

Product Brochure For L785

## Baykal Fiber Laser Cutting - BLE 1530 PRO

3050 x 1525mm Table, Includes Automatic Sheet Exchange Tables  
 IPG YLS 2000W Fiber Laser & Beckhoff CNC Control - Cuts up to  
 16mm Mild Steel Plate



Order Code:	L785
Model:	BLE PRO1530
Laser Power (Type):	2000W (2kW)
Cutting Table Capacity (mm):	3050 x 1525
Mild Steel Cutting Capacity (mm):	16
Stainless Steel Cutting Capacity (mm):	8
Aluminium Cutting Capacity (mm):	6
Maximum Cutting Capacity - Brass (mm):	6
Laser (Type):	IPG Photonics
CNC Control Unit (Type):	Beckhoff CNC
Cutting Head (Type):	Precitec ( Automatic Focus )
CNC Motion System (Type):	Beckhoff CNC Servo System
Nesting Software (Type):	LANTEK Expert Cut (Optional)
X Axis (mm):	3000
Y Axis (mm):	1500
Z Axis (mm):	150
Rapid Traverse ( X and Y axis ) (m/min.):	110
Vector Speed (m/min.):	130
Acceleration (G / m/s <sup>2</sup> ):	1.2 / 12
Absolute Positioning Accuracy (mm):	±0.08
Feed Rate - Programmable Up To (m/min.):	50
Repeatability (mm):	±0.03
Focal Length (mm):	150
Transfer Table - Motorised (mm):	Automatic Exchange
Max. Load Capacity Per Table (kg):	1000
Automatic Nozzle Cleaning & Calibration:	Standard
Laser Wave Length (nm):	1064
Positioning (Type):	Laser Indicator
Drawing File (Type):	DXF
Nett Weight (kg):	10000



### Description

The BLE-1530 machine is a compact yet fast and powerful machine with cutting capacity of 1500 x 3000mm. High speed servo motors coupled to helical rack & pinion drives give the machine it's high speed acceleration of 1.2G with a top speed of 110m/min rapid traverse whilst maintaining accuracies measured in microns.

The machine is constructed with quality components sourced from around the world such as IPG laser, Precitec autofocus cutting heads and Beckhoff CNC systems. The motorised sheet exchange table is standard and the BLE-1530 can be equipped with a selection of fiber laser systems to suit your cutting application and budget.

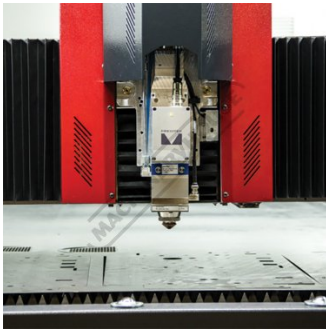
### Features

- IPG YLS 2000 laser source - IPG Photonics is the leading developer and manufacturer of high-performance fiber lasers, IPG's unique technology platform allows their products to have higher output powers and superior beam quality at a lower input power cost than can be achieved by any other competing technology.
- PRECITEC cutting head - with Auto focus adjustment, which provides the best cutting performance offering high speed processing and excellent cut edge quality. Distance to the work piece remains constant via the use of a capacitive sensing system. Fast, exact, drift-free distance measurement is achieved at any operating temperature, even at high acceleration rates.
- Beckhoff CNC System – The Beckhoff CNC system incorporates a multi touch 19" colour operator panel which allows for ease of use. High-speed control technology of the AX5000 drives support fast and highly dynamic positioning tasks. The drives utilize the latest high speed EtherCAT as a high-performance communication system providing performance beyond expectations
- Technology cycles – Technology cycles make a significant difference in laser processing, with these cycles you will achieve higher speed and cutting quality
- Automatic Nozzle Cleaning and calibration
- Sheet Edge Detection
- Auto parameter selection based on material
- Piercing cycles
- Auto capacitance height following
- Automatic Gas selection

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- Auto Retract function in case of collision
- Optional Accessories**
- Lantek Expert CNC CAD/CAM Nesting Software
  - METALMASTER 2500m3 Extraction Filter Unit
  - Monitoring IP Camera System (2 Camera)

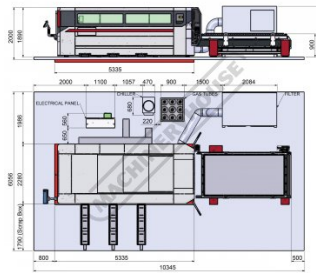
### Specific Features



Laser Head



Rear View



BLE1530 PRO LAYOUT