

## Vision 1490 Dual Source

Laser cutting & engraving  
made simple & affordable.

## Technical Information



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.

We have configured the Vision range of machines to make laser cutting and engraving a truly great experience from setup, through usage, to after sales support.

This flexible low cost machine provides both cutting and engraving operations within a laser Class 1 process environment. The design has created a Vision Laser which combines high speed processing with high beam placement accuracy resulting in high quality results generated economically. As with all our machines, this version is available with a range of power outputs to suit your specific application.

The Vision Dual Source range is available with both the standard CO2 Glass laser tubes as well as a second fibre laser source, enhancing the already extensive cutting and engraving capabilities. The list includes acrylic, wood, paper, card, foam, synthetic materials, glass, leather etc, plus the added benefit of being able to engrave metals with the Fibre laser. Please consult us 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
- Hybrid Stepper Servo X-Y drive motors for improved process accuracy & repeatability
- Lens cleaning kit to keep optics clean
- Full documentation, backed up with our top technical support

If any of this information is unclear please contact technical support who will be happy to answer any questions you may have.  
\*T&C's Apply

# Technical Specification

MODEL NUMBER	VL1490DS-80/FF
LASER POWER CO2	80 Watts
LASER POWER FIBRE	50 Watts
WAVELENGTH	CO2 @ 10.6µm / Fibre @ 1064nm
LASER FORMAT	CO2 - Sealed Glass Tube / Fibre - Air Cooled
COOLING TYPE	Water (Purified)
MACHINE SIZE	2060 x 1500 x 1150 mm
WEIGHT (NETT)	430 KG
BED SIZE (PROCESS AREA)	1400mm x 900mm (pass through port available, Class 4 laser operation)
Z MOTION	250mm
X-Y STAGE DRIVES	Hybrid Stepper Servo Drive Motors
X-Y STAGE MOVEMENT	1400mm x 900mm
Z STAGE DRIVE	Stepper Drive Motor
Z STAGE	250mm
TARGETING LASER	Class II Red Dot Visible Laser (650nm <1mw output)
POSITIONAL ACCURACY	<0.01 mm
HIGHEST SCANNING RESOLUTION	2500 dpi
RECOMMENDED SMALLEST CHARACTER SIZE	1 mm (material dependant)
SCANNING SPEED (ENGRAVING)	Up to 600mm /sec. (ultimate speed is material dependant)
SCANNING SPEED (CUTTING)	Up to 600mm /sec. (ultimate speed is material dependant)
OPERATING POWER	220 ~ 240v / 50 Hz / Typically less than 8 amps
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
OPERATING SOFTWARE	RD Works / Lightburn
COMMUNICATIONS INTERFACE	USB / Ethernet
COMPATIBLE SOFTWARE	CorelDraw, Photoshop, AutoCAD, Lightburn (PC & MAC)
SUPPORTED FILE FORMATS	PLT, DXF, BMP, DST, Ai, JPEG, PCX, TIFF, WMF, Vector PDF + more

**For Sales or Enquiries call 0333 339 2477**

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Please do not hesitate to contact us for a quote. We can give immediate quotes for any machine. Our product range offers great value for money and prices quoted are inclusive of installation, commissioning and training. Warranties up to 3 years available - please ask for details.

VAT No:  
326 5847 79

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12089731

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30-90-09

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53361960