



- cutting capacity 4.000 W
- table dimensions 4.000 x 2.000 mm
- automatic shuttle table
- tube cutter 6.000 mm

- the state-of-the-art gantry-design laser cutting system with double-sided drive has a generous working range of 4.000 x 2.000 mm and is therefore suitable for the most common sheet metal sizes
- The Y axis portal features an aluminum die-cast construction with low weight and high rigidity for excellent dynamics
- thermal treatment of the meticulously welded machine frame and all structural parts reliably eliminates production-related material stresses – ensuring long-lasting, precise alignment of all components. This ensures long-term and reproducible cutting edge accuracy and long machine life
- The precision linear guides require minimal maintenance and are designed for long-lasting precision and high cutting speeds
- High-performance rack-and-pinion gears on the X and Y axis ensure excellent dynamics and positioning accuracy

- Powerful servo-motors on all axes ensure high reliability and dynamics of the cutter system
- The cutting system features a powerful filter system and is fully enclosed to protect operators and environment
- Cameras with a monitor provided directly at the control panel and special protective glass shields allow safe observation of the cutting process
- An automatic shuttle table system minimizes production downtimes, since the table can be loaded and unloaded during the cutting process
- Perpendicularity or squareness tolerance for laser cutting acc. to DIN EN ISO 9013-1

Control

- Easy operation with user-friendly optimized interface
- Technology database includes cutting parameters and pre-set cycles for various metals
- The efficient processing of all cutting jobs is further supported by user-friendly software for the selection of process parameters
- Solenoid and proportional valves regulate the gas pressures (set in the control) during the cutting process



The 4-jaw chuck at the positionable headstock accepts round and square tubing

ACE Laser 4020 4.0 RS6



Cutter head

- High-quality cutter head made by Raytools with motorized focus position adjustment, integrated collision guard, and level control
- Maintenance-free beam guide is provided by a flexible fiberoptic cable and ensures a long tool life

Laser sources

- The ytterbium fiber laser with 4,000 W beam power is made by the renowned manufacturer, Raycus, and ensures maximum cut quality and productivity
- The maintenance-free laser source reduces maintenance and operating cost

Tube machining

- Tube machining station designed for tubes with 6.000 mm length and 200 mm diameter
- Two mechanical chucks precisely guide the material under the cutter head
- Standard equipment includes CypCut-Tube software, which was design especially for tube cutting
- Drawing data can be imported and exported via the widely used neutral IGES file format.

Preconfigured with an extensive accessory package:

- Automatic shuttle table
- Tube cutter 6.000 mm
- CNC control with CypCut CAD/CAM software
- Ytterbium fiber laser 4.000 W
- Cutter head with automatic focus positioning
- Automatic gas console
- Fully enclosed body with safety glass
- Filtered exhaust system
- Central lubrication system
- Coolant regenerator
- **Laser cutting systems with a cutting length of 6 m and laser power up to 8kW upon request**

Price on request



An automatic changer table system minimizes down-times

Specifications ACE Laser 4020 4.0 RS6

Working area		
Table dimensions	mm	4.000x2.000
Max. workpiece weight	kg/dm ²	6
Axis acceleration X / Y axis	m/s ²	10
Axis acceleration Z axis	m/s ²	8
Travels		
Travel X-axis	mm	2.020
Travel Y-axis	mm	4.050
Travel Z-axis	mm	100
Rapid feed		
X axis rapid feed	m/min	120
Y axis rapid feed	m/min	120
Change time at cutting table	sec	10 - 20
Accuracies		
Positioning accuracy	mm	0,08
Repeatability	mm	0,04
Laser		
Shaft length	µm	1,08 ± 10%
Beam power max.	W	4.000
Pulse frequency	Hz	50~5k
Power consumption	kW	32
Supply voltage		AC 380V
Cutting capacity in structural steel	mm	18
Cutting capacity in stainless steel	mm	12
Cutting capacity in aluminum	mm	10
Tube cutting		
Tube length, max.	mm	6.000
Machining length	mm	1.200
Chuck diameter	mm	210
Chucking range for square tube, min.	mm	20
Chucking range for square tube, max.	mm	150
Chucking range for round tube, min.	mm	20
Chucking range for round tube, max.	mm	200
Offcut	mm	300
Drive capacity		
Machine drive capacity X-axis	kW	1,5
Machine drive capacity Y-axis	kW	2
Machine drive capacity Z-axis	kW	0,2
Measures and weights		
Overall dimensions (length x width x height)	m	12x6x2,5
Weight	kg	18.200
Part No.		423023



Cameras show the user real-time images of the work area and shuttle table behind the machine

Standard Equipment

Tube Cutter, Complete system with CNC-control (CypCut), Ytterbium fiber laser, Raycus, fibre optics, RayTools HP Cutter Head, laser protection booth, automatic changing table system, filter exhaust system, automatic gas console, central lubrication, coolant return cooler, CAD/CAM software (CypCut), operating manual and programming instructions