

thinklaser

# THE LIGHTBLADE 3040

*small format,  
big features.*



With a 300x400mm cutting area and up to 60W of laser power available, the Lightblade 3040 has the capability to process a wide range of non-metallic materials up to 12mm\* thick, with all the same accuracy and performance of the larger machines in the Lightblade range.

The Lightblade 3040 is equipped with hybrid servo drives on the X&Y axis to ensure pinpoint repeatability down to 0.01mm and scanning resolution of up to 2500dpi for breath-taking results time after time. A 200mm Z-axis travel ensures that deep parts or box tops can also be accommodated.

Lightburn software is offered as a standard feature. Import artwork in a wide range of formats with easy to use editing and laser control and innovative features like Print and Cut, which give users the capability to accurately laser cut pre-printed parts.

The Lightblade can further be enhanced with a range of options which include software controlled air assist cutting and a camera system that offers users the ability to trace existing artwork, accurately position artwork on offcut materials and monitor the laser cutting.

**All Thinklaser Lightblade laser machines are subject to the same stringent quality controls that must be passed before they leave our factory in Surrey and are backed up by our team of friendly laser experts with unlimited phone support for the life of the machine.**

***We offer a number of packages to suit our user's requirements. As standard, across the Lightblade range, all machines are supplied with:***

- ✓ **Closed loop water chiller**
- ✓ **Autofocus**
- ✓ **Air assist cutting**
- ✓ **Red dot laser pointer**
- ✓ **Honeycomb bed**
- ✓ **Lightburn Software**
- ✓ **6445 5" Ruida controller**

*For more information regarding the range of Lightblade laser cutting & engraving systems*  
**Get in touch at [www.thinklaser.com](http://www.thinklaser.com) or call us on ☎ 01737 826902**

# HARDWARE SPECIFICATION

**LASER SAFETY CLASSIFICATION:**  
CLASS 1

**LASER POWER CO2** (Sealed Glass Tube): 40 or 60W

**X-Y AXIS DRIVES:** Hybrid Stepper Servo Drive Motors

**Z AXIS DRIVE:** Stepper Drive Motor

**CUTTING AREA DIMENSIONS:**  
300 X 400mm

**LASER SAFETY GLASS:**  
10.6  $\mu$ m

**MACHINE WEIGHT:** 70kg

**TARGETING LASER:**  
Class I Red Dot Visible Laser

**WAVELENGTH:**  
CO2: 10.6  $\mu$ m

## PROCESSING SPECIFICATION:

**SCANNING RESOLUTION:** 2500 dpi

**POSITIONAL ACCURACY:** <0.01 mm

**RECOMMENDED SMALLEST CHAR SIZE:** 1 mm  
(material dependant)

**SCANNING SPEED (CUTTING):** Up to 600mm/sec.  
(ultimate speed is material dependant)

**SCANNING SPEED (ENGRAVING):** Up to 600mm/sec.  
(ultimate speed is material dependant)



## INSTALLATION SPECIFICATION

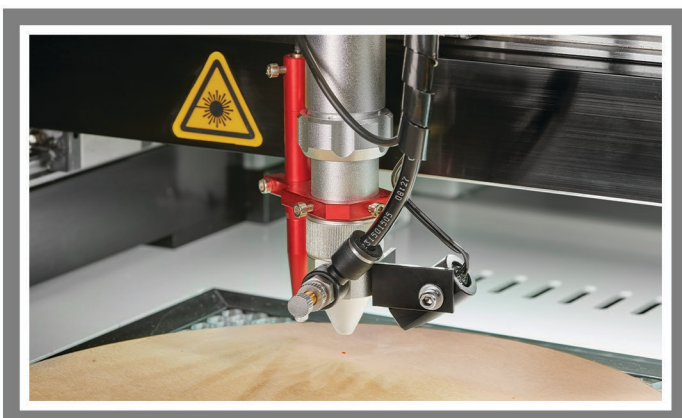
**POWER REQUIRED:** 3 Pin 220 ~ 240v / 50 Hz /  
Typically less than 8 amps

**ENVIRONMENT:** Dust free, clean area with  
reasonable ventilation.

**Ambient temperature:** 10 - 30 degrees Celsius  
**Humidity:** (relative) less than 70%

**MACHINE CONNECTIVITY:** USB/Ethernet

**SUPPORTED FILE FORMATS:** PLT, DXF, BMP, DST,  
Ai, JPEG, PCX, TIFF, WMF, Vector PDF + more



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