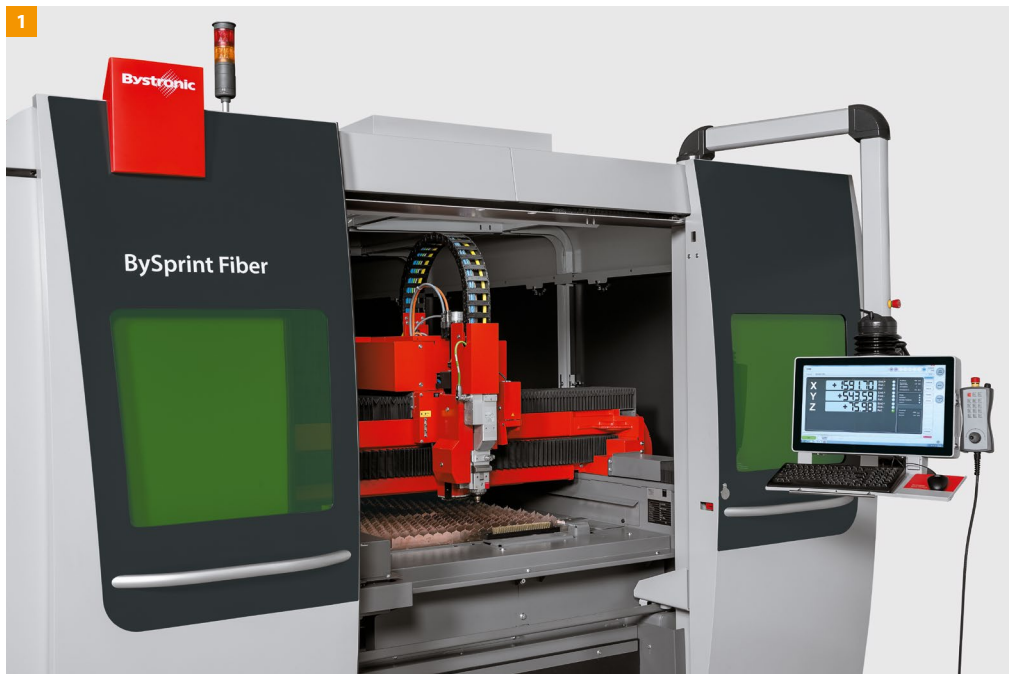


BySprint Fiber 12020

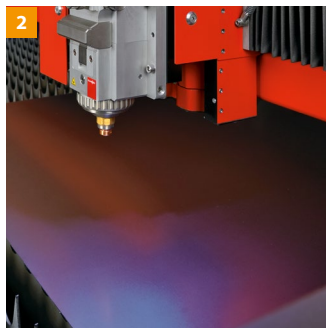
Highest productivity for competitive fiber laser cutting

Customer benefits

- High degree of material utilization thanks to extra-long sheet formats up to 473 inch in length
- Wide spectrum of applications for steel, aluminium and other non-ferrous metals. With up to 6 kilowatts of laser power, stainless steel is cut with high precision up to a material thickness of 1.18 inch
- Fiber laser technology reduces operating costs by eliminating the need for laser gas and reducing power consumption
- Automated process solutions (optional) for fast loading and unloading as well as for sheet metal handling shorten the job processing time even further



- 1 Access at the front
- 2 Detection Eye
- 3 Detection Eye
- 4 Nozzle changer
- 5 Cutting head with automatic focus position adjustment

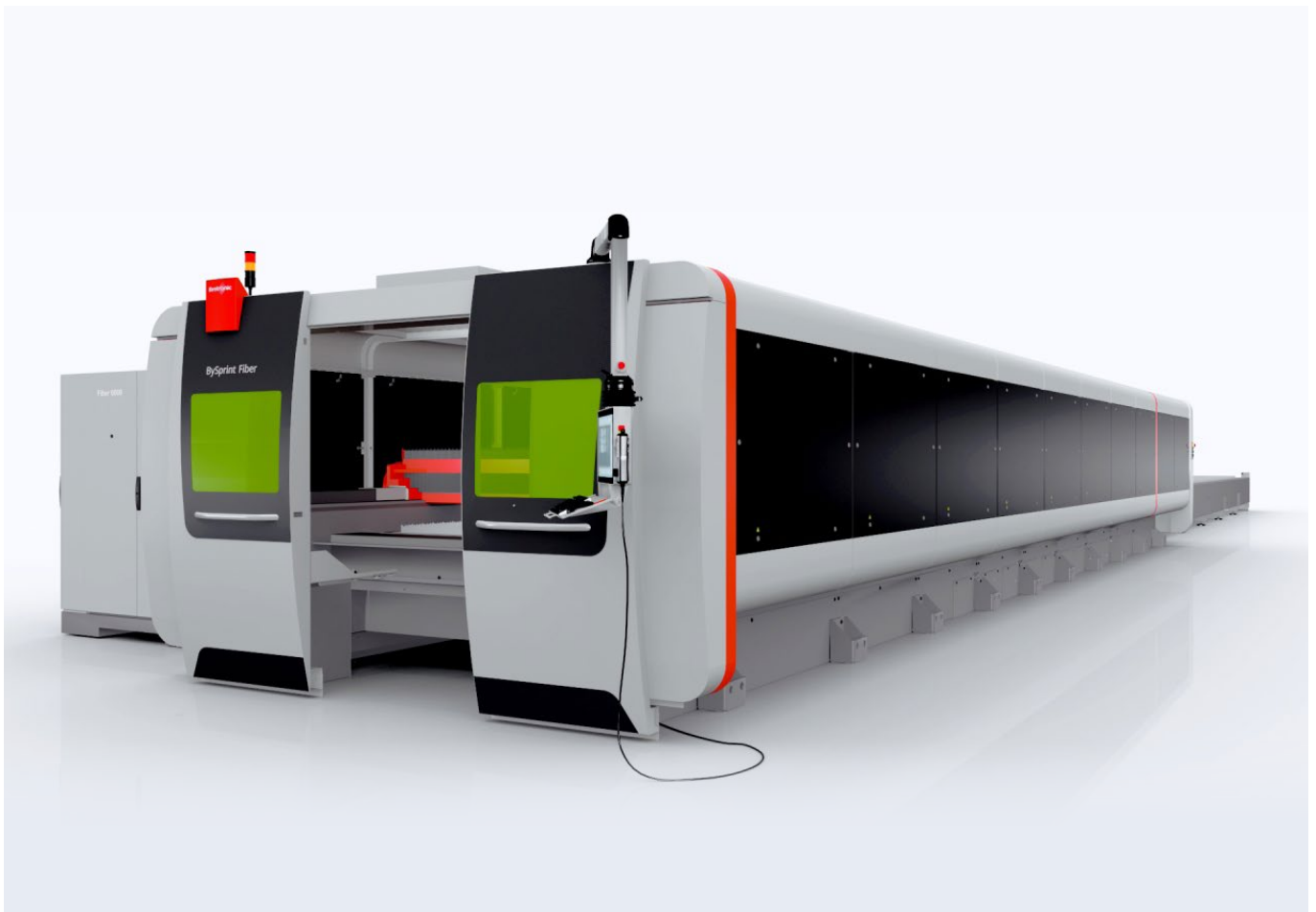


**BySprint Fiber
12020**

Nominal sheet size	473 × 78 inch
Max. simultaneous positioning speed	5,511 in/min
ByVision Touchscreen operation and manual control unit	■



BySprint Fiber 12020 Technical Data





		BySprint Fiber 12020
Length		1,240 inch
Width		260 inch
Height		100 inch
Nominal sheet size (X)		473 inch
Nominal sheet size (Y)		78 inch
Cutting area (X)		485 inch
Cutting area (Y)		80 inch
Cutting area (Z)		2.75 inch
Max. positioning speed parallel axis X/Y		3,937 inch/min
Max. simultaneous positioning speed		5,511 in/min
Positioning accuracy Pa (±) *		0.004 inch
Repeatability Ps (±) *		0.002 inch
Max. workpiece weight		10,600 lbs
Machine weight (without exhaust, chiller and conveyor)		83,890 lbs
Operation	ByVision Touchscreen and manual control unit	

Laser source	Fiber 3000	Fiber 4000	Fiber 6000
Power	3,000 W	4,000 W	6,000 W
Range of adjustment	300–3,000 W	400–4,000 W	600–6,000 W
Wavelength	Fiber	Fiber	Fiber
Steel (max. cutting sheet thickness) **	0.75 inch	0.75 inch	1 inch
Stainless steel (max. cutting sheet thickness) **	0.5 inch	0.625 inch	1.18 inch
Aluminum (max. cutting sheet thickness) **	0.5 inch	0.625 inch	1.18 inch
Brass (max. sheet thickness) **	0.25 inch	0.312 inch	0.59 inch
Copper (max. sheet thickness) **	0.25 inch	0.312 inch	0.47 inch
Total electric consumption of system (with exhaust, chiller)	22.7 kW	26.7 kW	31.4 kW

* According to VDI/DGQ 3441 measuring length 1m. The precision of the sheet metal part depends on the material in question and its pretreatment as well as the sheet size and its temperature

** In order to cut the maximum thicknesses, the following conditions must be met:
 - optimally maintained and adjusted laser cutting systems
 - the materials must be of the quality specified by Bystronic (laser materials)

The right to make changes to dimensions, construction, and equipment is reserved. ISO-9001-certified.

The technical data can vary in the different countries, according to local security rules and configuration of the machine.



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