



LASER  
division 

**TCI**cutting<sup>®</sup>  
waterjet & laser systems



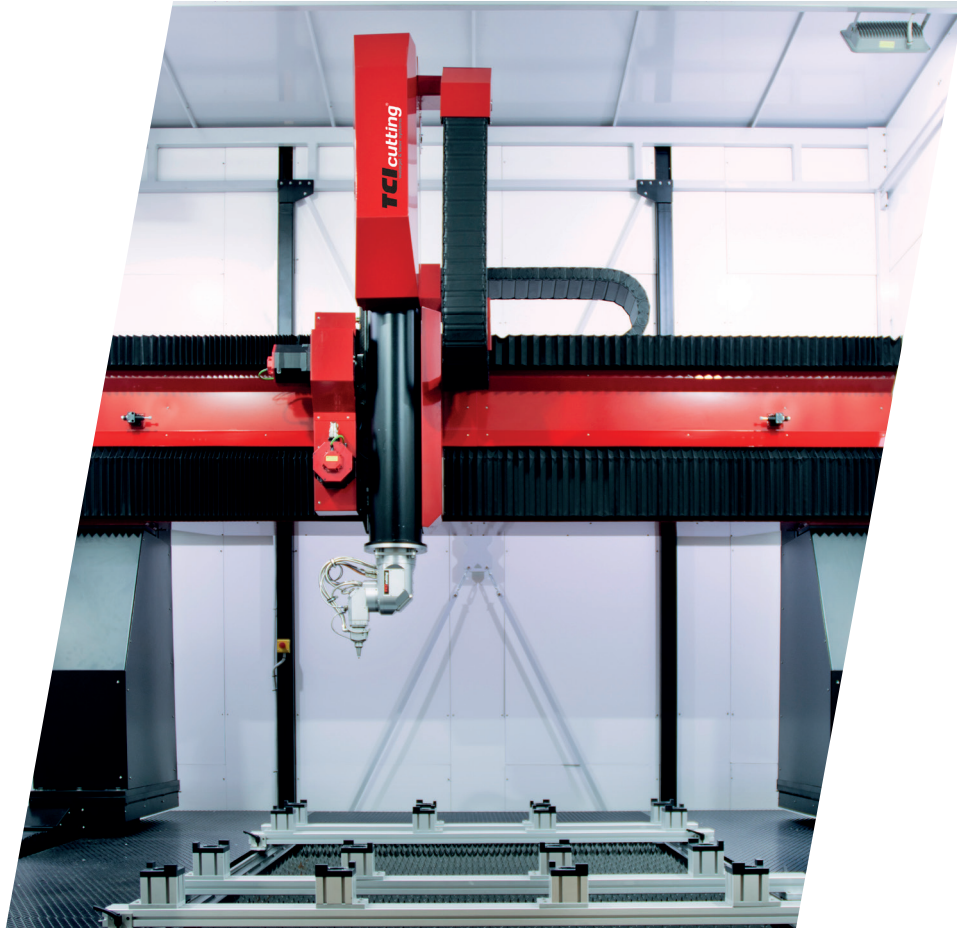
## The intelligent 3D laser cutting solution

TCI Cutting Dreamline Fiber opens up a whole new world of possibilities for 3D production with 5-axis laser cutting. A fully automated system with which the production of complex cuts becomes a simple task. The powerful bridge that houses the 3D cutting head, allows the creation of cutting programs with multiple angles for the same piece, an acceleration of more than 1G and with powers from 700 W to 4.000 W. The 900 mm travel of the Z axis offers infinite possibilities.

The fiber laser source technology is in charge of producing production series at a high speed and at a minimum cost, this system being one of the most complete and intelligent in the market. Its connectivity with digital systems generates an unparalleled production flow.

Versatility and infinite configurations make the Dreamline a machine capable of adapting to the needs of any sector.

Models in the Dreamline Fiber Series	Power Output - Resonator	Dimensions
Dreamline 3020 Fiber	IPG Power output from 700 W to 4.000 W	3.000x2.400x900 mm



Characteristics	Technical Data
Maximum permitted load	600 kg
Number of cutting heads	1 (5 axes)
Maximum simultaneous positioning speed	85 m/min
Maximum axial acceleration	4,9 m/s <sup>2</sup>
Machine Tolerance	± 0.05 mm/m
Repeatability precision	± 0.025 mm/m
Power Output	De 700 W a 4.000 W
Axes travel (X, Y, Z)	3.000 x 2.400 x 900 mm
Dedicated GAP axis (W)	Included
Measurement system	Absolute optical rulers (optional)

## Specifications

- Acceleration rate: 4,9 m/s<sup>2</sup>
- Maximum simultaneous positioning speed: 85m/min
- Precision: ± 0.05 mm
- Energy efficiency: greatly reduced power consumption
- Excellent cutting quality for both fine and medium thickness sheets
- IPG Resonator. Power output from 0,7 kW to 4 kW
- 3-axis head. Infinite rotation and inclination of ± 135°
- Fully enclosed and cabined machine to ensure maximum protection for the operator
- Effective system to change from high to low gas pressure
- Capacitive Sensor, high pressure cutting head
- TCI Cutting parameter tables
- Pre-cut protective film
- Power output control function for automatic nesting and machining (corners, lead-ins)
- Automatic time and cost calculation for pieces
- Network connection via external PC
- Smoke extraction system (optional, basic or zonal)
- 3 Point reference sensor (sheet rotation detection)
- Collection of workpieces and trimmings
- System of one proportional valve for different gas pressures and special system for high pressure cutting
- CNC Fanuc 30iLB
- Cooling system
- Automatic focus control
- MultiTouch Screen with remote control
- Ultrafast Heightregulation
- TCI Smart Touch 6.0
- TCI Automatic cutting system 3.2 (Automation of job lists)

