

# MAX-300HD

## High-definition Plasma Power Source

- Using current ripple control technology, the output current ripple is small, the cutting quality is stable, and the cut is smooth.
- The professionally tuned cutting torch cooling system is equipped with a large-flow, high-lift water pump and a high-power heat dissipation structure, which effectively prolongs the service life of the torch consumables.
- The design of multiple gas input interfaces adapts to multiple gas cutting processes and realizes the best cutting of various metal materials.
- Excellent high-frequency arc starting control technology. The high-frequency box is separated from the power supply structure, which reduces the interference of high frequency to the CNC system as much as possible. The cutting torch cable is short, ensuring a 100% arc starting success rate.
- Complete communication control interface, convenient to expand the function, easier to match a variety of intelligent CNC systems



High frequency arc ignition box

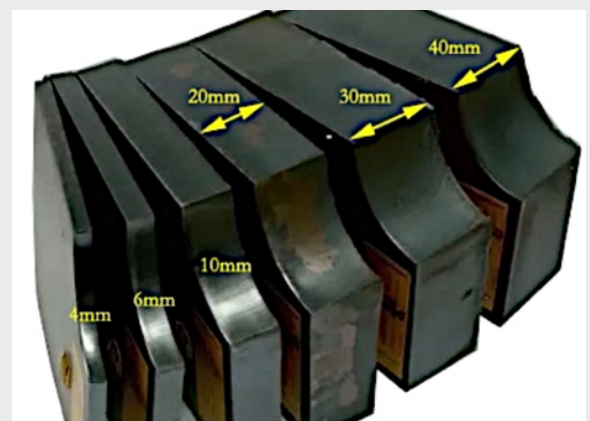


Gas selection console

Cutting mode	HD plasma
Current range	300 amps
Cutting Gas	Air/Nitrogen/Oxygen
<b>Mild Steel Cutting Performance</b>	
Max cutting capacity	60mm
Torch-Model	Thermacut 260
Torch cooling method	Water-cooled
Piercing capacity	40mm
Input voltage	380V 3 phase



Hd torch: Thermacut 260 & Consumables



# Specifications

Power supply specifications	300~380v/50Hz ±10%
input power	72KVA
Rated output current	300A
Rated output voltage	170V
Rated load duration	100%
No-load voltage	380VDC
Current adjustment range	40~300A
Enter the cross-sectional area of copper core wire (mm²)	≥25 square national standard
Fuse (A)	300
Switching capacity	300
Quality perforation thickness (steel)	0.3~35mm
Maximum perforation thickness (steel)	35mm
Use plasma gas	Air/Nitrogen/Oxygen
Working plasma gas pressure	0.4~0.6MPa
Torch cooling method	Water-cooled
Arc ignition method	Non-contact ignition (high frequency ignition)
Insulation class	Class F
Enclosure rating	IP21S
Dimensions mm length*width*height	890*430*875
Packing size mm length*width*height	1000*470*1100
Packing size	580*240*465mm

# Operating data

Material	Plasma gas / shielding gas	Current A	Thickness mm	Cutting speed mm/min
Low-carbon steel	Oxygen/oxygen	30	0.5	5500
			3	1200
			6	600
	Oxygen/air	80	3	6200
			12	1500
			20	500
		130	6	4000
			10	2800
			25	700
		200	10	3800
			20	1700
			32	750
300	12	4200		
	20	2500		
	32	1000		
Stainless steel	F5/Nitrogen	60	3	2800
			4	2000
			5	1800
			6	1500
	H 35/Nitrogen	300	10	2200
			12	1900
			20	1200
			32	1100
aluminum	H 35/Nitrogen	300	12	4400
			20	2100
			32	1100

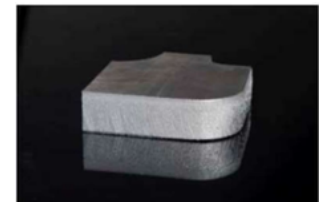
# Selection console operating data

Gas	Quality	Pressure ±10%	Flow
O <sub>2</sub>	Purity ≥99%	0.8MPa/8bar/115psi	70 L/min
	Clean, dry, and oil-free		
N <sub>2</sub>	Purity ≥99%	0.8MPa/8bar/115psi	195 L/min
	Clean, dry, and oil-free		
AIR	Purity ≥99%	0.8MPa/8bar/115psi	190 L/min
H35**	Purity ≥99%	0.8MPa/8bar/115psi	70 L/min
	Clean, dry, and oil-free		
F5***	Purity ≥99%	0.8MPa/8bar/115psi	70 L/min
	Clean, dry, and oil-free		
Ar	Purity ≥99%	0.8MPa/8bar/115psi	70 L/min
	Clean, dry, and oil-free		

Stainless steel



Aluminum



Carbon steel



Low-carbon steel

