



# THE LIGHTBLADE 1290

*the benchmark for highly  
flexible, middle format  
cutting and engraving.*

Get in touch at  
**[www.thinklaser.com](http://www.thinklaser.com)**

Utilising a 1200x900mm cutting area with standard pass through port and available with laser output up to 150W, the Lightblade 1290 offers users the ability to process a wide range of non-metallic materials up to 20mm\* thick.

The Lightblade range 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 250mm 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

# HARDWARE SPECIFICATION

**LASER SAFETY CLASSIFICATION:**  
CLASS 1 (CLASS 4 W/pass through port)

**LASER POWER CO2 (Sealed Glass Tube):** 80, 100, 130 or 150W

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

**Z AXIS DRIVE:** Stepper Drive Motor

**CUTTING AREA DIMENSIONS:** 1200 X 900mm (Pass through port fitted as standard)

**LASER SAFETY GLASS:**  
10.6 µm

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

**WAVELENGTH:**  
CO2: 10.6 µm



## 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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