



Powerline[®] series

LASER
division 

TCIcutting[®]
waterjet & laser systems



Laser precision and reliability

Powerline[®] series

The Powerline CO₂ series laser features a **compact and stable design**. An additional great advantage is the high-frequency excitation that **minimizes the emission of gases and reduces maintenance costs**.

The Powerline series CO₂ laser cutting machine allows easy commissioning and the software, control and programming transform the cutting plans into finished pieces.

This series can be expanded by adding different accessories or automation components that **increase productivity, optimize work processes and improves logistics**.

Models in Powerline CO ₂ Series	Power Output - Resonator	Dimensions
Powerline 3015	Fanuc. Power output from 3.000 W to 6.000 W	3.000x1.500x100 mm
Powerline 4020	Fanuc. Power output from 3.000 W to 6.000 W	4.000x2.000x100 mm



Characteristics	Technical Data Powerline 3015	Technical Data Powerline 4020
Maximum permitted load	950 kg/m ²	950 kg/m ²
Number of cutting heads	1	1
Maximum simultaneous positioning speed	160 m/min	160 m/min
Maximum axial acceleration	14,7 m/s ² (1,5G)	9,8 m/s ² (1G)
Machine Tolerance	± 0.05 mm/m	± 0.05 mm/m
Repeatability precision	± 0.025 mm/m	± 0.025 mm/m
Power Output	From 3.000 W to 6.000 W	From 3.000 W to 6.000 W
Smoke extraction system	Included	Included
Cooling system	Included	Included
Automatic table exchanger	Included	Included
Automatic loader and unloader	Optional	Optional

Specifications

- Acceleration rate: 14,7m/s² (1,5G)
- Maximum simultaneous positioning speed: 160m/ min
- Precision: ± 0.05 mm
- Highly reliable and rigid bridge
- Low gas and electricity consumption
- Latest generation FANUC Resonator technology
- 30-iLB FANUC control
- Secure machine casing for operator protection
- Effective system to change from high to low gas pressure
- System for air drying and filtration
- Changing lenses with interchangeable cartridges of 3.75 “, 5”, 7.5 “, 10”
- Capacitive Sensor, high pressure cutting head
- The best cutting results with constant focal compensation along the compensation axis (B)
- TCI Cutting parameter tables
- Pre-cut protective film
- 3 different cutting technologies for working with different materials and thicknesses
- Power output control function for automatic nesting and machining (corners, lead-ins)
- Automatic time and cost calculation for pieces
- Network connection via external PC
- Automatic table exchanger
- 3 Point reference sensor (sheet rotation detection)
- Piercing Sensor
- Collection of workpieces and trimmings
- Dual proportional valve system for different gas pressures and special system for high pressure cutting

