

# Fiber laser type BLS-C 2,5 kW

Best  
Quality



The BLS-C fiber laser from Baykal is an all in one box design, suitable for customers who have a lack of space. This machine offers lower capital investment and lower operating costs, and it is a good solution for customers cutting in thin material up to 10 mm.

This machine is easy to operate, reliable and precise, and has a unique cutting quality within the first minute of cutting process.

The “BLS” uses new generation high performance linear axis system with high performance rack and high performance class pinion.

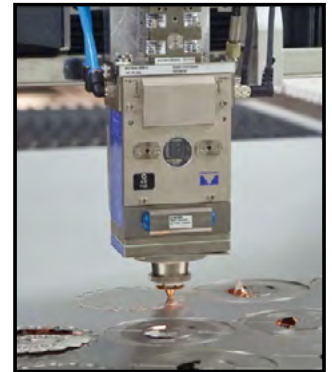
## Features for BLS-C:

- Precise and easy handling of both large and small items
- High speed and high precision through servo system
- Fibre optics laser system
- Auto focus
- Simple and user-friendly operator interface and extensive cutting database
- Motorised transfer table
- Safety warnings and graphical diagnostic
- Low costs and low energy consumption
- Easy processing of copper, titanium and brass
- Low cooling capacity due to fiber optic
- Perfect beam quality and long lifetime for cutting lense
- “Fly-cut” technology - faster processing
- Lantek nesting with maximum performance
- CAD 2D design
- CNC control Beckhoff CNC, 19” TFT colour screen, Windows 7

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- The fiber laser uses Precitec laser cutting head, which is one of the most used manufacturers in the industry.
- There is a constant cutting height to the plate thanks to a height sensor.
- The laser head is equipped with “quick-change” cassette system.
- Furthermore there is an anti-collision device on the laser head so that the laser will stop immediately and interrupt the beam if a collision occurs.
- Via the CNC-control you can program an automatic nozzle cleaning as well as calibration of the nozzle.
- On the machines there is a conveyor for small items that will fall through the table.



		BLS-C 1530
Work piece dimensions	mm	1500 x 3000
X-axis (rack & pinion)	mm	3000
Y-axis (rack & pinion)	mm	1500
Z-axis (ball screw)	mm	100
Sheet dimension	mm	1525 x 3050
Rapid feed (X and Y axis)	m/min.	110
Acceleration		1,2 G
Positioning accuracy	mm	± 0,08
Repeatability	mm	± 0,03
Feed rate	m/min.	up to 45 m/min. depending on material and thickness
Programmable gasses	bar	Compressed air 0-6 Oxygen 0-6 High pressure (nitrogen) 0-25
Lense types		150 mm focus length
Beam		fibre optics
Transfer tables		motorised hydraulic automatic
Max. weight on the table	kg	1000 per table
Exhaust capacity	m <sup>3</sup> /t	4000
Laser strength	W	2500
Cutting thickness	mm	0-10 (steel) 0-4 (stainless) 0-4 (aluminium)