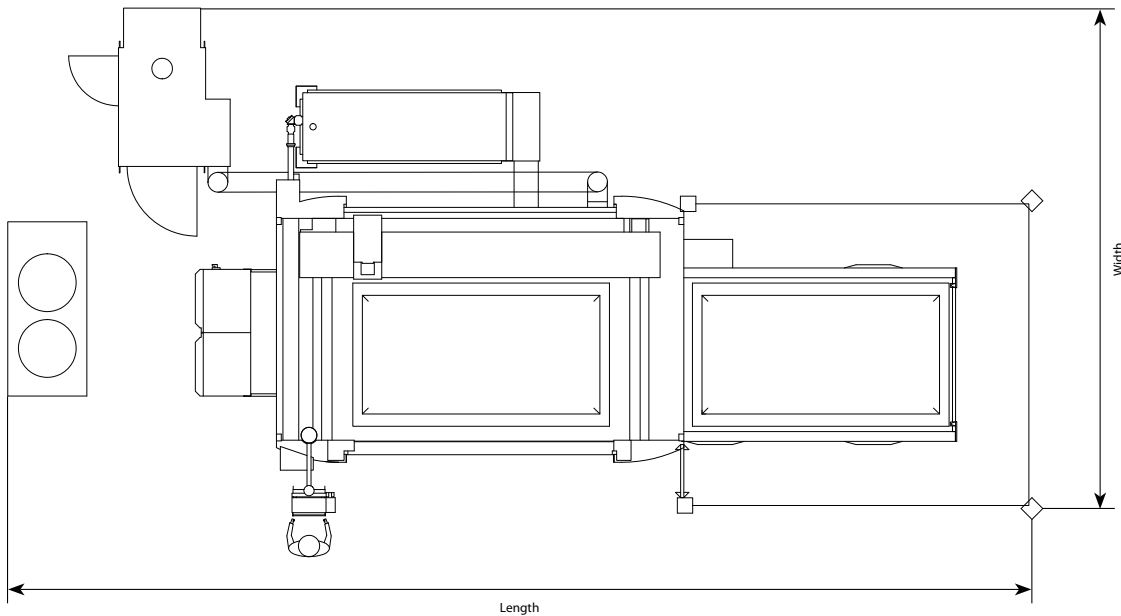
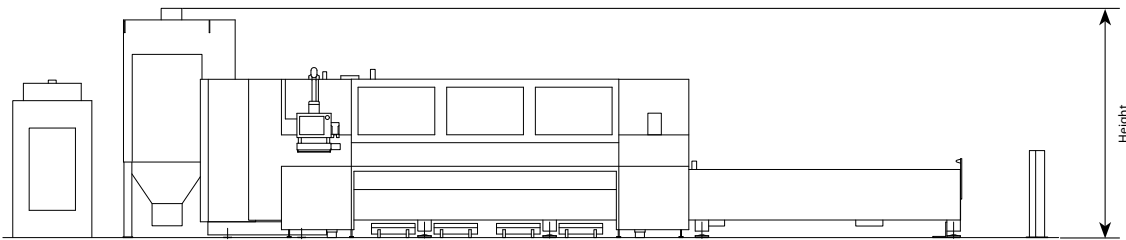


Technical Data

Bystar



| | Bystar 3015 | Bystar 4020 |
|---------------|-------------|-------------|
| Length | 11 500 mm | 13 850 mm |
| Width | 6 450 mm | 7 300 mm |
| Height | 2 350 mm | 2 350 mm |

| Laser cutting system | Bystar 3015 | Bystar 4020 |
|--|--|--|
| Nominal sheet size | x = 3000 mm y = 1500 mm | x = 4000 mm y = 2000 mm |
| Cutting area | x = 3048 mm y = 1524 mm z = 170 mm | x = 4064 mm y = 2032 mm z = 170 mm |
| Maximum positioning speed parallel axis x, y | 80 m/min | 60 m/min |
| Maximum positioning speed simultaneous | 113 m/min | 84 m/min |
| Maximum axis acceleration | 4,5 m/s ² | 3 m/s ² |
| Positioning accuracy Pa* | ± 0,1 mm | ± 0,1 mm |
| Repeatability Ps* | ± 0,05 mm | ± 0,05 mm |
| Edge detection accuracy | ± 0,5 mm | ± 0,5 mm |
| Maximum workpiece weight | 890 kg | 1580 kg |
| Machine weight** | 13 000 kg | 18 000 kg |
| Minimum circumscribed circle of rotary axis | 15–315 mm | 15–315 mm |
| Foundation | normal, reinforced industrial floor according to assembly plan | |
| Cutting heads | | 5" and 7,5" |
| Cutting gas consumption | | depending on material |
| Operation via panel | with 15" touch screen, keyboard and manual control unit | |
| Disk drives | | DVD-RW, USB 2.0 |
| Network connection | | RJ45 connection 10/100 Mbit/s |
| ByVision (see separate datasheet for specifications) | | standard |

| Laser source | ByLaser 4400 | ByLaser 6000 |
|--|--------------|--------------|
| Power | 4400 W | 6000 W |
| Wavelength | 10,6 µm | 10,6 µm |
| Polarization | circular | circular |
| Pulse frequency | 1–2500 Hz | 1–2500 Hz |
| Maximum sheet thicknesses*** | | |
| Steel | 25 mm | 25 mm |
| Stainless steel | 20 mm | 25 mm |
| Aluminum | 12 mm | 15 mm |
| Total electrical consumption of system**** | 51 kW | 78 kW |

* According to VDI/DGQ 3441 measuring length 1 m. 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

** Entire system without exhaust and chiller

*** 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

Bystronic Best choice.

Laser | Bending | Waterjet
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