### Lightblade 1290



# Laser cutting & engraving made simple & affordable

We have configured the lightblade range of machines to make laser cutting and engraving a truly great experience. From setup, through usage to after sales support you will find that we do things a little bit differently at thinklaser.

This flexible low cost machine provides both cutting and engraving operations within a laser Class I process environment. The design has created a "lightblade" which combines high speed processing with high beam placement accuracy resulting in high quality results generated economically.

As with all our machines in our range this version is available with a range of power outputs to suit your specific application, see listing next page. The following information provides all the technical details you should need, however if we have missed anything then please talk to our very responsive staff who will be happy to help.

The LB range is capable of cutting and engraving a wide range of materials due to the CO2 wavelength of the laser. The list includes acrylic, wood, paper,











## Lightblade 1290

### Technical Information

If any of this information is unclear please contact technical support at Thinklaser who will be happy to answer any questions you may have.



#### Machine configuration and key feature information.

<b>Model Number</b>	TKL LB1290-60	TKL LB1290-80	TKL LB1290-100	TKL LB1290-150
Laser power	60 watts	80 watts	100 watts	150 watts
Laser type		C	:02	
Wavelength	10.6 um			
Laser format	Sealed laser glass tube			
Cooling type	Water (purified)			
<b>Chassis Details</b>				
Machine size	1660 x 1310 x 1110 mm	1660 x 1310 x 1110 mm	1660 x 1310 x 1110 mm	1810 x 1310 x 1110 mm
Weight (nett)	360 kg	360 kg	360 kg	370 kg
Bed size (process area)		1200 x	900 mm	

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Motion	Control
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Z motion

X-Y stage drives	DC Servo drive motors	
X-Y stage movement	1200 x 900 mm	
Z stage drive	Standard stepper motor drive	
Z stage movement	200 mm	
Targeting laser	Class II Red Dot Visible laser (650 nm 0.4 - 0.5 mw output)	
Autofocus	Included	

200 mm

#### **Process Details**

Positional accuracy	< 0.01mm
Highest scanning resolution	2500 dpi
Recommended smallest character size material dependant)	1mm height (this is

Scanning speed (engraving).	Up to 1.2 metre/sec. (ultimate speed is material dependant)
Scanning speed (Cutting).	Up to .75 metres/sec. (ultimate speed is material dependant)

#### **Environmental Conditions**

Operating power	220- 240v 50 Hz
Operating temperature	Ambient temperature: 10 - 30 degrees Celsius
General environment	Dust free, clean area with reasonable ventilation
Humidity	(relative) less than 70%
Water cooling supply	Closed loop chiller supplied
Air assist	Air Pump supplied

#### **Operating Details**

Operating software	Graphical interface package supplied with machine	
Communications interface	USB	
Compatible software	CorelDraw, Photoshop, AutoCAD	
Supported file formats	PLT, DXF, BMP, DST, Ai	





