

Advantages

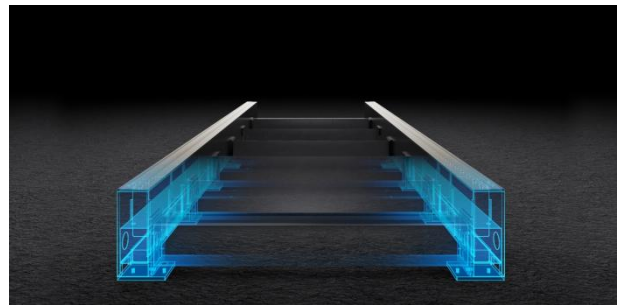


■ Fully Enclosed Sheet & Tube Integration

Combines sheet and tube cutting in one machine with enhanced safety, delivering high efficiency across diverse cutting tasks.

■ New Double-Keeper Bed Structure

Targeting high-efficiency machining needs, the self-developed double-keel design with interlocking stop joints ensures no deformation during long-term cutting and guarantees stable equipment operation.



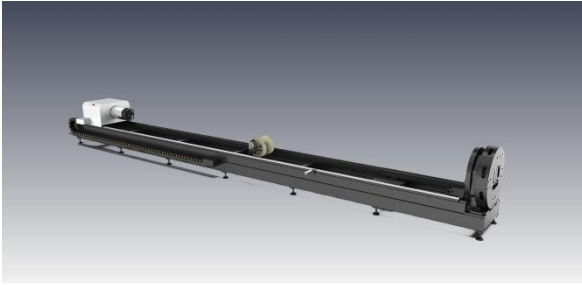
■ Smart Dual-Platform

Streamline loading and unloading workflow and reduces processing periods for better efficiency

■ Intelligent Control System

Supports flying cutting and smart nesting for faster, more efficient operation.



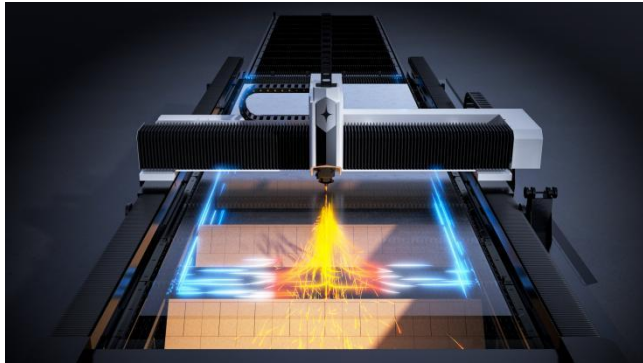
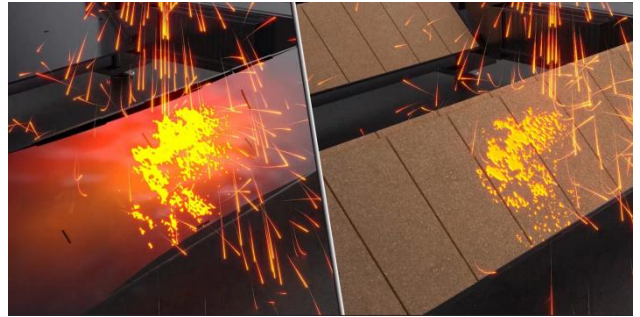


■ Large-diameter pneumatic chuck

One-button opening and automatic centering; pneumatic clamping with adjustable clamping force; capable of cutting angle steel and channel steel.

■ Advanced Heat-Resistant Design

The machine bed uses mineral fireproof materials to significantly reduce the risk of heat distortion during heavy-duty processing, extending the equipment's service life.

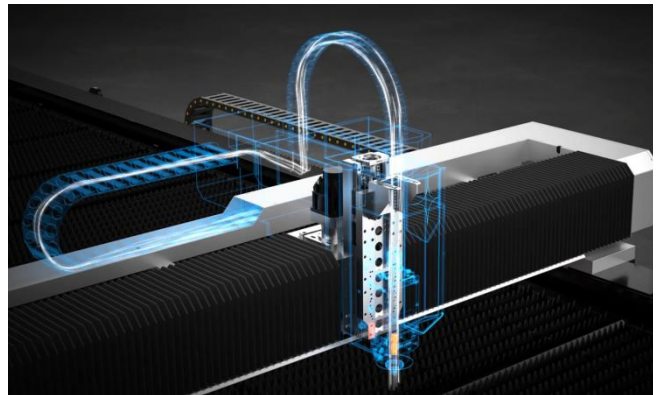


■ Follow-up Zoned Dust Removal

The zoned dust collection system achieves dust removal efficiency of $\geq 95\%$, effectively improving the cutting environment.

■ Intelligent and precise air pressure control

Through intelligent system monitoring, air pressure is detected and adjusted in real time to ensure stable cutting.



■ Metal sheet cutting thickness

Material	Gas	Thickness	1500W	2000W	3000W	6000W	12000W
			Speed m/min				
Carbon steel	N2/Air	1mm	20--25	20--25	30--35	30--35	30--35
		2mm	4--5	6--8	12--15	30--35	30--35
		3mm	/	/	/	15--20	20--30
		4mm	/	/	/	9--13	15--20
		6mm	/	/	/	6--8	10--13
		8mm	/	/	/	/	7--10
		10mm	/	/	/	/	6--6.5
		12mm	/	/	/	/	/
		14mm	/	/	/	/	/
		16mm	/	/	/	/	/
		18mm	/	/	/	/	/
		20mm	/	/	/	/	/
	O2	2mm	4--5	4--5	4--5	4--5	/
		3mm	2.6--3.3	2.6--3.3	2.6--3.3	2.6--3.3	/
		4mm	2.4--3	2.4--3	2.4--3	2.4--3	/
		6mm	1.6--2	2--2.4	2.2--2.6	2.4--3	/
		8mm	1--1.3	1.2--1.5	1.8--2.1	2.2--2.6	/
		10mm	0.9--1.0	0.9--1.1	1.4--1.6	2--2.4	2--2.4
		12mm	0.7--0.8	0.7--0.8	1--1.2	1.6--2	1.6--2
		14mm	0.6--0.7	0.6--0.7	0.7--0.9	1.2--1.4	1.6--1.8
		16mm	0.45-0.65	0.55-0.65	0.6--0.7	1--1.2	1.5--1.6
		18mm	/	0.55-0.65	/	/	/
		20mm	/	0.5-0.6	0.55--0.65	0.6-0.7	1.3--1.4
		25mm	/	/	/	0.5-0.6	0.7--0.9
		30mm	/	/	/	0.25-0.35	0.4--0.6
		35mm	/	/	/	0.1-0.2	0.3--0.4
		40mm	/	/	/	/	0.1--0.2
		45mm	/	/	/	/	/
		50mm	/	/	/	/	/
		55mm	/	/	/	/	/
		60mm	/	/	/	/	/
		70mm	/	/	/	/	/
		80mm	/	/	/	/	/
Stainless steel	N2/Air	1mm	20--30	20--30	25--35	30--35	30--35
		2mm	10--15	10--15	17--22	30--35	30--35
		3mm	4--6	4--6	6--8	15--20	20--30
		4mm	1.5--3	1.5--3	4--6	9--13	15--20
		6mm	0.8--1.1	0.8--1.1		6--8	10--13

		8mm	/	0.4--0.6	1.8--2.3	3--4	7--10
		10mm	/	/	0.9--1.2	1.5--2.5	6--6.5
		12mm	/	/	0.4--0.6	1--1.4	5--5.5
		16mm	/	/	0.1--0.2	0.6--0.8	2--2.3
		20mm	/	/	/	/	1.2--1.4
		25mm	/	/	/	/	0.7--0.9
		30mm	/	/	/	/	0.3--0.5
		35mm	/	/	/	/	0.2--0.3
		40mm	/	/	/	/	0.1--0.2
		50mm	/	/	/	/	/
		60mm	/	/	/	/	/
		90mm	/	/	/	/	/
		100mm	/	/	/	/	/
Aluminium	N2/Air	1mm	10--13	17--25	25--35	30--35	30--35
		2mm	2--4	6--8	14--16	30--35	30--35
		3mm	1--1.5	3--5	6--8	20--25	20--25
		4mm	0.6--0.9	1.5--2.5	3--5	8--13	13--17
		6mm	/	/	1.2--2.0	4--7	10--12
		8mm	/	/	/	2--3.5	6--8
		10mm	/	/	/	1.5--2	4--6
		12mm	/	/	/	1--1.2	2--3
		16mm	/	/	/	0.2--0.4	/
		20mm	/	/	/	/	0.8--1.2
		25mm	/	/	/	/	0.5--0.7
		30mm	/	/	/	/	0.3--0.4
		35mm	/	/	/	/	0.2--0.3
		40mm	/	/	/	/	0.1--0.2
		45mm	/	/	/	/	/
		50mm	/	/	/	/	/
		60mm	/	/	/	/	/
Brass	N2/Air	1mm	10--13	13--16	20--25	20--25	20--25
		2mm	2--4	5--7	10--13	20--25	20--25
		3mm	1--1.5	2--3	5--7	7--9	18--22
		4mm	/	1--1.5	2--3	8--13	12--14
		6mm	/	/	0.3--0.4	3--5	8--10
		8mm	/	/	/	1.8--2.1	5--7
		10mm	/	/	/	1.3-1.6	4--5
		12mm	/	/	/	0.9--1.1	1.8--2
		14mm	/	/	/	0.5--0.7	1--1.2
		16mm	/	/	/	/	0.4--0.5
		18mm	/	/	/	/	/
		20mm	/	/	/	/	/

* Batch processing is prohibited in the yellow zone.

■ Pipe cutting thickness

Material	Gas	Thickness	3000w	2000w	1000w
			Speed m/min		
Carbon steel	N2/Air	1mm	10--15	10--15	10--15
		2mm	3--5	3--5	2--4
		3mm	2--3	2--3	/
		4mm	1.5-2.5	/	/
		6mm	1-2.2	/	/
	O2	3mm	2.2--2.4	2.2--2.4	1.8--2.1
		4mm	2--2.2	2--2.2	1.5--1.8
		6mm	1.6--2	1.6--2	1--1.5
		8mm	1.6--2	0.8--1	0.6--1
		10mm	1.2-1.6	0.4-0.6	/
		12mm	0.8-1.2	/	/
Stainless steel	N2/Air	1mm	10--15	10--15	10--15
		2mm	3--5	3--5	3--5
		3mm	3--5	2--3	1--1.5
		4mm	2--3	1--1.5	0.5-1.2
		6mm	1--1.5	0.7-1.2	
		8mm	0.5-1	0.4-1	
Aluminium	N2/Air	1mm	7-10	7--10	4--8
		2mm	3--5	4--5	3--5
		3mm	3--5	2--3	/
		4mm	2--3	1--1.5	/
		6mm	1--1.5	/	/
Brass	N2/AIR	1mm	7-12	7-10	4--8
		2mm	3--5	3--5	3--5
		3mm	3--5	2--3	/
		4mm	2--3	/	/

■ Cost Analysis

1.5KW				
Gas		AIR	O2	N2
Power Consumption(¥/h)	Total power (including laser, water chiller, and dust collector fan) KW	23.1	23.1	23.1
	Air Compressor(KW)	11	11	11
	Total Power(KW)	34.1	34.1	34.1
	The average power consumption is calculated based on 60% of the total operating time as the actual cutting time.(¥/h)	20.46	20.46	20.46
Consumable Spare Parts(¥/h)	Protective Lens(¥/h)	1	1	1
	Ceramic Ring(¥/h)	0.25	0.25	0.25
	Nozzle(¥/h))	0.5	0.5	0.5
	Compressor Maintenance (¥/h)	0.25	0	0
	Consumables and Spare Parts (¥/h)	2	1.75	1.75
Flow Rate(¥/h)		0	4	7.5
Total Operating Cost(¥/h)		22.46	26.21	29.71

Applicable Industries



Sample



Strict in Quality Control Flow

Establish a comprehensive precision quality control system covering processing, assembly, testing, and oversight, implementing data-driven and standardized management throughout the entire process to ensure consistent equipment quality and full traceability.

