

Smartline[®]
Fiber

LASER
division 

TCI cutting[®]
waterjet & laser systems



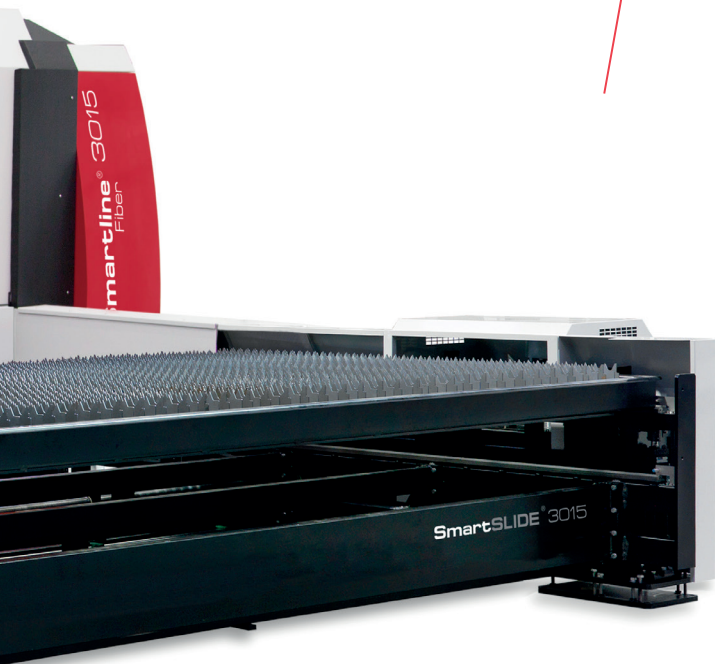
Flexible and energy efficient

Smartline[®] Fiber

This series offers an unmatched piece production output and **cutting quality** for **fine and medium sheets**, depending on the laser power used. The high energy efficiency of the fiber laser ensures a very low power consumption. They are available in power output ranging from 1.000 W to 8.000 W.

TCI Cutting has the laser cutting solution to meet your cutting needs and expectations, for every dimension, material type and thickness, with **maximum productivity and minimal maintenance**.

Models in the Smartline Fiber Series	Power Output - Resonator	Dimensions
Smartline 3015 Fiber	IPG. Power output from 1.000 W to 8.000 W	3.000x1.500x100 mm
Smartline 4020 Fiber		4.000x2.000x100 mm



Characteristics	Smartline 3015 Technical Data	Smartline 4020 Technical Data
Maximum permitted load	950 kg	1800 kg
Number of cutting heads	1	1
Max. simultaneous positioning speed	170 m/min	170 m/min
Maximum axial acceleration	19,6 m/s ² (2G)	19,6 m/s ² (2G)
Machine Tolerance	± 0.05 mm/m	± 0.05 mm/m
Repeatability precision	± 0.025 mm	± 0.025 mm
Power Output	From 1000 W to 8000 W	From 1000 W to 8000 W
Fully enclosed and cabined machine	Included	Included
Smoke extraction system	Included	Included
Cooling system	Included	Included
Automatic table exchanger	Included	Included
Automatic loader and unloader	Optional	Optional

Specifications

- Acceleration rate: 19,6 m/s² (2G)
- Maximum simultaneous positioning speed: 170 m/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 8 kW
- PRECITEC / HIGHYAG cutting head
- 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)
- Network connection via external PC
- Automatic table exchanger
- Smoke extraction system
- Sheet metal detection system, using artificial vision software
- 3 Point reference sensor (sheet rotation detection)
- Piercing Sensor (optional)
- Collection of workpieces and trimmings
- Dual proportional valve control system for different gas pressures and special system for high pressure cutting
- CNC Fanuc 31iLB
- Cooling system
- Automatic nozzle cleaning
- Automatic focus control
- MultiTouch Screen with remote control
- Ultrafast Heightregulation
- TCI Smart Touch 6.0
- TCI Fly Cutting 3.0
- TCI Fast Piercing 2.0
- TCI Automatic cutting system 3.2 (Automation of job lists)

