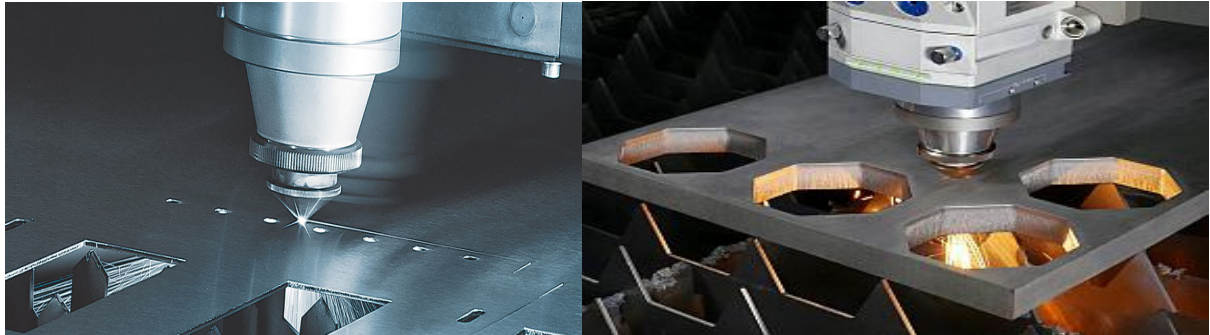




INDUS ARC OPEN TYPE FIBER LASER CUTTING SYSTEM



LASER CUTTING MACHINE

"TURBO SHARP -3015"

PRODUCT Description

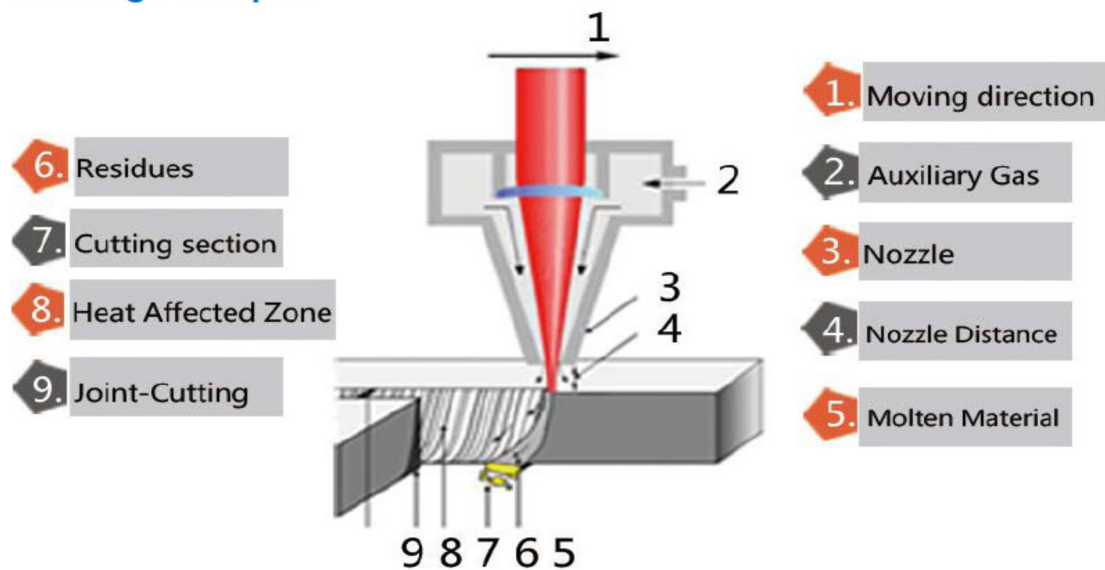
Model: Turbo –Sharp 3015

- Fiber Laser Power Source options from 500W, 1KW, 1.2KW, 1.5KW
- Structure: Gantry Double Drive.
- Heavy Duty alloy beam (Y Axis) to provide High dynamic performance. The optical path changes while the sheet remains still, thus the processing efficiency is high.
- X, Y axis adopts high quality gear and rack, reduction gear, ensuring life and precision for a long time.
- The system is equipped with section dust collector to improve the working environment. The area beneath the cutting table is divided into several sections. During the cutting process, only the ducts directly beneath the cutting head are open for fume extraction. The ducts in the other sections remain closed to improve dust collection.

Technical Parameters of the Machine:

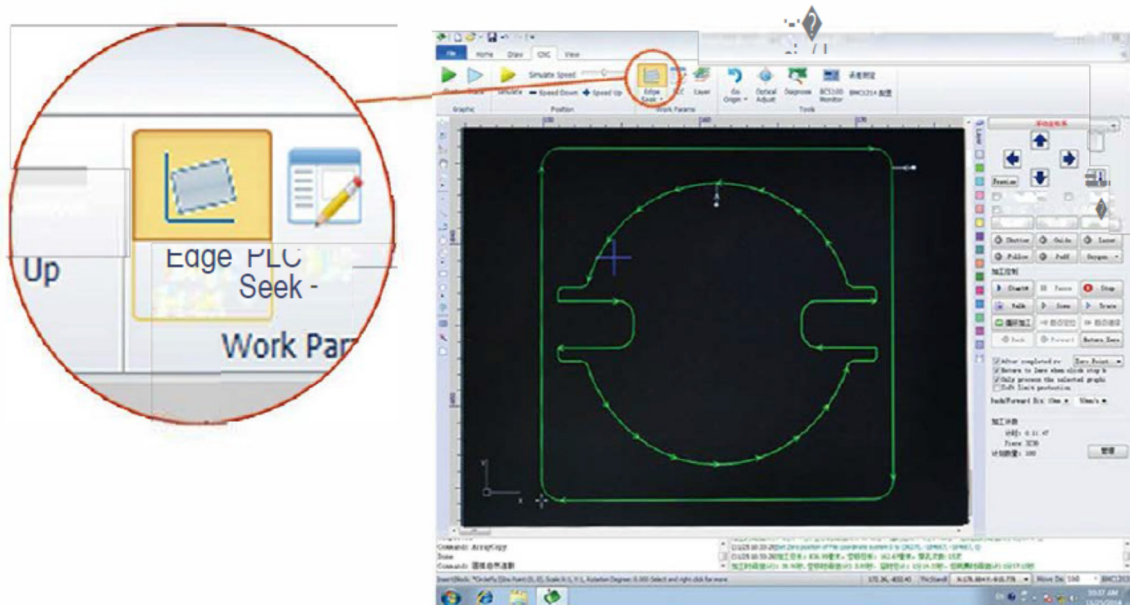
Equipment model	Turbo- Sharp 3015
Laser Type	Fiber Laser
Laser Working media	Fiber
Laser wavelength	1070 mm
Rated output power	500W, 1KW, 1.2KW, 1.5KW
Beam quality	< 0.373mrad
Effective cutting range	1500 X 3000mm
Workbench axial positioning accuracy	≤ ±0.02mm/m
Workbench repositioning Accuracy	≤ ±0.02mm/m
Cutting Speed	≤ 45m/min (Depends on material & thickness)
Workbench maximum weight	3800KG
Rated parameters of power supply	3 Phase AC, 415 V 50 Hz
Equipment Electric power	10-30 KW
Total power protection class	IP54

Working Principle:

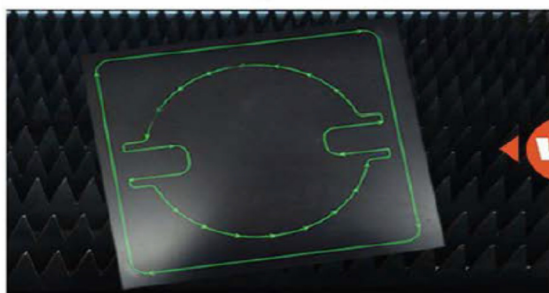


Automatic edge seeking function.....

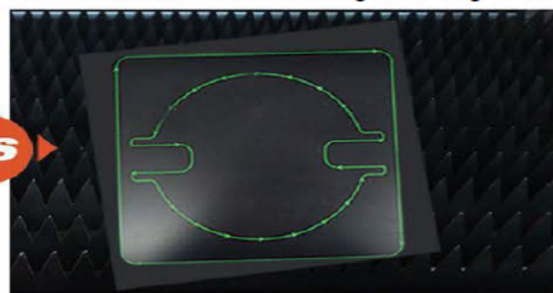
Auto-induct materials cutting edge and adjust cutting range according to their inclination angle automatically in case any incorrect Positioning



With automatic edge seeking



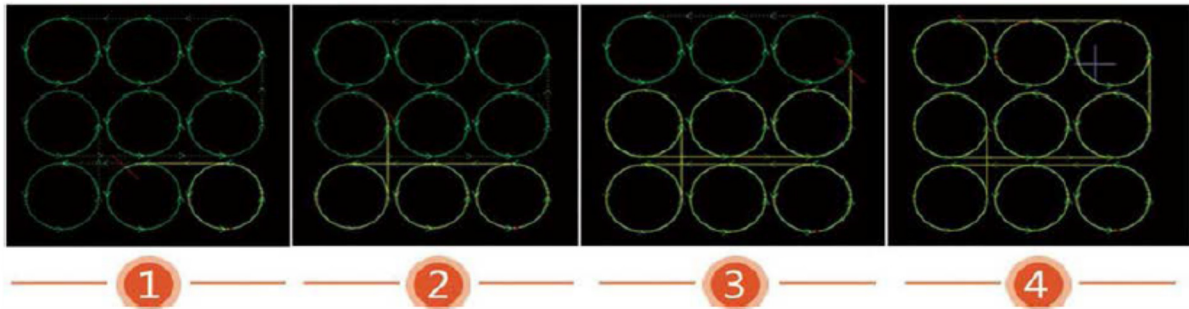
Without automatic edge seeking



VS

Flying cutting

To reduce the change of cutting path, and improve the cutting efficiency, saving



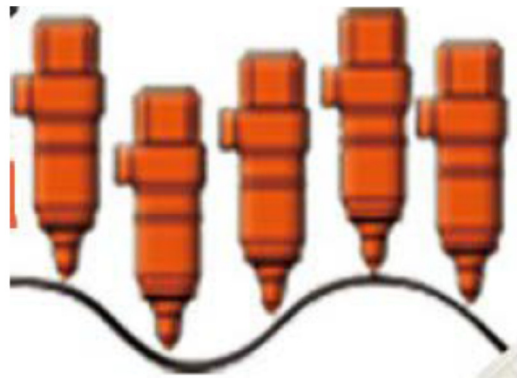
Power

Japan yaskawa servo motor



Auto-following laser head

Automatically adjust the focal distance according to the bump degree of plate



CUTTING SPEED FOR VARIOUS THICKNESSES

500W Cutting parameter					
Material	Thickness	Speed (m/min)	Air Pressure (MPA)	Gas	Cutting focus
SS	0.5	>18	1	N2	0.6
	1	8.4~12	>1.1	N2	0.6
	2	1.8~2.4	>1.8	N2	0.6
	3	0.84~1.2	>2.0	N3	0.6
CS	1	8.4~12	1	O2	1
	2	3~4.2	0.6~0.8	O2	1
	3	1.5~2.1	0.25~0.4	O2	1
	4	1.2~1.5	0.15~0.2	O2	1
	5	0.9~1.2	0.15~0.2	O2	1
	6	0.72~0.96	0.1~0.2	O2	1
If you always cut,suggest SS less than 2mm,CS less than 5mm					
750W Cutting parameter					
Material	Thickness	Speed (m/min)	Air Pressure (MPA)	Gas	Cutting focus
SS	0.5	>21	1	N2	0.6
	1	12~18	>1.1	N2	0.6
	2	3.6~4.2	>1.5	N2	0.6
	3	1.2~1.8	>1.8	N2	0.6
	4	0.78~1.2	>2.0	N2	0.6
CS	1	12~18	1	O2	1
	2	4.2~5.4	0.6~0.8	O2	1
	3	3~3.9	0.25~0.4	O2	1
	4	1.8~2.4	0.15~0.2	O2	1
	5	1.2~1.8	0.15~0.2	O2	1
	6	0.9~1.2	0.10~0.15	O2	1
	8	0.72~1.84	0.10~0.15	O2	1
	10	0.6	0.10~0.15	O2	1
If you always cut,suggest SS less than 3mm,CS less than 6mm					
1000W Cutting parameter					
Material	Thickness	Speed (m/min)	Air Pressure (MPA)	Gas	Cutting focus
SS	0.5	>24	1	N2	0.6
	1	17~21	>1.1	N2	0.6
	2	5.4~7.2	>1.5	N2	0.6
	3	2.1~3	>2.0	N2	0.6
	4	0.8~1.5	>2.0	N2	0.6
	5	0.6~0.9	>2.0	N2	0.6
	1	15~18	1	O2	1
	2	5.1~6	0.5~0.8	O2	1
	3	3.5~4.2	0.25~0.4	O2	1
	4	2.3~2.7	0.15~0.2	O2	1
	5	1.7~2.1	0.15~0.2	O2	1
	6	1.2~1.8	0.10~0.15	O2	1
	8	0.9~1.1	0.10~0.15	O2	1
	10	0.6~0.72	0.10~0.15	O2	1
If you always cut,suggest SS less than 4mm,CS less than 8mm					

1200W Cutting parameter					
Material	Thickness(mm)	Speed(m/min)	Air Pressure (MPA)	Gas	Cutting focus
SS	1	24	1	N2	0.6
	2	6	>1.1		0.6
	3	2.8	>1.5		0.6
	4	1.8	>2.0		0.6
	5	0.8	>2.0		0.6
CS	1	18	1	O2	1
	2	6.6	0.5~0.8		1
	3	4.5	0.25~0.4		1
	4	2	0.15~0.2		1
	5	2	0.15~0.2		1
	6	1.8	0.10~0.15		1
	8	1.3	0.10~0.15		1
	10	0.9	0.10~0.15		1
	12	0.6	0.10~0.16		1
Aluminum	2	6.6	>1.5	N2	0.6
	3	1.8	>1.5		0.6
If you always cut,suggest SS less than 4mm,CS less than 8mm					
1500W Cutting parameter					
Material	Thickness(mm)	Speed(m/min)	Air Pressure (MPA)	Gas	Cutting focus
SS	1	25	1	N2	0.6
	2	7	1.4		0.6
	3	4	1.8		0.6
	4	2	1.8		0.6
	5	1.3	2		0.6
	6	0.7	2		0.6
CS	1	25	1	O2	1
	3	4	0.12		1
	6	1.6	0.14		1
	8	1.2	0.14		1
	10	1	0.16		1
	12	0.8	0.18		1
	14	0.6	0.2		1
	16	0.5	0.05		1
Aluminum	1	16	1.2	N2	0.6
	2	6	1.4		0.6
	3	2.5	1.8		0.6
	4	1.3	2		0.6
Copper	2	4	1.6	N2	0.6
	3	1.5	1.8		0.6
Bronze	2	2	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		0.6

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