



**Smartline<sup>®</sup>**  
Fiber

**LASER**  
division 

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



Flexible and energy efficient

## Smartline<sup>®</sup> 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 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<br>from 1.000 W to 8.000 W | 3.000x1.500x100 mm |
| Smartline 4020 Fiber                 |  | 4.000x2.000x100 mm |



| Characteristics                        | Technical Data             |
|--|----------------------------|
| Maximum permitted load                 | 950 kg/m <sup>2</sup>      |
| Number of cutting heads                | 1                          |
| Maximum simultaneous positioning speed | 160 m/min                  |
| Maximum axial acceleration             | 19,6 m/s <sup>2</sup> (2G) |
| Machine Tolerance                      | ± 0.05 mm/m                |
| Repeatability precision                | ± 0.025 mm/m               |
| Power Output                           | From 1.000 W to 8.000 W    |
| Fully enclosed and cabined machine     | Included                   |
| Smoke extraction system                | Included                   |
| Cooling system                         | Included                   |
| Automatic table exchanger              | Included                   |
| Automatic loader and unloader          | Optional                   |

## Specifications

- Acceleration rate: 19,6 m/s<sup>2</sup> (2G)
- Maximum simultaneous positioning speed: 160 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 1kW to 8kW
- Precitec Light Cutter cutting head for power output up to 2kW
- Precitec / Highyag cutting head for power output greater than 2kW
- 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
- Automatic table exchanger (included for some models)
- Smoke extraction system (included for some models)
- 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 Height regulation
- 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)

