

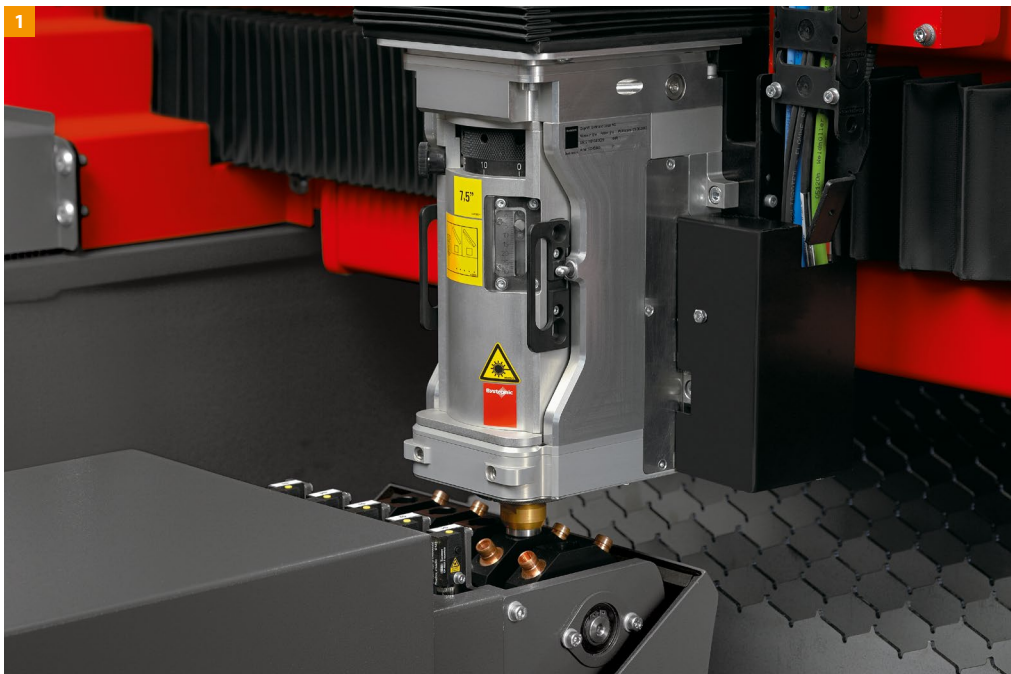


# BySprint Pro

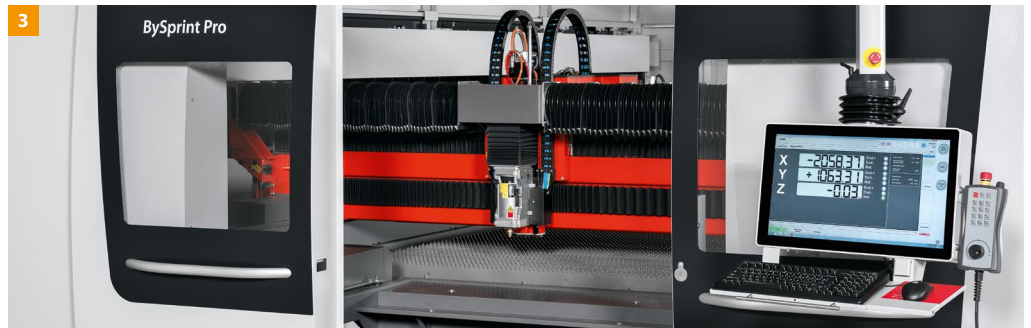
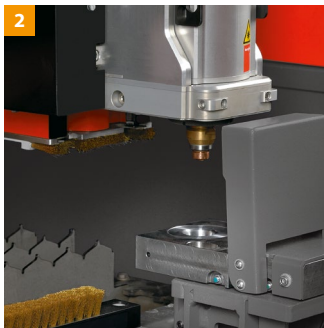
**Excellent cutting quality with high cost-effectiveness**

## **Customer benefits**

- Cost-effective CO<sub>2</sub> laser cutting for world-class cutting quality in the entire range of sheet metal thicknesses
- Tried-and-tested cutting and piercing technologies combined with high machine dynamics ensure a smooth cutting process
- Highest level of productivity thanks to laser outputs up to 6 kilowatts and automated functions for uninterrupted cutting. 78 percent higher parts output with the 4020 machine format
- The low energy consumption reduces parts costs and increases operational energy efficiency
- Additional functions such as automatic nozzle changing and Collision Detection reduce the processing time of cutting jobs



- 1 Nozzle changer
- 2 Nozzle centering
- 3 Best accessibility



	BySprint Pro 3015	BySprint Pro 4020
Nominal sheet size	3,000 × 1,500 mm	4,000 × 2,000 mm
Max. simultaneous positioning speed	140 m/min	140 m/min
ByVision Touchscreen operation and manual control unit	■	■



# BySprint Pro Technical Data





	BySprint Pro 3015	BySprint Pro 4020
Length	10,400 mm	13,050 mm
Width	6,500 mm	7,050 mm
Height	2,450 mm	2,450 mm
Nominal sheet size (X)	3,000 mm	4,000 mm
Nominal sheet size (Y)	1,500 mm	2,000 mm
Cutting area (X)	3,048 mm	4,064 mm
Cutting area (Y)	1,524 mm	2,032 mm
Cutting area (Z)	70 mm	70 mm
Max. positioning speed parallel axis X/Y	100 m/min	100 m/min
Max. simultaneous positioning speed	140 m/min	140 m/min
Positioning accuracy Pa (±) *	0.1 mm	0.1 mm
Repeatability Ps (±) *	0.05 mm	0.05 mm
Max. workpiece weight	750 kg	1,580 kg
Machine weight (without exhaust, chiller and conveyor)	12,000 kg	15,000 kg
Operation	ByVision Touchscreen and manual control unit	

## Laser source

## ByLaser 4400

Power	4,400 W
Range of adjustment	150–4,400 W
Laser source dimension L	2,840 mm
Laser source dimension W	920 mm
Laser source dimension H	1,580 mm
Weight	1,600 kg
Technology	CO <sub>2</sub>
Steel (max. cutting sheet thickness) **	25 mm
Stainless steel (max. cutting sheet thickness) **	20 mm
Aluminum (max. cutting sheet thickness) **	12 mm
Total electric consumption of system BySprint Pro 3015 ***	51 kW
Total electric consumption of system BySprint Pro 4020 ***	53 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)

\*\*\* Entire system with exhaust and chiller

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.



Modern sheet metal processing without high-performance software is unimaginable these days. BySoft 7 offers a comprehensive range of functions and is still easy to operate. With BySoft 7, the user can quickly and easily design tailored parts and create cutting plans and bending programs with the push of a button. On top of that, scheduling and manufacturing monitoring is easy. Planning of changes in production schedule are effortless.

# BySoft 7

**Modular CAD/CAM software with 2D and 3D CAD as well as extensive functions for scheduling and monitoring manufacturing processes**

## Customer benefits

- Existing drawings and models can be input, edited, and processed easily
- Perfect nesting of parts results in reduced costs and full utilization of raw material. Also for tubes and profiles.
- One-click creation of cutting plans and bending programs, that is the most loved feature of BySoft 7. The correct cutting technology is automatically set and the bending process is automatically simulated and monitored
- Scheduling and monitoring manufacturing processes
- All machine and job data are always available
- Connection to ERP/PPS systems



## ByVision Cutting

With ByVision Cutting, laser cutting is as easy as using your smartphone. The user interface is based on a touchscreen. Control the entire cutting process with a few swipes of your finger: Sort the job list, assign cutting parameters, and define automation mode. Then start the process, let your laser do the work. In addition, ByVision Cutting also supports users with its extensive database, which includes parameters for all common sheet types and cutting technologies.

Available for: ByStar Fiber, BySmart Fiber