

Dynamicline[®] series

LASER
division 

TCIcutting[®]
waterjet & laser systems



Power, speed and energy saving.

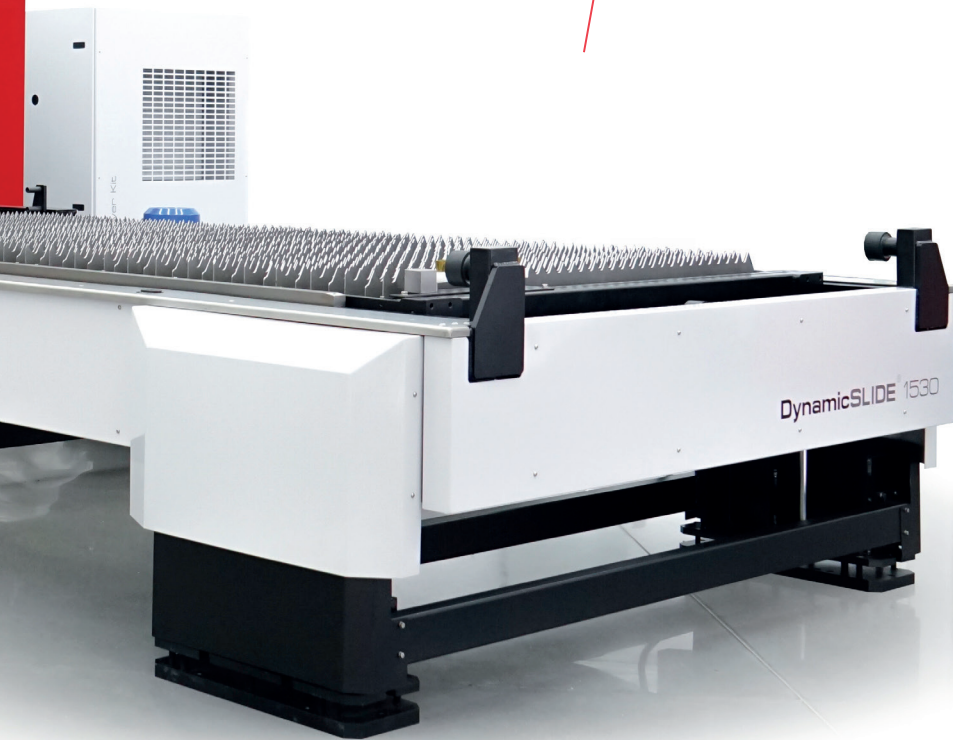
Dynamicline[®] Fiber

Dynamicline Fiber is productivity in pure state for big series, keeping energy and production efficiency in view. With versions up to 15 kW of cutting power, its design includes linear motors and the possibility of cutting thicknesses up to 30 mm with a maximum acceleration of 4G and an accuracy of 3 microns. The travel speed up to 280 m/min guarantees the highest productivity for the most large series demanding customers.

The team of engineers of TCI Cutting has achieved a cutting system, which combines the necessary features to produce the most complex cutting work and with the most innovative cutting options: automatic nozzle change, artificial vision camera. Never seen until this moment in a laser cutting system with fiber source.

The energy saving and the cutting speed, added to the laser power, were the three main premises when designing the Dynamicline Fiber system, thus achieving a compact system of high performance for high productions.

Models in the Dynamic Fiber Series	Power Output - Resonator	Dimensions
Dynamicline 1530 Fiber	IPG. Power output from 4.000 W to 15.000 W	1.500x3.000x100 mm
Dynamicline 2040 Fiber		2.000x4.000x100 mm



Characteristics	Dynamicline 1530 Technical Data	Dynamicline 2040 Technical Data
Maximum permitted load	950 kg	1800 kg
Number of cutting heads	1	1
Maximum simultaneous positioning speed	280 m/min	280 m/min
Maximum axial acceleration	29,4 m/s ² (3G)	29,4 m/s ² (3G)
Machine Tolerance	± 0.05 mm/m	± 0.05 mm/m
Repeatability precision	± 0.025 mm	± 0.025 mm
Power Output	From 4000 W to 15000 W	From 4000 W to 15000 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: up to 4G
- Maximum simultaneous positioning speed: 280 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 4 kW to 15 kW
- Zoom - variable spot (optional)
- 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
- TCI Automatic cutting system 3.2 (Automation of job lists)

