BLE-Pro

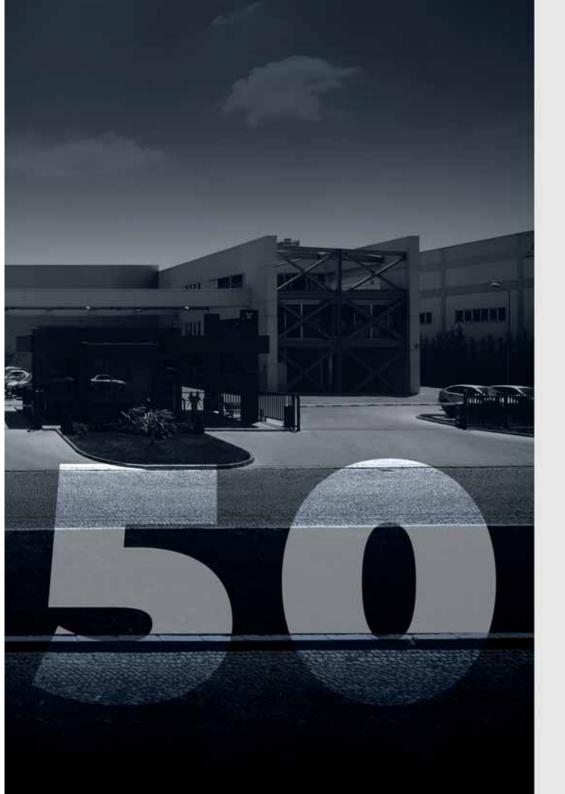


Think Big, We Do.









From Past to Future

With a foundation history going back to early 1950s, Baykal today is placed as a leading manufacturer and global supplier of sheet metal working machinery specialising in the production of press brakes, shears, notchers, punching machines, laser cutting systems, plasma cutting machines and Vertical Machining Center.

For its manufacturing operations Baykal utilises three factories which together combine a production area of 60,000 square meters, making it one of Europe's largest facility for sheet metal working and fabricating machinery. The total workforce at Baykal is currently numbered at 650 employees and is composed of highly trained and qualified machine operators and assembly technicians supported by a staff of 50 engineers. All the machines offered by Baykal are designed, manufactured, assembled and finished at Baykal's purpose-built plants in a CAD environment with extensive use of CNC machining and modern workshop equipment.

Baykal Company is accredited for the ISO 9001 Certification issued by the German TÜV institution. Also, since 1995, Baykal has been building machines in conformity with the European CE regulations for safety, being the first Turkish machine-tool manufacturer certified eligible to bear the CE Mark on its products. In addition, all Baykal products are manufactured with the TSE and TSEK quality certificates issued by the Turkish Standards Institution.

Since the last 40 years Baykal has progressed to become a major exporter of sheet metal working machines to the world markets with customers located in all the machine-tool consuming countries of the global geography from Americas to Australias. Baykal is currently represented in over 100 countries worldwide through appointed dealers. In the base market of Turkey, Baykal sheet metal working machines have traditionally commanded a leading market share thanks to the company's pioneering role in the development of Turkey's machine industry and its never-lessening emphasis on quality and service. Here, with a long engineering experience behind, Baykal wishes to present itself as a quality-conscious, professional machine-building company serving the industry.

BLE - Pro Cost Efficient and Economical



PRODUCTIVE

High dynamism increases productivity on thin sheets (+20%) compared to conventional drive system.

02

ACCURATE

Precise and repeatable in cutting and laser head positioning thanks to the effective CNC management. Excellent cutting quality and dynamics on all materials.















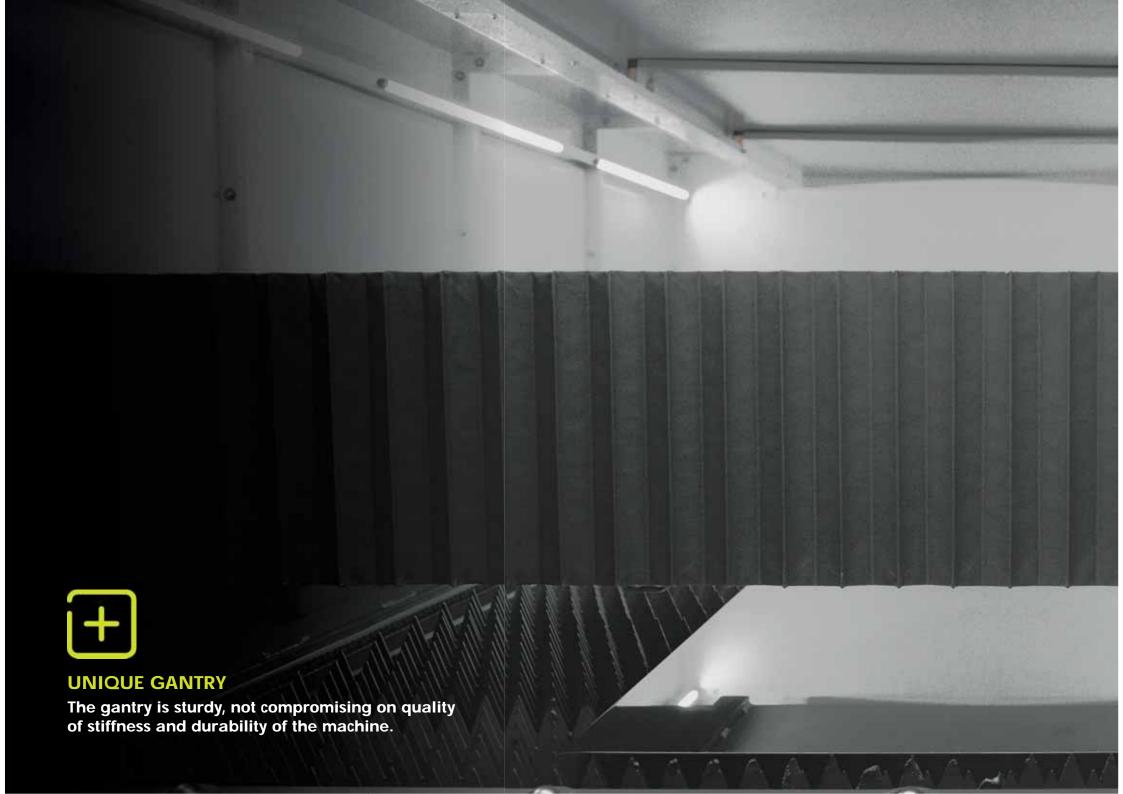


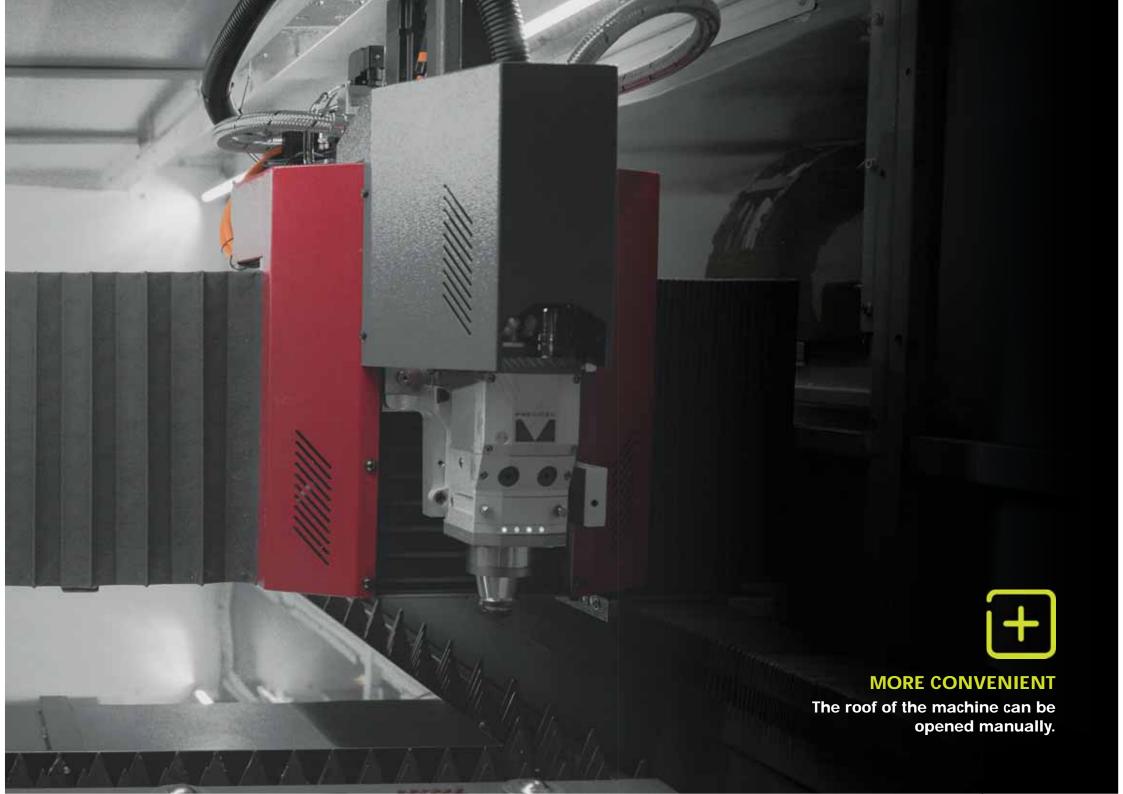




























LightCutter 2.0





FLEXIBLE

The LightCutter 2.0 is the ideal solution for all laser cutting applications in the medium power range up to 6 kW. Thanks to its wide range of variants - you will always find the most efficient and economical configuration. It is characterized by high cutting qualities for all metals up to 25 mm sheet thickness - especially for laser cutting of mild steel, stainless steel, and aluminum.



ProCutter 2.0



Focal Leght Adjustment: Manual or motorized via machine control

Focusing Lens:

High quality optics | XY adjustment | no repositioning | additional protective glass below focusing lens



Protective Glass Cartridge:
Protecting the optics against
dirt and fume | monitoring of
attendance and contamination |
tool free, easy change

LED Bar:

For immediate display of the current system state (pressure, temprature, drive, contamination)



Distance Measurement: Fast, exact, drift free distance measurement at any operating temperatures, even at high accelarations External Interface:

Output of all sensor data as an analog value, readout the values via Bluetooth set of thresholds

Protective Glass of Collimation Unit



Monitoring of piercing process and detection of cut interruption

Mounting of the head: Easily accessibility from the front



















BLEPRO **MORE SAFE New BLE-Pro turns maximum protection** into maximum productivity.

	BLE1530-PRO	BLE2040-PRO	BLE2060-PRO
VORKING AREA	1524x3048 mm	2032x4064 mm	2032x6096 mm
ASER POWER	1000-6000 W	1000-6000 W	1000-6000 W
CUTTING HEAD	Precitec LightCutter (Automatic Focus) //	Precitec LightCutter (Automatic Focus) //	Precitec LightCutter (Automatic Focus) //
	Precitec Procutter (Optional)	Precitec Procutter (Optional)	Precitec Procutter (Optional)
OCUSING LENSES	150 mm	150 mm	150 mm
CNC CONTROL UNIT	Beckhoff CNC (18.5 " TFT-Windows 10)	Beckhoff CNC (18.5 " TFT-Windows 10)	Beckhoff CNC (18.5 " TFT-Windows 10)
ERVO MOTORS/DRIVERS	Beckhoff	Beckhoff	Beckhoff
RAPID TRAVERSE	95 m/min	115 m/min	115 m/min
/ECTOR SPEED	135 m/min	145 m/min	145 m/min
ACCELERATION	1.5 G (15 m/s²)	1.8 G (18 m/s²)	1.8 G (18 m/s²)
ABSOLUTE POSITIONING ACCURACY	±0.03 mm	±0.03 mm	±0.03 mm
REPEATABILITY	±0.05 mm	±0.05 mm	±0.05 mm
EED RATE	Programmable up to 50 m/min	Programmable up to 50 m/min	Programmable up to 50 m/min
RANSFER TABLE MOTORIZED	Motorized - Automatic Exchange	Motorized - Automatic Exchange	Motorized - Automatic Exchange
MAX. LOAD CAPACITY	1250 kg for Each Table	2500 kg for Each Table	3500 kg for Each Table
NESTING SOFTWARE	LANTEK Expert Cut II or Metalix AutoNest PRO	LANTEK Expert Cut II or Metalix AutoNest PRO	LANTEK Expert Cut II or Metalix AutoNest PRO
NOZZLE CLEANING AND CALIBRATION	Automatic	Automatic	Automatic
UME EXTRACTOR	Optional	Optional	Optional

	Maximum Cutting Capacities					
	1 kw	2 kw	3 kw	4 kw	6kW	
Mild Steel	10	15	18	20	25	
Stainless Steel	4	8	10	12	15	
Aluminum	3	6	8	10	12	
Copper	2	4	5	6	8	
Brass	2	4	5	6	8	

