

## LS1390 Fibre Metal Cutter

The LS1390 fibre metal cutting laser machine is a medium sized, compact design housed in a convenient protective cabinet for maximum operator safety. Available with laser powers from 1kW to 4kW and with multiple brands of laser source available. It is supplied complete with a compatible water chiller unit, fan system and exhaust ducting as standard.

With automatic height control, automatic focus, servo motor control and an onboard fully featured computer system running the latest Cypcut laser control software, it is cleverly engineered for maximum flexibility and convenience.

### MACHINE FEATURES:

Fully enclosed cabinet system for optimal safety and fume extraction

1kW as standard, with upgrades of 1.5kW, 2kW, 3kW and 4kW available

Up to 100,000 working hours life for the fibre laser source

Automatic focus adjustment much faster and accurate than manual adjustment

Pull-out heavy duty sawtooth bed for ease of loading and unloading a wide range of materials and weights

High quality optics provide high accuracy, reliability and long life

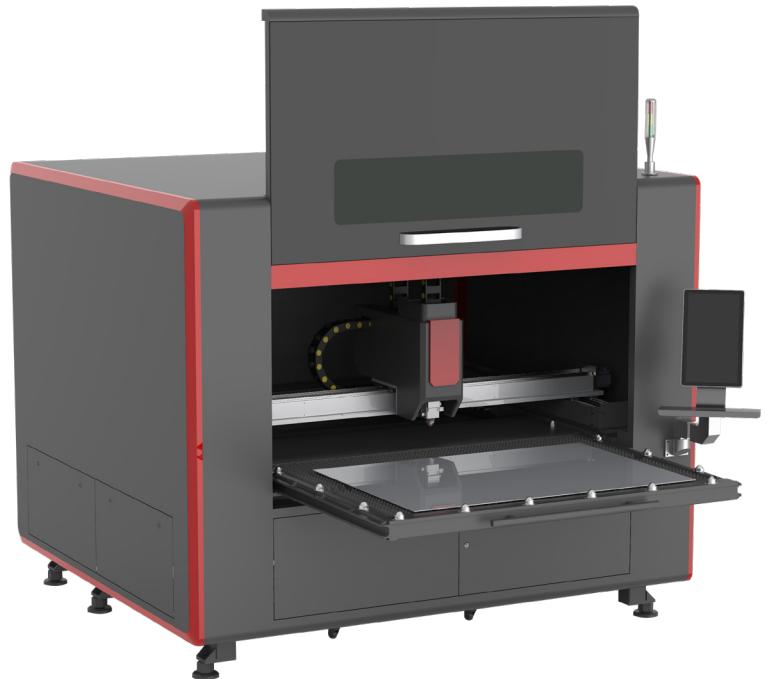
Swiss Raytools laser head for maximum precision and reliability

Dual gas delivery system enables assist nitrogen/oxygen changeover through software

Popular and easy to use CypCut control software

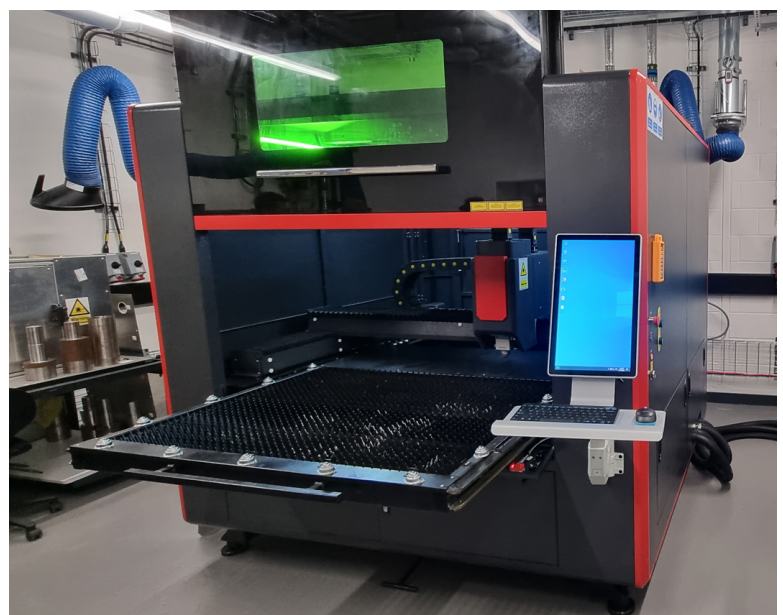
Wireless operator keypad/control handle, keyboard and mouse

Water flow switch in chiller to provide protection against failure of cooling system



### CUT:

|                  |                    |
|------------------|--------------------|
| Stainless steel  | Zintec             |
| Carbon steel     | Brass              |
| Silicon steel    | Copper             |
| Aluminium        | Alloys             |
| Titanium         | Electrolytic Plate |
| Galvanised steel |                    |



**LS1390**

|                                     |  |       |      |      |      |
|-------------------------------------|--|-------|------|------|------|
| <b>Laser power</b>                  | 1kW  | 1.5kW | 2kW  | 3kW  | 4kW  |
| <b>Max. Cutting speed</b>           | 40m/minute   |       |      |      |      |
| <b>Max. Acceleration</b>            | 0.5G   |       |      |      |      |
| <b>Max. cutting thickness (mm)*</b> |  |       |      |      |      |
| Carbon Steel                        | 12mm   | 14mm  | 18mm | 22mm | 25mm |
| Stainless Steel                     | 5mm  | 6mm   | 8mm  | 10mm | 12mm |
| Aluminium                           | 3mm  | 5mm   | 6mm  | 8mm  | 8mm  |
| Non-Ferrous                         | 3mm  | 4mm   | 6mm  | 8mm  | 8mm  |
| <b>Cutting area</b>                 | 1300mm x 900mm   |       |      |      |      |
| <b>Laser source</b>                 | IPG / Raycus / MAX / NLight  |       |      |      |      |
| <b>Location precision</b>           | ±0.01mm  |       |      |      |      |
| <b>Drive system</b>                 | Yaskawa (Japan) servo motors   |       |      |      |      |
| <b>Optics</b>                       | Raytools auto-focus cutting head (exact model depending on laser power) Free   |       |      |      |      |
| <b>Mounting</b>                     | standing   |       |      |      |      |
| <b>Cooling method</b>               | Separate closed-circuit water chiller  |       |      |      |      |
| <b>Access</b>                       | Pneumatically driven up/down door  |       |      |      |      |
| <b>Fume extraction</b>              | Separate air extraction system supplied<br>(Optional self-contained fume filter system available)  |       |      |      |      |
| <b>Software</b>                     | CypCut   |       |      |      |      |
| <b>Preferred file type</b>          | .dxf, .pl  |       |      |      |      |
| <b>Operating system support</b>     | Professional on-board computer   |       |      |      |      |
| <b>Power supply</b>                 | 380-415V 3 Phase   |       |      |      |      |
| <b>Machine dimensions (mm)</b>      | 2290 wide x 2110 deep x 2169mm high (excluding monitor, keyboard and status beacon)<br>Total height of machine with door fully opened: 2868.50mm |       |      |      |      |
| <b>Machine weight</b>               | 1700kg   |       |      |      |      |
| <b>Maximum bed load:</b>            | 250kg  |       |      |      |      |
| <b>Cabinet safety</b>               | Full protective enclosure with CE marked safety switches   |       |      |      |      |
| <b>Warranty</b>                     | 12 months on site excluding consumables  |       |      |      |      |

**OPTIONAL EXTRAS:**

Laser power upgrades available for faster speeds and thicker materials

AD2000 IQ BOFA Fume Filtration System

Separate electrical cabinet to reduce overall size of main machine (useful for narrow access installations)

**LASER SOURCE SELECTION:**

HPC Laser have multiple laser source and power options available depending upon the nature of your target materials. Permanent damage to the laser source can occur if incompatible materials are cut with any laser source. Please contact HPC Laser for further advice and to discuss your exact requirements

\*Any maximum cutting thicknesses are indicative only and not guaranteed