

INFORMATION & SPECIFICATIONS

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Bed size options 1300 X 900 mm



STANDARD FEATURES & EQUIPMENT

Available in bed sizes of	1300 x 900 mm
Laser source	Raycus 500W 750W 1KW
Table type	Blade saw work table
Cutting head	Raytools
Servo motor & drive system	Double Y axis ball screw transmission, YASKAWA (Japan)
Guide rails	HIWIN/PMI Taiwan
Ball screw	TBI (Taiwan)
Water chiller	S & A CWFL500/CWFL800
CNC control	Cypcut
Software	Cypcut cutting control system
Power requirements	3 Phase AC 380V 50HZ
Training	Full training on both machine & software.
Warranty	12 months standard warranty with extended warranty periods available.

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Material Cutting Chart

An extremely capable yet compact fibre laser cutting machine

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MATERIAL	500W	750W	1KW	GAS ASSIST TYPE
Carbon steel	*5mm	*8mm	*10mm	Oxygen
Stainless steel	*3mm	*4mm	*5mm	Nitrogen
Aluminium	*2mm	*3mm	*3mm	Nitrogen
Brass	*1.5mm	*2mm	*2mm	Nitrogen
	*0.5mm	*1.2mm	*2mm	Nitrogen

Consumables Included

ITEMS INCLUDED

X6 nozzles

X6 protective lenses

X1 focus lens



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Technical Features

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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

Control Software System

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.

Transmission System

Precise positioning & repeat-ability with 'Double Y Axis' Taiwanese TBI Ball screw system.

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.

Raytools Laser Head

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. Quick change-over between three focal lengths without changing the TCP (Tool Centre Point)

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

Driving System (YASKAWA)

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

Control Software System

A. Dual function intelligent cooling system, ensuring the efficient operation of laser cutting head and laser source

B. 5 HP compressor, brands that are highly efficient and reliable

C. Overcurrent/ overload protection High – and low-pressure protection via means of flow switch

D. High and low temperature alarm signals output E. LCD display temperature controller with multiple function setting and error alarming

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