

Spaceline[®]
Fiber

LASER
division 

TCI cutting[®]
waterjet & laser systems



The intelligent 3D laser cutting solution

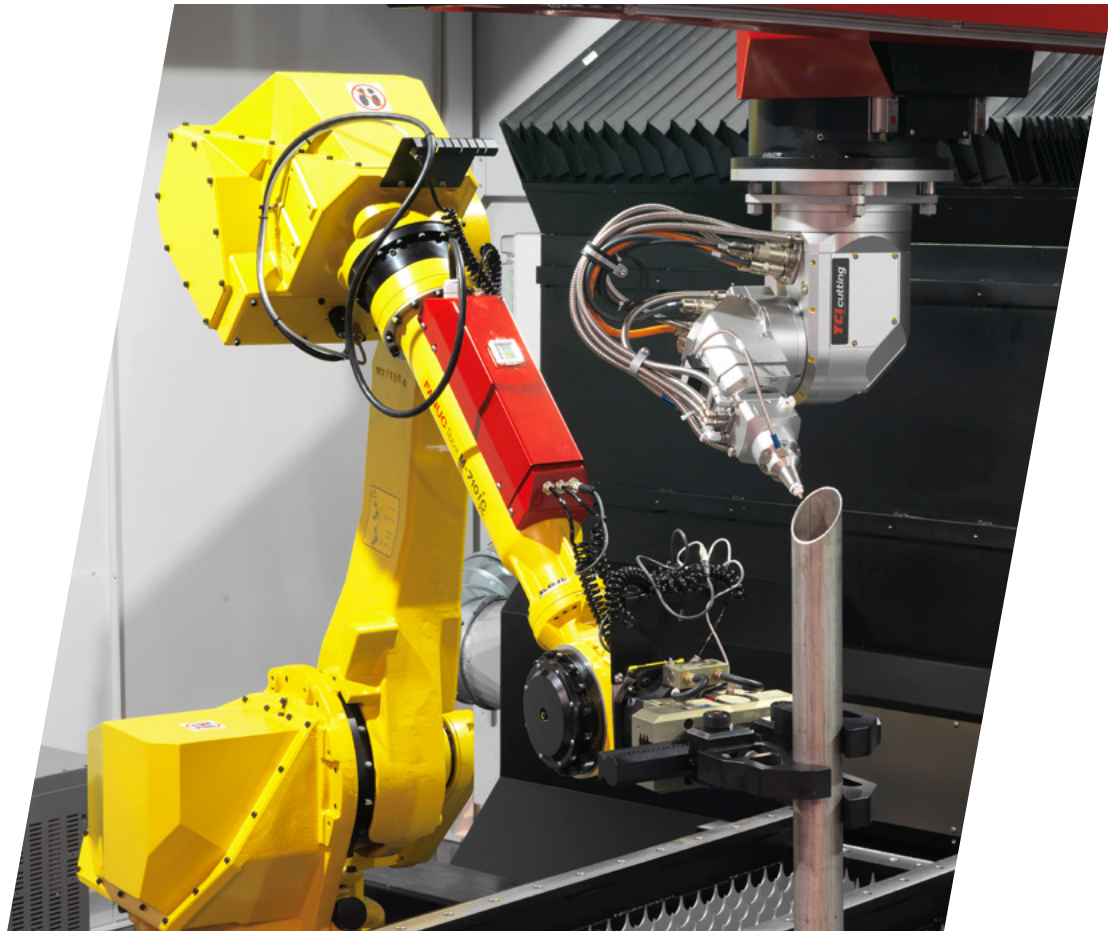
Spaceline[®] Fiber

TCI Cutting Spaceline 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 arm that houses the 3D cutting head, allows the creation of cutting programs with multiple angles for the same piece, a speed of more than 1G and with powers from 1 to 3 kW (up to 6 kW for specials). The 700 mm travel of the Z axis offers infinite possibilities for cutting both by robot and using working table.

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 Spaceline a machine capable of adapting to the needs of any sector.

Models in the Spaceline Fiber Series	Power Output - Resonator	Dimensions
Spaceline 1540 Fiber	IPG Power output from 1.000 W to 3.000 W	1.550x4.050x700 mm



Characteristics	Technical Data
Maximum permitted load	600 kg/m ²
Number of cutting heads	1 (5 axes)
Maximum simultaneous positioning speed	160 m/min
Maximum axial acceleration	9,8 m/s ² (1G)
Machine Tolerance	± 0.05 mm/m
Repeatability precision	± 0.03 mm/m
Power Output	De 1.000 W a 3.000 W
Axes travel (X, Y, Z)	1.550 x 4.050 x 700 mm
Dedicated GAP axis (W)	Included
Motorization of loading tables	Included
Motorization of parts with robot	Optional
Measurement system	Absolute optical rulers

Specifications

- Acceleration rate: 9,8 m/s² (1G)
- Maximum simultaneous positioning speed: 160m/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 1 kW to 3 kW
- 3-axis head. Infinite rotation and inclination of $\pm 135^\circ$
- 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
- Motorized tables (optional)
- Smoke extraction system (included for some models)
- 3 Point reference sensor (sheet rotation detection)
- Piercing Sensor (optional)
- Collection of workpieces and trimmings
- System of two proportional valves for different gas pressures and special system for high pressure cutting
- CNC Fanuc 30iLB
- Cooling system
- Automatic nozzle cleaning
- 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)

