

SELMACHTM
MACHINERY

Making Metal Work



Smart Fibre PRC CNC Laser

The RVD SmartFibre PRC CNC fibre laser cutting machine is available in a compact footprint, with a bed size of 1.5m x 3m, with Max Photonics power sources ranging from 3kW or 6kW.

All RVD PR models are supplied with an automatic transfer table, allowing the operator to easily load and unload the material.

BOCI Cutting Heads paired with Cypcut software makes for fast, economical and easily programmable CNC Cutting.



**THE SMART
FIBRE PRC**



INTEGRATED CNC CONTROLLER

Machine Features

- High performance Max Photonics fibre laser technology
- BOCI BLT 3 / 4 Series Automatic focus laser cutting head
- High strength, rigid gantry design to ensure high accuracy and consequently allow high acceleration
- Ultra high precision class alpha rack and pinion drive motion system
- Vertical drag chain for even more efficient floorplan
- Drawers fitted underneath the cutting table for the removal of small parts and scrap
- High speed dual pallet mechanical transfer table allowing cutting during loading and unloading
- CE compliant complete machine enclosure and light barrier system
- FSCUT CNC Control
- Cypcut CAD/CAM Software

Optional Extras

- Extraction system

TECHNICAL SPECIFICATIONS

MODEL		PRC 3015	
		3	6
Laser Power	kW	Max Photonics	
Laser Source		1500 x 3000	
Processing Surface (L x W)	mm	FSCUT 2000	FSCUT 4000
CNC Control		CypCutE	
CAD/CAM Software		BOCI BLT 3 Series - BLT310	BOCI BLT 4 Series - BLT421S
Laser Head		±0.03	
Position Accuracy X, Y and Z Axis	mm	±0.02	
Repeat Position Accuracy X, Y and Z Axis	mm	80	
Maximum Position Speed of X and Y Axis	mm/min	AI, BMP, PLT, DXF, DTS etc	
File Formats Supported		800	
Max Load of Shuttle Table	kg	1.2	
Acceleration	G	1,530	
X Axis Travel	mm	3,050	
Y Axis Travel	mm	200	
Z Axis Travel	mm	8,771	
Length	mm	2,260	
Width	mm	2,460	
Height	mm	7,500	
Weight	kg		

BLT 3 SERIES (UP TO 3KW)

BLT 3 series is a highly cost-effective intelligent cutting head developed for small and medium-sized power. It not only has a small size and is lightweight, but also integrates multiple sets of intelligent sensors inside the cutting head for real-time closed-loop intelligent monitoring, rapid diagnosis, and timely warning.

Dual Optical Protection

3 sets of protective lenses, extending the lifespan of core lenses, and multiple protections to enhance the sealing level inside the core cavity.



Collision Protection

After an accidental collision, it can quickly recover, simplify the maintenance process, and reduce maintenance costs.



Standard Air Pressure Sensor

More precise gas control and more stable cross-sectional quality; Open air protection to prevent lens explosion; One click intelligent calibration of air pressure, making nozzle/process replacement more convenient and worry free.



Temperature Monitoring of Protective Mirrors

Real time monitoring of the temperature of the protective mirror during the cutting process. When the protective mirror is contaminated, the system promptly stops the light and alarms, effectively reducing cutting defects caused by pollution of the protective mirror.



Collimation focusing

Faster focusing speed, wider focusing range, more efficient perforation, and support for more cutting processes.



Built in capacitive amplifier

Built in capacitive amplifier for more precise and stable elevation and follow-up.



BLT 4 SERIES (4 - 6KW)

BLT 4 series, cost-effective smart cutter that focuses on 2D, 3D and bevel cutting machine, delivers a great performance with stable cutting, simple installation and setup, available for power levels below 30KW.

Stable and Efficient Cutting

- Brand new optical solutions come with closed-loop auto focusing.
- Slag-free Cutting, Nozzle Cooling, and Water Cooling Sensor supportable.
- Make cutting more stable and efficient.

Easy to Maintain, Low Cost to Repair

- Ready-to-use optics drawer, lens changed in 5 minutes.
- Protective screws keep cutting head from damage.
- No time wasting on Depot Repair.



Smart and Safe Processing

- Groups of internal sensors for real time closed-loop monitor.
- Rapid diagnosis brings you early warning.



