

WELDING



GRINDING



CUTTING



SAFETY



POWER TOOLS



Be Smart Select Smart

SmartCut Technologies



Complete Solution for Welding & Cutting

DEALS IN :

Fiber Laser Cutting/Welding Machine, CNC Plasma & Flame Cutting Machine, Filler Wires, ARC/MIG/TIG/GAS Welding Equipments, Plasma Accessories, HSS/TCT Core Cutter, Safety PPE, Grinding Wheel & Abrassives, Power Tools, and much more.....

Office & Works : Khasra No. 507, Plot no. 01, Nandgram Road, Near Prachin Shiv Mandir, Sihani, Ghaziabad - 201003 (U.P.)

Mob. : +91 8130774866, 9958495234, 7042049306

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Ghaziabad - 201003, Uttar Pradesh, India.

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GSTIN – 09ADLFS3792D1ZO

Email: smartcuttechnologies@gmail.com

Web: www.smartcuttechnologies.in



COMPANY PROFILE

We want to introduce as a genuine Manufacturer and Traders of Cutting Machine & Welding Machine since last many years by brand name "SMARTCUT" .

We are Providing Products like all kind of Fiber Laser Cutting Machine, Fiber Laser Welding Machine, CNC Plasma Cutting Machines , GAS Cutting Machine, Inverter Based Plasma Cutting Machine, Inverter based ARC / TIG / MIG Welding Machine, Gas Welding & Cutting Accessories, & Industrial Products etc.

We are one of the leading manufacturers of Transformer based ARC, TIG, MIG, PLASMA. Our machines are being supplied and appreciated by our customers located throughout india.

Our moto is to manufacture quality product at reasonable cost.
Totally manufacturing & trading at **GHAZIABAD & AHMEDABAD.**

"Our Purpose of Business is to Produce Happiness not to Pile up Millions."

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CNC PORTABLE LASER CUTTING MACHINE

Description:	Model	Laser Source & Cut Head	Photo
Effective cut area size: 1500*3000mm RAYCUS laser source RAYTOOLS AX3000 Touch screen PC operate system RAYTOOLS BM110/ BT220 Auto focus/ Manual Focus cut head AFLT water chiller Helical gear racks servo motor drive Aluminum profile rails with cover Free consumable kits	Flagship Model 1500mm*3000mm	1500W MAX / RAYCUS LASER SOURCE AUTO FOCUS CUT HEAD BM110	 
		3000W MAX / RAYCUS LASER SOURCE AUTO FOCUS CUT HEAD BM110	 RAYTOOLS
	Packing Flagship Model : 2pkgs 900kg 5cbm.		
Optional ↓			
Add 10KVA stabilizer			
Screw Air Compressor 7.5kw 13 BAR			

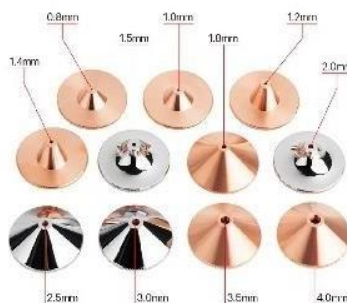


SMARTCUT TECHNOLOGIES.

Manufacturer, Importer and Traders of Fiber Laser Cutting,
CNC Plasma & Oxy Fuel cutting Laser welding equipment and
consumables

Plot No. 102, Nandgram Road, Sihani, Opp. Prachin Shiv

Consumables Kits:			
upper protective lens			Rare to broken
lower protective lens			1-3 months replace
ceramic ring			rare to broken
single layer nozzle(Stainless steel) 1.0 2.0 3.0			1-3 months replace
Double layer nozzle (Carbon steel) 1.0 2.0 3.0			depends on operator's Proficiency



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NO	Name	Specification	QTY	Unit	Remark
1	Laser Source	RAYCUS 1500W	1	pieces	BRAND NEW ORIGINAL
2	Water chiller	AFLT TRUE 2000W	1	pieces	AFLT thermal tech
3	Control System	RAYTOOLS AX3000	1	set	interface
4	Cutting head	RAYTOOLS BM110	1	pieces	automatic
5	Motor Drive	LEADSINE Servo	3	set	400W
6	Reducer	HUMFRY	3	set	High Precision
7	Lifting Module	Sealed screw slide 100mm	1	set	High Precision
8	X Y Rail Module	HIWIN	1	set	High-precision module, 6-stage helical gear, HIWIN straight line double track
9	Limit sensing	NC	3	set	Hugong/Omron
10	Tank chain	55*75	1	set	
11	Dust cover	Three anti-material	1	set	fully enclosed
12	Bed base	Only two sides support the specified table top	1	set	Includes breakaway workbench
13	Oxygen valve	NPPC	1	pieces	High Precision
14	high pressure valve	NPPC	2	pieces	20 kg force
15	Lazer PC	YINCHI	1	set	Touch screen keyboard and mouse dual-use/i3 Core Duo processor

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MACHINE REFERENCE PICTURES



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RAYTOOLS AX3000 TYPE OPERATE SYSTEM

(Touch screen, PC win11)



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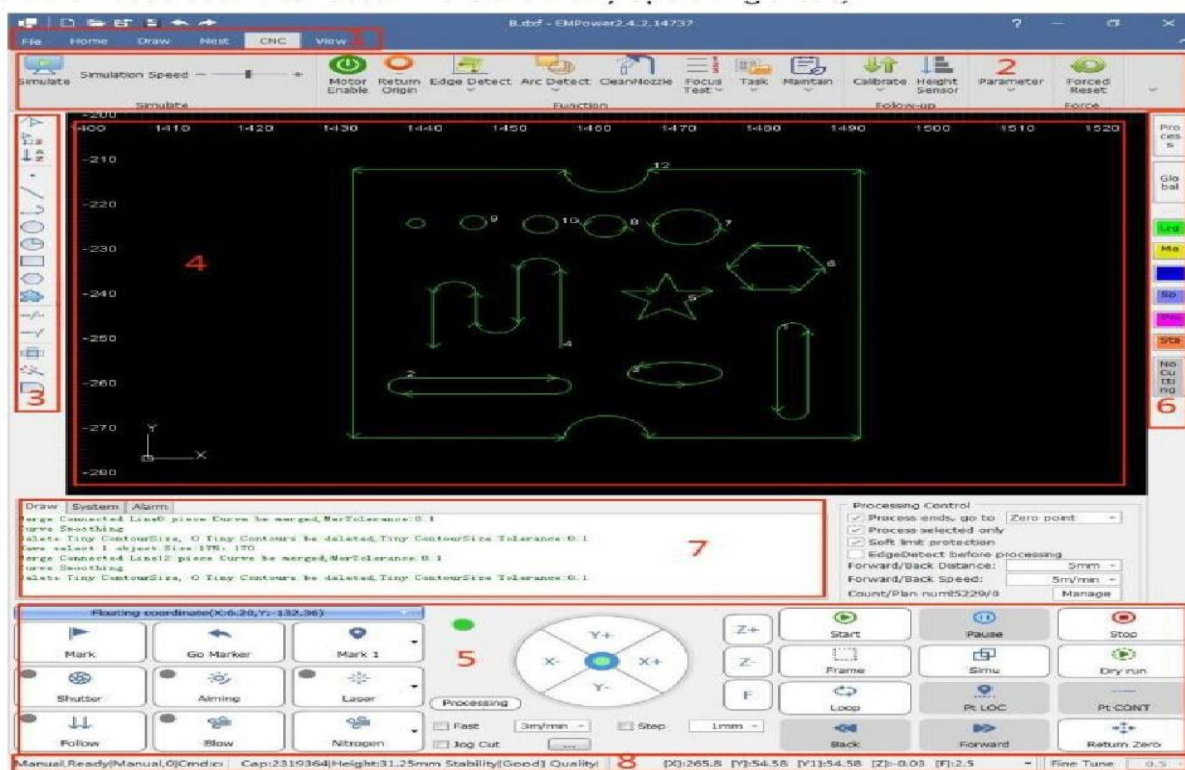
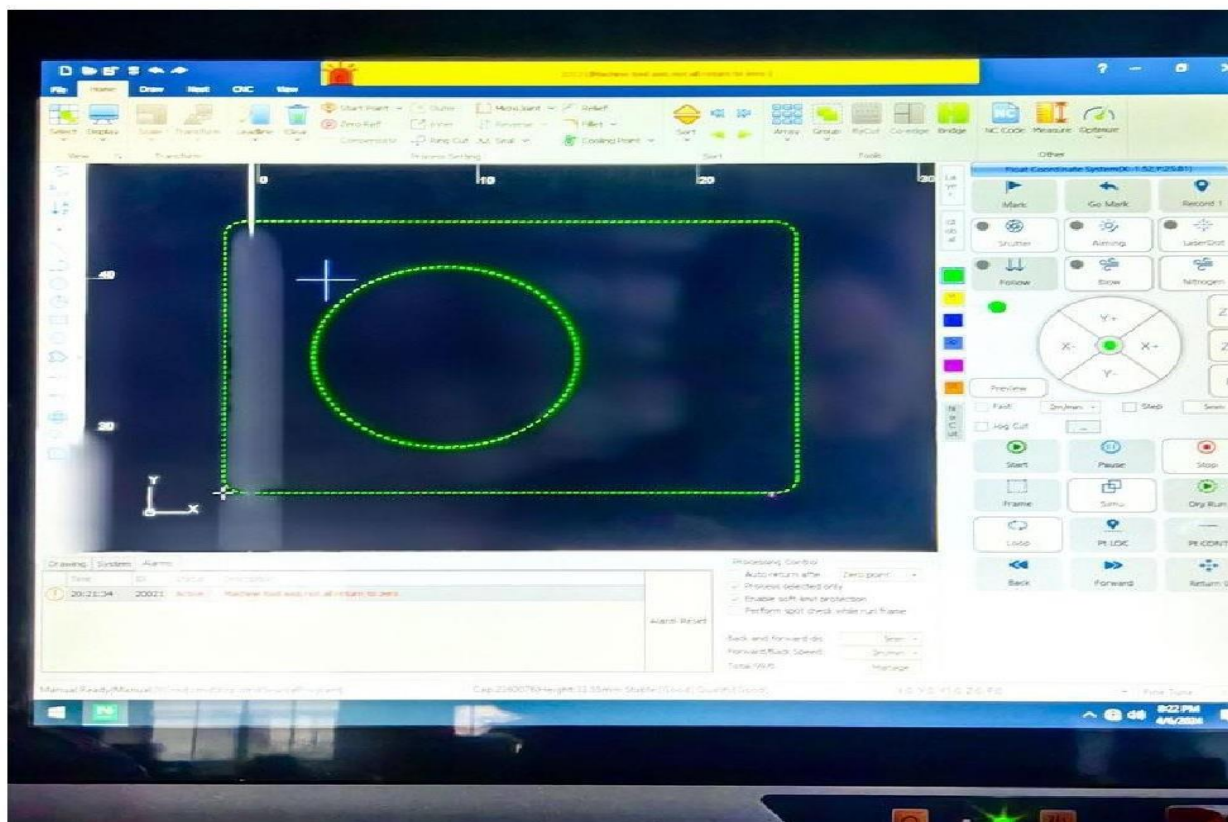
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LASER POWER SOURCE



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Flagship Model 1530 Packing:

1. 130*85*140cm 276kg

2. 410*87*88cm 624kg

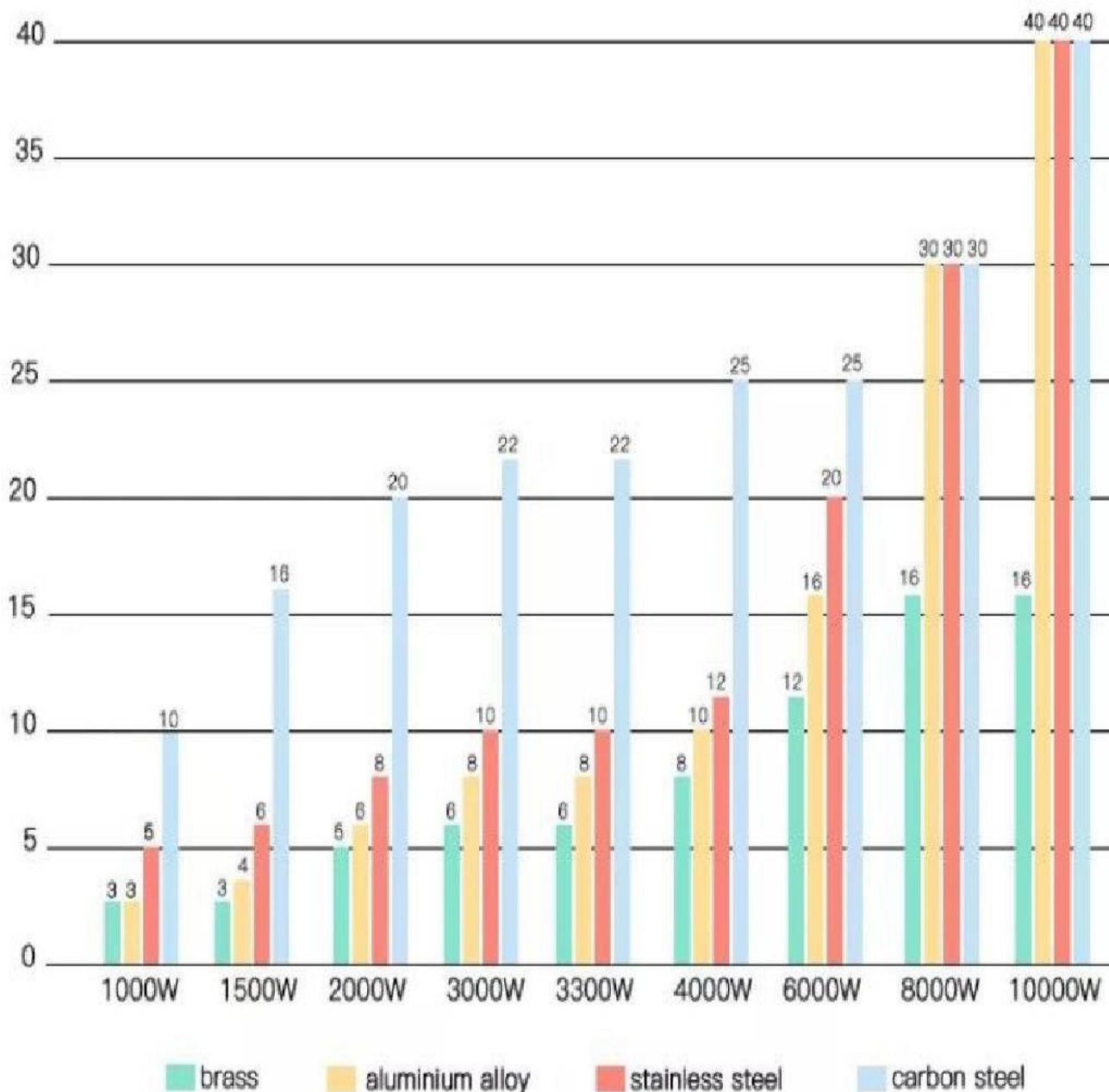
Total: 2 pkgs 900kg 5cbm!



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CUTTING PARAMETER





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1000W Laser continuous cutting process parameters

METAL	Thickness mm	Speed m/min	Gas type	Bar	Focus position	Nozzle	Cut height mm
Air Carbon Steel	1	20	Air	10	0	2.0 S	0.8
Carbon steel	1	10	O2	0.5-0.8	3	1.2 D	0.8
	2	5			3	1.2 D	0.8
	3	3			3	1.2 D	0.8
	4	2.4			3	1.2 D	0.8
	5	1.7			5	1.2 D	0.8
	6	1.4			5	1.2 D	0.8
	8	1.1			5	1.5 D	0.8
	10	0.7~0.85		0.5~0.8	3~4	2.5 D	0.8
	12	0.6~0.65		0.6~0.8	3~4	3.0 D	0.8
SS Steel	1	20	N2	16	0	1.5 S	0.8
	2	13			-1	2.0 S	0.5
	3	6			-1.5	2.5 S	0.5
	4	1			-2	2.5 S	0.5
	5	0.6			-2.5	3.0 S	0.5
Aluminium	1	10	N2	16	0	1.5 S	0.8
	2	5			-1	2.0 S	0.5
	3	1.5			-1.5	2.5 S	0.5

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1500W Laser continuous cutting process parameters

METAL	Thickness mm	Speed m/min	Gas type	Bar	Focus position	Nozzle	Cut height mm
Air Carbon Steel	1	20	Air	10	0	2.0 S	0.8
Carbon steel	1	10	O2 /AIR	0.5-0.8	3	1.2 D	0.8
	2	5	O2 /AIR	0.5-0.8	3	1.2 D	0.8
	3	3.5	O2 /AIR	0.5-0.8	3	1.2 D	0.8
	4	2.5	O2 /AIR	0.5-0.8	3	1.2D	0.8
	5	1.8	O2 /AIR	0.5-0.8	5	1.5 D	0.8
	6	1.4	O2 /AIR	0.5-0.8	5	1.5 D	0.8
	8	1.2	O2 /AIR	0.5-0.8	5	2.0 D	0.8
	10	1	O2 /AIR	0.5~0.8	3~4	2.5 D	0.8
	12	0.8	O2 /AIR	0.6~0.8	3~4	2.5 D	0.8
	14	0.6	O2/AIR	0.6~0.8	3~4	3.0 D	0.8
	16	0.5	O2/AIR	0.6~0.8	3~4	3.0 D	0.8
SS Steel	1	20	N2	16	0	1.5 S	0.8
	2	7	N2	16	-1	2.0 S	0.5
	3	4.5	N2	16	-2	2.5 S	0.5
	4	2.5	N2	16	-2	2.5 S	0.5
	5	1.5	N2	16	-2.5	3.0 S	0.5
	6	0.8	N2	16	-2.5--3	3.0s	0.5
Aluminium	1	16	N2	16	0	1.5 S	0.8
	2	6	N2	16	-1	2.0 S	0.5
	3	2.5	N2	16	-1.5	2.5 S	0.5
	4	0.8	N2	16	-2	2.5s	0.5

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2000W Laser continuous cutting process parameters

METAL	Thickness mm	Speed m/min	Gas type	Bar	Focus position	Nozzle	Cut height mm
Air Carbon Steel	1	20	Air	10	0	2.0 S	0.8
Carbon steel	1	10	O2	0.5-0.8	3	1.2 D	0.8
	2	5	O2	0.5-0.8	3	1.2 D	0.8
	3	4	O2	0.5-0.8	3	1.2 D	0.8
	4	3	O2	0.5-0.8	3	1.2D	0.8
	5	2	O2	0.5-0.8	5	1.5 D	0.8
	6	1.6	O2	0.5-0.8	5	1.5 D	0.8
	8	1.2	O2	0.5-0.8	5	2.0 D	0.8
	10	1	O2	0.5~0.8	3~4	2.5 D	0.8
	12	0.8	O2	0.6~0.8	3~4	2.5 D	0.8
	14	0.6	O2	0.6~0.8	3~4	3.0 D	0.8
	16	0.5	O2	0.6~0.8	3~4	3.0 D	0.8
	18	0.5		0.7-0.9	4-5	4.0D	0.8
	20	0.4		0.7-0.9	4-5	4.0D	0.8
SS Steel	1	26	N2	16	0	1.5 S	0.8
	2	10	N2	16	-1	2.0 S	0.5
	3	5	N2	16	-2	2.5 S	0.5
	4	3	N2	16	-2	2.5 S	0.5
	5	2	N2	16	-2.5	3.0 S	0.5
	6	1.2	N2	16	-2.5--3	3.0s	0.5
	8	0.6		16	-4	3.0S	0.5
Aluminium	1	18	N2	16	0	1.5 S	0.8
	2	10	N2	16	-1	2.0 S	0.5
	3	4	N2	16	-1.5	2.5 S	0.5
	4	1.5	N2	16	-2	2.5s	0.5
	5	0.9		16	-3	3.0S	0.5
	6	0.6		16	-3	3.0S	0.5

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3000-6000W Laser continuous cutting process parameters

material	thickness (mm)	gas type	3000w		6000w
			speed (m/min)		speed (m/min)
stainless steel	1	N ₂	50		70~75
	2	N ₂	13		25~30
	3	N ₂	8		12~15
	4	N ₂	5		7.5~9
	5	N ₂	2.5		6~7.5
	6	N ₂	1.5		5~6.5
	8	N ₂	1		3.5~4.5
	10	N ₂	0.8		2.1
	12		0.5		1.1
	14				0.9
carbon steel	1	Air	50		70~75
	2	Air	13		25~30
	3	O ₂	4.5		4.5
	4	O ₂	3.5		3.8
	5	O ₂	3		3.7
	6	O ₂	2.5		3.3
	8	O ₂	2		2.8
	10	O ₂	1.4		2.1
	12	O ₂	1.1		1.6
	14	O ₂	0.9		0.95
	16	O ₂	0.8		0.85
	18	O ₂	0.7		0.75
	20	O ₂	0.6		0.65
	22	O ₂	0.5		0.5
Aluminum	1	Air	45		70~75
	2	Air	11		25~30
	3	Air	7		15
	4	Air	4		10
	5	Air	1.5		8
	6	Air	1		5.5
	8	Air	0.5		2.5
	10	Air			1.3
	12	Air			0.9
Brass	1	Air	40		65~70
	2	Air	10		20~25
	3	Air	4		5
	4	Air	3		4
	5	air	1.5		3
	6	air	0.8		2
	8	air			1.2
	10	air			0.5

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