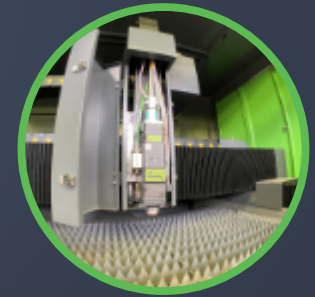
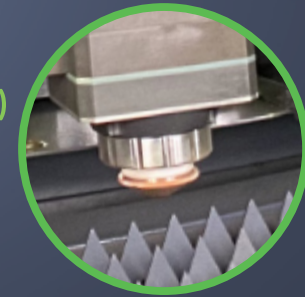
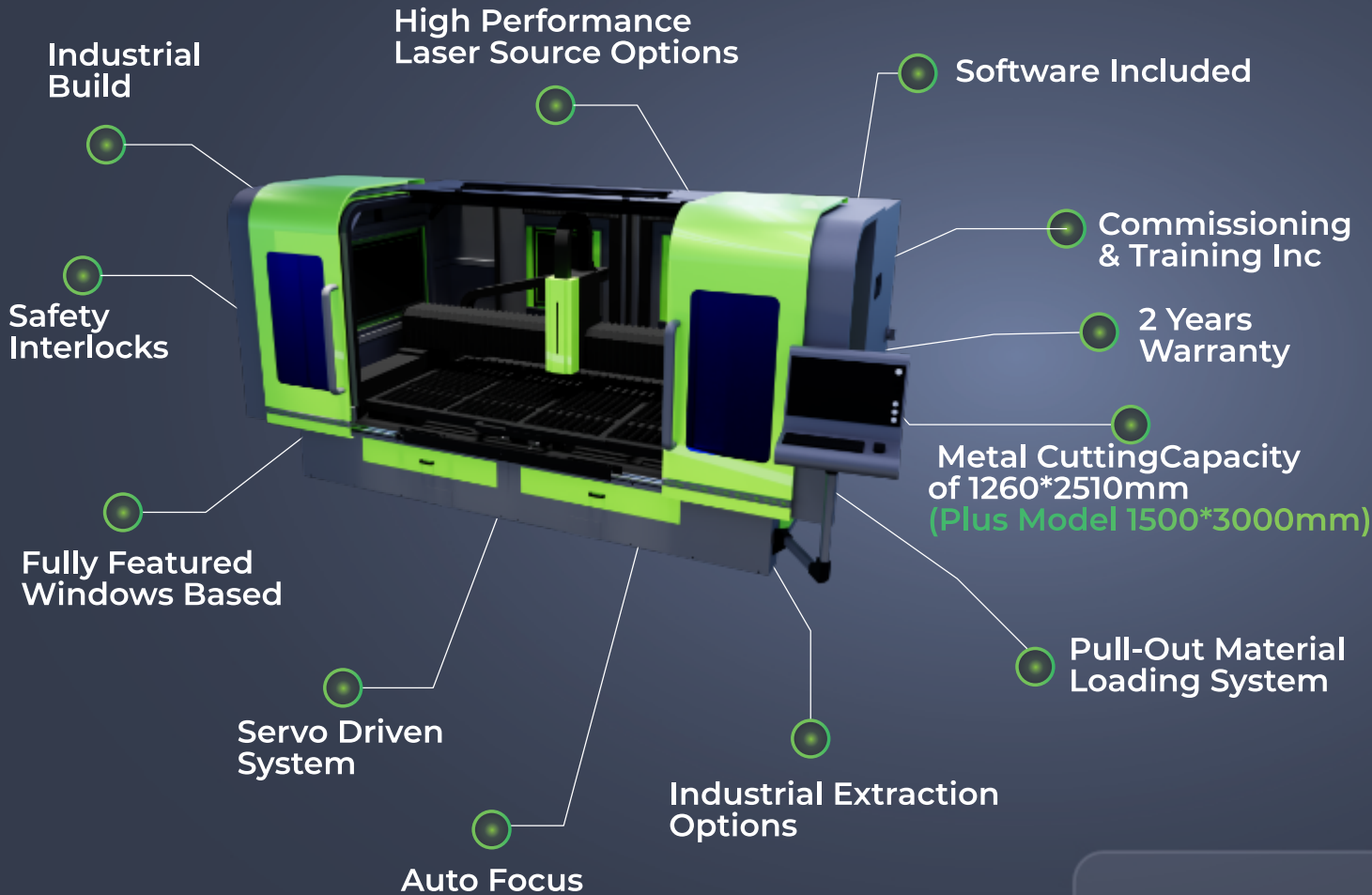


Fibre Lasers

Affordable Machinery

**Aerospace / Automotive / Sign Making / Fabrication / Prototyping
Marine Engineering / Mechanical Fabrication / Construction
Electrical Components**

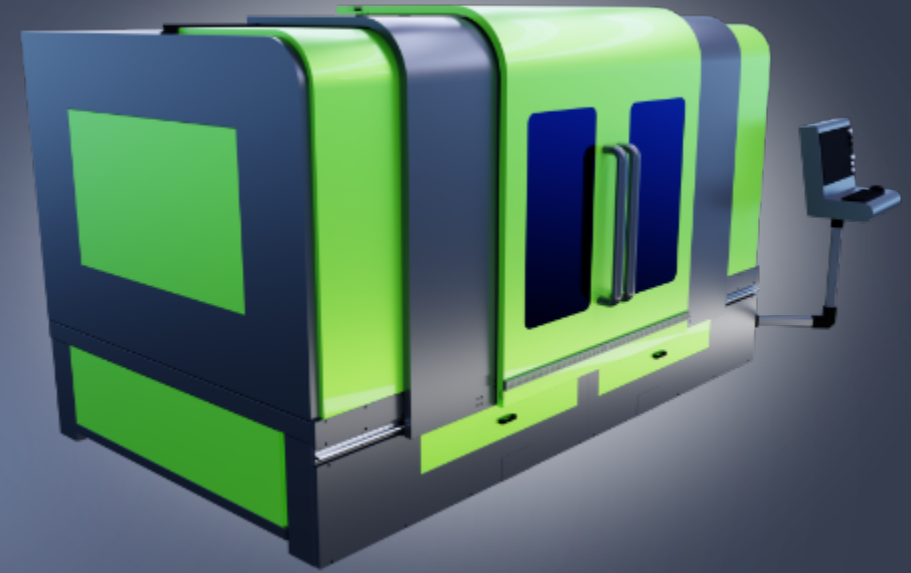




Our Titan 1225 Fibre Laser is an industrial solution for sheet metal cutting of flat plate. **The bigger brother** to our 90130 model (that has a bed size of 1300 x 900mm) is perfectly suited to engineering and fabrication applications this affordable, yet highly capable system comes with a generous table size of **1260*2510 mm**.

The Titan T2 can be configured up-to 3kW giving even the smallest of workshops impressive capabilities. With it's impressive feature set and competitive pricing the T2 is a high speed, ultra accurate, and affordable metal cutting solution for your business.

We have also introduced our **Titan T2 Plus model** that has a bed size of **1500*3000 mm** and allows for **laser power sources of up to 4kW** giving our customers even more versatility.



“This compact metal cutting laser comes in two flavours, T2 and T2 PLUS. High performance, versatile fibre lasers for any industry.”

TITAN T2





Standard Features & Equipment T2 model

High Performance Laser Source	500W/750W/1kW/1.5kW/2kW/3kW/
Cutting Head	Raytools
Servo Motor & Drive System	Japanese YASAWA, Double Y axis ball screw transmission
Guide Rail System	HIWIN (Taiwan)
Ball Screw	TBI (Taiwan)
Water Chiller System	S & A CWFL-3000
CNC Control	Cypcut
Software	Cypcut laser cutting and control system
Worktable Type	Blade Saw 1260 x 2510 mm
Power Requirements	3 Phase AC 380V 50HZ
Delivery	UK mainland included (Offloading and siting of the machine is the end user's responsibility; additional cost option if required). HIAB delivery also available, ask for details.
Installation	Our professional installation team will fully commission your new machine - customer must have the correct electrical/air outputs available (we will advise you on what is required).
Training	Full operational training included, combined with basic software use.
Warranty	2 Years standard parts and labour warranty with extended warranty periods available.



Standard Features & Equipment T2 PLUS model

High Performance Laser Source	500W/750W/1kW/1.5kW/2kW/3kW/4kw Option
Cutting Head	Raytools
Servo Motor & Drive System	Japanese YASAWA, Rack & Pinion
Guide Rail System	HIWIN (Taiwan)
Ball Screw	TBI (Taiwan)
Water Chiller System	S & A CWFL-3000 (4kW CWFL-4000)
CNC Control	Cypcut
Software	Cypcut laser cutting and control system
Worktable Type	Blade Saw 1500 x 3000 mm
Power Requirements	3 Phase AC 380V 50HZ
Delivery	UK mainland included (Offloading and siting of the machine is the end user's responsibility; additional cost option if required). HIAB delivery also available, ask for details.
Installation	Our professional installation team will fully commission your new machine - customer must have the correct electrical/air outputs available (we will advise you on what is required).
Training	Full operational training included, combined with basic software use.
Warranty	2 Years standard parts and labour warranty with extended warranty periods available.



Cutting Capacity Chart

Material	500W	750W	1kW	1.5kW	2kW	3kW	4kW
Carbon Steel	5mm	8mm	10mm	14mm	18mm	20mm	22mm
Stainless Steel	3mm	4mm	5mm	6mm	8mm	10mm	10mm
Aluminium	2mm	3mm	3mm	4mm	5mm	8mm	10mm
Brass	1.5mm	2mm	2mm	3mm	4mm	6mm	8mm
Copper	0.5mm	1.2mm	2mm	3mm	3mm	5mm	6mm

*Please note absolute maximum values (expect burr and or dross) may differ due to material variation and local environment. Guide figures only.



Laser Source

Fibre laser light energy is created by banks of diodes. The light is transferred through special fibre optic cable, an efficient energy transfer compared to conventional methods. The light, upon exiting the fibre cable, is then collimated (straightened) as it approaches the focus lens – which intensifies the beam enabling it to cut through the material with astonishing speed and accuracy

Raytools Laser Head - BM11 (BM15 on the T2 Plus) Auto Focus

Raytools cutting head with high-performance non-contact capacitive height sensor is used and is designed to withstand high 'gas assist' pressures. The proven lens cartridge change system makes switching lenses for different materials or applications fast & simple.

A. High cutting speed with the best cutting quality

B. Dust proof design

C. Protective window (lens) can be replaced as a consumable part, to extend the life of the focusing lens and reduce lens contamination greatly.





High Performance Laser Source

High electro-optical conversion efficiency.

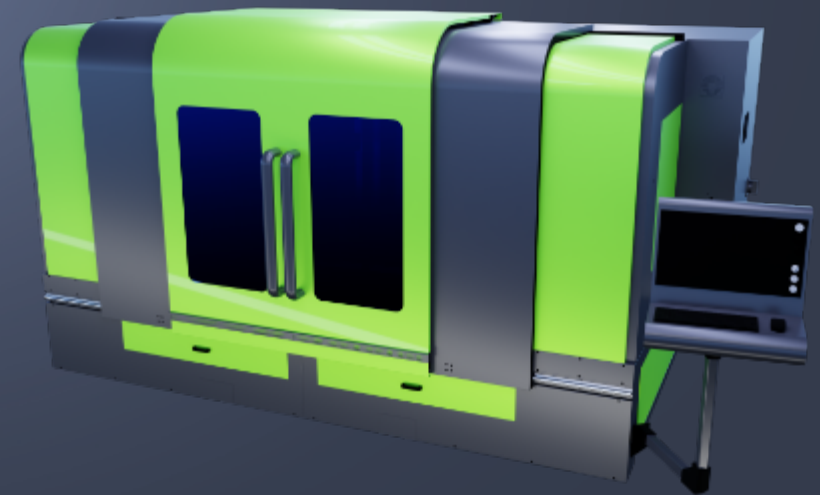
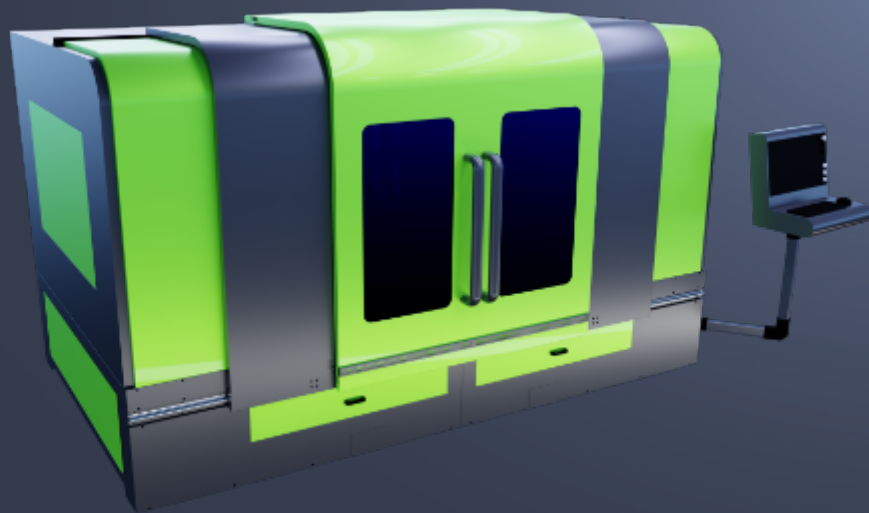
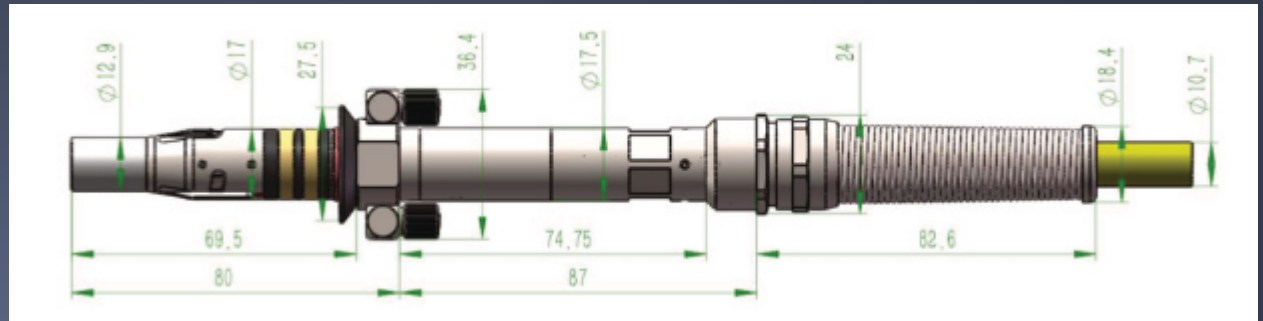
Customised output fibre length.

QBH output connector.

Maintenance free operation.

Wavelength 1080(nm)

Dynamic work range of 10-100% of the rated output





S&A CWFL 3000 (CWFL 4000 on the T2 Plus) Chiller System



- A.** Dual function intelligent cooling system, specifically designed for fibre laser machines, ensuring the efficient operation of laser cutting head and laser source
- B.** $\pm 0.3^{\circ}\text{C}$ Precise temperature control.
- C.** Multiple alarm functions: compressor time-delay protection, compressor over current protection, water flow alarm and high/low temperature alarm.
- D.** Full CE approval, RoHS approval, REACH approval.

Transmission System

Precise positioning & repeat-ability with 'Double Y Axis' Taiwanese TBI Ball screw system. (Rack & Pinion on the T2 Plus)

Drive System

Closed loop AC servo drive system and servomotors to ensure high dynamics, vibration- free operation and maximum precision.



Control Software

- A.** Power Automation CNC Control with integrated I/O
- B.** Each system is equipped with the HMI (Human Machine Interface). With this open, browser based all important control functions are clearly represented to the operator, so it will work within shortest training time efficiently and safely with the CNC system.
- C.** The CNC Systems are equipped with high-speed processors to accomplish an extremely fast 'Block Throughput". Highly accurate contours with very small NC blocks can be processed without any loss of speed. Therefore, the machine always reaches its highest productivity.
- D.** Cypcut laser cutting control system Support AI, DXF, PLT and other graphic data formats CAD module/nesting + processing function.

Weight & dimensions

Model	Width (mm)	Height (mm)	Depth (mm)	Weight (Approx) (kg)
Titan T2 1225	4195	2640	2640	3000kgs
Titan T2 Plus 1530	4850	2640	2995	3600kgs
Chiller	550	950	770	95kgs



Fibre Lasers

Affordable Machinery



Fibre Lasers
Installation: Isle Of Wight

MANTECH



Model T2 (3kW)

- CO2 LASER
- CNC ROUTER
- FIBRE LASER
- PRESS BRAKE
- CNC PLASMA
- SHEET METAL
- DIGITAL CUTTING

www.mantechmachinery.co.uk

Fibre Lasers
Installation: Eiland

MANTECH



Model T2

- CO2 LASER
- CNC ROUTER
- FIBRE LASER
- PRESS BRAKE
- CNC PLASMA
- SHEET METAL
- DIGITAL CUTTING

www.mantechmachinery.co.uk

Fibre Lasers
Installation: Walthamstow

MANTECH



Model T2

- CO2 LASER
- CNC ROUTER
- FIBRE LASER
- PRESS BRAKE
- CNC PLASMA
- SHEET METAL
- DIGITAL CUTTING

www.mantechmachinery.co.uk

Fibre Lasers
Installation: Truro

MANTECH



Model T2

- CO2 LASER
- CNC ROUTER
- FIBRE LASER
- METAL CUTTING
- CNC PLASMA
- PRESS BRAKE
- DIGITAL CUTTING

www.mantechmachinery.co.uk

Fibre Lasers
Installation: Crewe

MANTECH



Model T2

- CO2 LASER
- CNC ROUTER
- FIBRE LASER
- PRESS BRAKE
- CNC PLASMA
- SHEET METAL
- DIGITAL CUTTING

www.mantechmachinery.co.uk

Fibre Lasers
Installation: Stourbridge

MANTECH

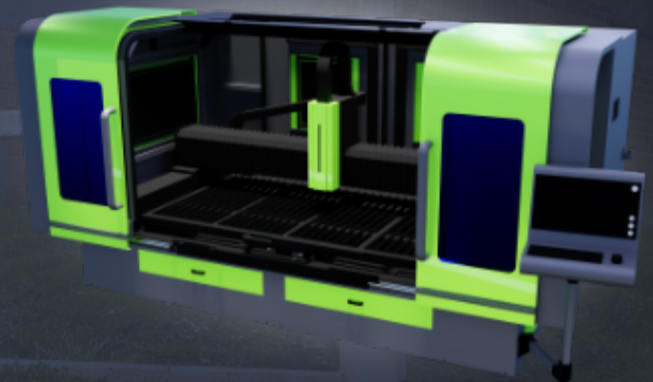
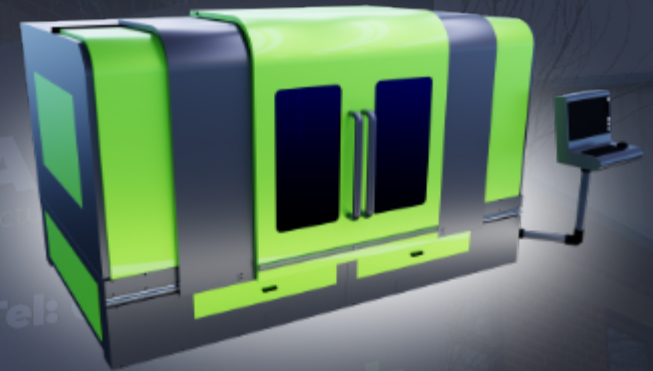


TITAN T2 3KW LASER

- CO2 LASER
- CNC ROUTER
- FIBRE LASER
- PRESS BRAKE
- CNC PLASMA
- SHEET METAL
- DIGITAL CUTTING

www.mantechmachinery.co.uk

TITAN T2



TITAN T1

Premium Compact Fibre Lasers

Mantech (UK) Ltd

Heywood Wharf, Mucklow Hill, Halesowen, B62 8DJ

www.mantechmachinery.co.uk

