Lightblade 6090



Laser cutting & engraving made simple & affordable

01737 826902

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

thinklaser

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, card, foam, synthetic materials, glass, leather etc. Please consult thinklaser if you have materials not listed here or send examples that we would be happy to evaluate, free of charge.



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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.

Model Number	TKL LB6090-60	TKL LB6090-80	TKL LB6090-100	
Laser power	60 watts	80 watts	100 watts	
Laser type	CO2			
Wavelength	10.6 um			
Laser format	Sealed laser glass tube			
Cooling type	Water (purified)			
Chassis Details				
Machine size	1360 x 950 x 1110 mm	1360 x 950 x 1110 mm	1560 x 950 x 1110 mm	
Weight (nett)		230-240 kg		
Bed size (process area)	900 x 600 mm			
Z motion		250 mm		
Motion Control				
X-Y stage drives	DC Servo drive motors			
X-Y stage movement	900 x 600 mm			
Z stage drive	Standard stepper motor drive			
Z stage movement	250 mm			
Targeting laser	Class II Red Dot Visible laser (650 nm 0.4 - 0.5 mw output)			
Autofocus		Included		
Process Details				
Positional accuracy		< 0.01mm		
Highest scanning resolution		2500 dpi		
Recommended smallest character	size 1mm height (this is material dependant)			
Scanning speed (engraving).	Up to 1.2 metre/sec. (ultimate speed is material dependant)			
Scanning speed (Cutting).	Up to .75 met	res/sec. (ultimate speed is r	naterial 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 in	Graphical interface package supplied with machine		
Communications interface		USB		
Compatible software	Со	CorelDraw, Photoshop, AutoCAD		
Supported file formats	PLT, DXF, BMP, DST, Ai			





