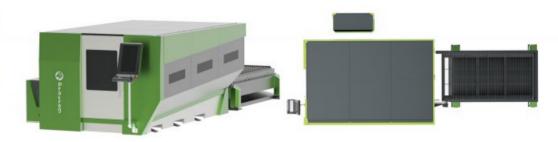
## **Closed Series BETA**

- 21" LCD Industrial Touch Screen
- Windows Based Cnc Controller
- **Operator Panel**
- Safe Module Inputs and Outputs
- Chiller
- Automatic Height Control System
- Automatic lubrication system
- Laser Cutting Head
- 250 mm Standard Stroke
- 3 Axis (X, Y,Z) Movement
- Servo Motor and drivers set
- Planetary Gearbox
- Troubleshooting and service opportunity with remote connection

- High Precision Linear Rails
- High Precision Helix Gear and Creamer
- Cable Channels on X,Y, Z Axes
- Table with Cnc Controlled Hydraulic System
- Fixed Control Panel System
- 3 Emergency Buttons
- Nesting Program



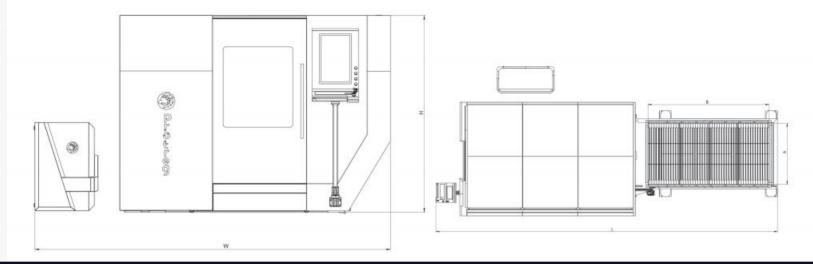


RESONATOR SPECIFICATIONS								
Resonator	watt	1000	2000	3000	4000	6000	8000	
Multi-mode BPP	rad		<2.8, 1.7 Typ.		2.0, 3.3, 5.0, 6.0			
Power Stability	%	± 1	± 1	± 1	± 2	± 2	± 2	
Single-mode Fiber Core	μm		100		50, 100, 150, 200			
Coolant flow rate	l/min		2			2		
Thickness	-	-	-	-	-	-	-	
BLACK STEEL (S235JR,S355MC)	mm	8	16	18	20	25	25	
STAINLESS STEEL (AISI 304)	mm	3	6	8	10	12	14	
ALUMINUM (ALMG3)	mm	3	6	8	10	12	14	
COPPER (CU-ETP)	mm	2	4	5	6	8	12	
COPPER (CUZN37)	mm	2	4	5	6	8	12	
Maximum Modulation Rate	kHz	50	50	50	50	50	50	
Wavelength	nm		1075 ± 10			1074 ± 6		
Auxiliary Gases	-							

OXYGEN AZOTE DRY AIR

0.5-6 Bar 0.5-25 Bar 0.5-25 Bar





## **CLOSED LASER SERIES COMPACT TYPE CUTTING MACHINES**

TECHNICAL SPECIFICATIONS							
Working Area	mm	1500x3000	2000X4000	2000×6000			
Max. Loading	kg	1500	2750	4000			
Axis movements	-						
X,U AXES/SERVO MOTOR TABLE (B)	mm	3220	4370	6570			
Y, AXIS/SERVO MOTOR BRIDGE (A)	mm	1590	2090	2090			
Z, AXIS/SERVO MOTOR CUTTING HEAD	mm	150	150	150			
Acceleration	G	1-2	1-2	1-2			
Max. Axis speeds	m/min	141 (Result speed) (X,Y single axis speed 100 meters/min)					
Shuttle	Palet	Automatic (Double Pallet)					
Machine dimensions (LxWxH)	mm	8000x2650x2005	10500x3150x2005	13000x3150x2005			
Weight ≈	kg	5000	6750	9000			
Machine Axis	_	4 Eksen (X,Y,Z,U)					
Positioning accuracy	mm	nm ±0,1					
Repetition accuracy	mm	±0,05					
CNC	-	<b>~</b>	✓	✓			
CAD-CAM Software	_	<b>V</b>	✓	✓			
Network	-	EtherCAT					
Control Panel – 21-inch touch screen,Industrial type psl. keyboard,PL							

				Laser	Cuttin	g Thic	kness	& Speed	Chart		
		500W	1000W	1500	2000W	3000W	4000W	6000W	8000W	10000W	12000W
	<b>TI.</b> I	speed	speed	speed	speed	speed	speed	speed	speed	speed	speed
	Thick	m/min	m/min	m/min	m/min	m/min	m/min	m/min	m/min	m/min	m/min
Carbon Steel (Q235A)	1	7.0-9.0	8.0-10	1526	2430	30-40	33-42	3542	3542	35-42	35-42
	2	3.0-4.5	4.06.5	4.57.0	4.7-6.0	4.8-7.5	5.2-8.0	6.08.0	6.2-10	7.0-12	10-13
	3	1.8-3.0	2.43.0	2.64.0	3.0-4.8	3.3-5.0	3.5-5.5	3.86.5	4.07.0	4.2-7.5	4.5-8.0
	4	1.3-1.5	2.02.4	2.53.0	2.8-3.5	3.0-4.2	3.1-4.8	3.55.0	3.55.5	3.5-5.5	3.55.5
	5	0.9-1.1	1.52.0	2.02.5	2.2-3.0	2.6-3.5	2.7-3.6	3.3-4.2	3.34.5	3.3-4.5	3.3-4.8
	6	0.6-0.9	1.41.6	1.62.2	1.8-2.6	2.3-3.2	2.5-3.4	2.84.0	3.04.2	3.0-4.2	3.0-4.2
	8		0.81.2	1.01.4	1.2-1.8	1.8-2.6	2.0-3.0	2.2-3.2	2.53.5	2.5-3.5	2.5-3.5
	10		0.61.0	0.81.1			1.5-2.0	1.82.5	2.2-2.7	2.2-2.7	2.2-2.7
	12		0.50.8	The second second second	0.9-1.2	March and a single-sense of a straintenant	1.2-1.8	1.22.0	1.2-2.1	1.2-2.1	1.2-2.1
	14			0.50.7	0.7-0.8		0.9-1.2	1.51.8	1.71.9	1.7-1.9	1.7–1.9
	16				0.6-0.7	0.7-1.0	0.8-1.0	0.8-1.5	0.91.7	0.9-1.7	0.9–1.7
	18				0.4-0.6	0.6-0.8	0.650.9	0.65-0.9	0.65-0.9	0.65-0.9	0.65-0.9
	20					0.50.8	0.6-0.9	0.60.9	0.60.9	0.6-0.9	0.60.9
	22					0.4-0.6	0.5-0.8	0.50.8	0.50.8	0.5-0.8	0.5-0.8
	25						0.3-0.5	0.30.5	0.30.7	0.3-0.7	0.3-0.7
	1	8.013	1825	2027	2430	30-35	32-40	4555	5066	6075	70–85
	2	2.4-5.0	7.0-12	8.0-13	9.0-14	13-21	16-28	2035	3042	4055	50-66
	3	0.6-0.8	1.82.5	3.05.0	4.0-6.5	6.0-10	7.015	1524	2030	27-38	33-45
Stainless Steel (201)	4		1.21.3	1.52.4	3.0-4.5	4.0-6.0	5.0-8.0	1016	1421	1825	22-32
	5		0.60.7	0.71.3	1.8-2.5	3.0-5.0	4.0-5.5	8.0-12	1217	15-22	18-25
	6			0.71.0	1.2-2.0	2.0-4.0	2.5-4.5	6.09.0	8.0-14.0	1215	15-21
	8				0.7-1.0	1.5-2.0	1.6-3.0	4.0-5.0	6.08.0	8.0-12.0	10-16
	10					0.6-0.8	0.8-1.2	1.8-2.5	3.05.0	6.0-8.0	8.012
	12					0.4-0.6	0.5-0.8	1.2-1.8	1.8-3.0	3.0-5.0	6.0-8.0
	14						0.4-0.6	0.60.8	1.2-1.8	1.8-3.0	3.0-5.0
	20 25							0.40.6	0.60.7	1.2-1.8	1.8-3.0
	30								0.50.6 0.40.5	0.6-0.7 0.5-0.6	1.2-1.8 0.6-0.7
	40								0.40.5	0.4-0.5	0.5-0.6
	1	4.0-5.5	6.0-10	1020	1525	25-38	35-40	4555	5065	60-75	70-85
	2	0.7-1.5	2.83.6	5.07.0	7-10	10-18	13-25	20-30	2538	33-45	38-50
	3	0.7 1.0	0.71.5	2.04.0	4.0-6.0	6.5-8.0	7.0-13	1318	2030	25-35	30-40
Aluminum	4		0.7 1.0	1.01.5	2.0-3.0	3.5-5.0	4.0-5.5	10-12	1318	21-30	25–38
	5			0.71.0		2.5-3.5	3.0-4.5	5.08.0	9.0-12	13-20	15-25
	6				0.7-1.0	1.5-2.5	2.0-3.5	4.06.0	4.58.0	9.0-12	13-18
	8				0.6-0.8	0.7-1.0	0.9-1.6	2.0-3.0	4.06.0	4.5-8.0	9.012
크	10					0.4-0.7	0.6-1.5	1.02.0	2.2-3.0	4.0-6.0	4.5-8.0
4	12					0.3-0.45	0.4-0.6	0.81.4	1.52.0	2.2-3.0	4.0-6.0
	16						0.3-0.4	0.60.8	1.01.6	1.5-2.0	2.2-3.0
	20							0.50.7	0.71.0	1.0-1.6	1.5-2.0
	25								0.50.7	0.7-1.0	1.0-1.6
	35									0.5-0.7	0.7-1.0
Brast	1	4.0-5.5	6.0-10	8.0-13	1016	20-35	25-30	4555	5565	6575	75-85
	2	0.5-1.0		3.04.5			8.0-12	2530	3040	33-45	38-50
	3		0.51.0	1.52.5			5.0-6.5	1218	2030	2540	30-50
	4			1.01.6	1.5-2.0	3.0-5.0	3.2-5.5	8.0-10	1018	1524	25–33
	5			0.50.7	0.9-1.2	1.5-2.0	2.0-3.0	4.56.0	7.09.0	9.0-15	15-24
	6				0.4-0.7	1.0-1.8	1.4-2.0	3.04.5	4.56.5	7.0-9.0	9.015
	8					0.50.7	0.7-1.0	1.62.2	2.44.0	4.5-6.5	7.0-9.0
	10						0.2-0.4	0.8-1.2	1.52.2	2.4-4.0	4.5-6.5
	12							0.2-0.4	0.81.5	1.5-2.2	2.4-4.0
	14								0.40.6	0.6-0.8	0.8-1.5

## Note: This table data is for reference only!

- 1. Different fiber optics, material quality, gases, optical lenses, cutting patterns, etc., will affect the cutting speed and need to be adjusted according to site conditions;
- 2. The yellow part is nitrogen (pure nitrogen) cutting, the green part is oxygen (pure oxygen) cutting;
- 3. Laser cutting in the processing of the limit material is inefficient and the effect will be reduced, can not be continuous processing;
- 4. For the cutting of high anti-corrosive materials such as copper and aluminum, attention should be paid to adjusting the process. It is not recommended to continuously process for a long time.