

Bystronic Bystar Fiber 4020 8KW + ByTrans Extended (Y2020)

Technical data Standard Machine

Construction length approximately [L] 14200mm Construction width approximately [W] 6300 mm Construction height, approximately [H] 3200 mm

Nominal plate size (X) 4000 mm

Nominal plate size (Y) 2000 mm

Cutting range (X) 4105 mm

Cutting range (Y) 2100 mm

Z-axis travel 100 mm

Maximum positioning speed parallel axis X/Y 120

Maximum positioning speed simultaneously 170

m/min m/min Bilateral positioning repetition of an axis R (on behalf of ISO 230- 0.05 2:2006) 0.05 mm

Average, bilateral deviation of an axis M (on behalf of ISO 230-2:2006) 0.25 mm

edge detection accuracy ± 0.5 mm

Maximum workpiece weight 1900 kg table change time 28s

Maximum permitted workpiece weight on both interchangeable tables 3200 kg

Machine weight (without filter and discharge belt): kg 14500

laser source: Fiber 8000

Laser power: 8000 W

Adjustment range: 800-8000 W

Steel (max. cutting sheet thickness) - * with option: 25/30* mm

BeamShaper

Stainless steel (maximum sheet thickness): 30 mm

Aluminum (maximum sheet thickness): 30 mm

Brass (max. sheet thickness): 15 mm

Copper (maximum sheet thickness): 12 mm

Total electrical consumption of the system (without filter and cooler): 42.1KW

1.1ByStar Fiber 4020 Dynamic Edition F8000

1.2 Delivery Summary

1.3 Safety regulations

1.4 Complete documentation

1.5 Bystronic Cutting Head

1.6 Spot Control

1.7 Power Cut Fiber

1.8 Collision Detection

1.9 Automatic Nozzle Centering

1.10 ByPos Fiber

1.11 Cut Control Fiber

1.12 Piercing Jet

1.13 Cleaning the Nozzle

1.14 Laser diode Pointer

1.15 Scanning

- 1.16 Cutting bridge
- 1.17 Changing table
- 1.18 Laser source
- 1.19 Cooler
- 1.20 Tank heating
- 1.21 Additional equipment for tropical areas
- 1.22 Machine control and user environment
- 1.23 Emergency power supply
- 1.24 Condition of reporting
- 1.25 Maintenance Messenger
- 1.26 Cutting plan editor.
- 1.27 Restart Manager
- 1.28 System Manager
- 1.29 Parameter Wizard
- 1.30 OPC Interface cutting
- 1.31 Router
- 1.32 Manual control terminal
- 1.33 Electrical connection
- 1.34 Compression air (machine, laser source, cooler, dust extraction system).
- 1.35 Material specification

Accessories

- Automatic nozzle changer with 64 positions.
- Detection camera
- Entrance door
- Extraction system with 200 liter barrel
- Small parts discharge within the cutting range and cross discharge belt
- Position of control box to be determined further
- Connectivity Kit
- Barcode scanner (94000.0000.0250)
- 5 x Spare Splash Glasses for the Bystar Fiber
- 64 X Nozzles
- Grate cleaner
- BySoft 7 - Basic Applications
- BySoft 7 flat plate machining - 1st license

ByTrans Extended

- The ByTrans 4020 expanded with 2 cassettes incl. copper grids
- Extra suction cup for the plate separation for ByTrans Extended
- Fanning magnet for sheet separation for ByTrans Extended