

# Lightblade 4060



## 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, 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.

We have structured our systems to have the following key features included as standard to aid in ease of set-up and productivity;

- Water chiller to keep the laser at optimum working temperature and maximise tube life
- Auto focus for faster job set-up
- Servo X-Y drive motors for improved process accuracy and repeatability
- Lens cleaning kit to keep optics clean
- Full documentation, installation & training, backed up with telephone support



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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.

### Also included

- 12 months warranty
- Free delivery to UK mainland Site
- Replacement glass laser tube
- 3 focussing lens assemblies

### Machine configuration and key feature information.

MODEL NUMBER	TKL LB4060-40	TKL LB4060-60
LASER POWER	40 Watts	60 Watts
LASER TYPE	CO <sub>2</sub>	
WAVELENGTH	10.6 µm	
LASER FORMAT	Sealed Glass Tube	
COOLING TYPE	Water (Purified)	
<b>CHASSIS DETAILS</b>		
MACHINE SIZE	960 x 830 x 1050 mm	1410* x 830 x 1050 mm
WEIGHT (NETT)	180 kg	
BED SIZE (PROCESS AREA)	400 x 600 mm	
Z-MOTION	200 mm	
<b>MOTION CONTROL</b>		
X-Y STAGE DRIVES	DC Hybrid-Servo Drive Motors	
X-Y STAGE MOVEMENT	400 x 600 mm	
Z STAGE DRIVE	Standard Stepper Motor Drive	
Z STAGE	250 mm	
TARGETING LASER	Class II Red Dot Visible Laser (650nm 0.4 ~ 0.5mw output)	
AUTOFOCUS	Included as standard	
<b>PROCESS DETAILS</b>		
POSITIONAL ACCURACY	<0.01 mm	
HIGHEST SCANNING RESOLUTION	2500 dpi	
RECOMMENDED SMALLEST CHAR SIZE	1 mm (material dependant)	
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)	
<b>ENVIRONMENTAL CONDITIONS</b>		
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 as standard	
AIR ASSIST	Air Pump supplied as standard	
<b>OPERATING DETAILS</b>		
OPERATING SOFTWARE	RD Works: Graphical interface package supplied with machine (PC only)	
COMMUNICATIONS INTERFACE	USB	
COMPATIBLE SOFTWARE	CorelDraw, Photoshop, AutoCAD	
SUPPORTED FILE FORMATS	PLT, DXF, BMP, DST, Ai, JPEG, PCX, TIFF, WMF, Vector PDF + more	

\*Tube extension

