



High Performance Cutting

HD Series

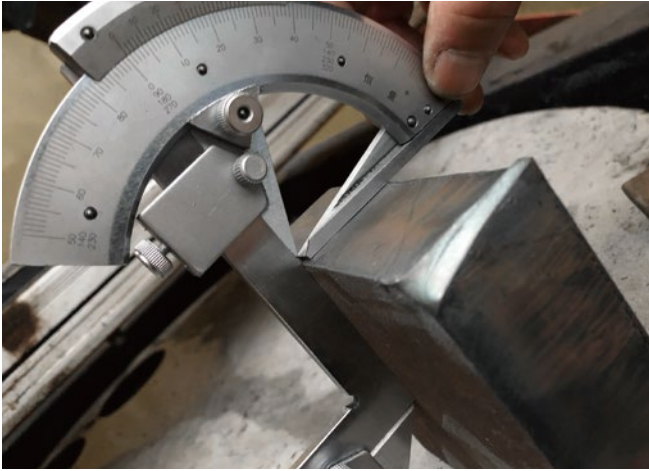
Mechanized Plasma cutting system with Air/Air or Air/WMS.



Heavy Duty | Maximized Productivity | Long Life Consumables

Low Rectangularity Tolerance

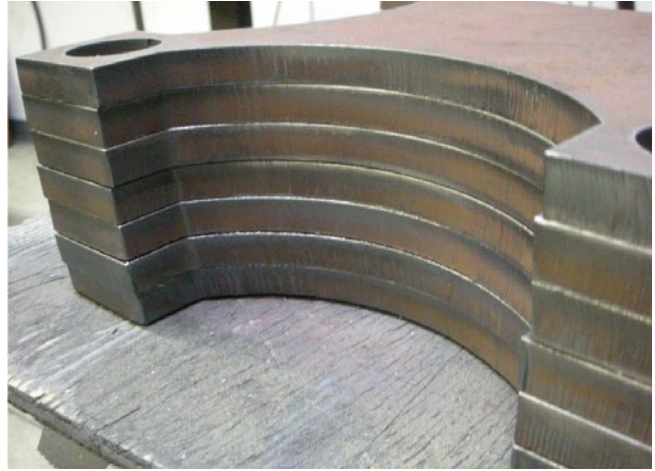
High performance cutting with high speed, make a smooth surface and remain low rectangularity tolerance on parts.



* 35mm M.S Air&Air
* Taper degree less than 0.2 degree

Maximum productivity

Higher arc density for faster speeds, delivery maximum productivity to industry.



* 25mm M.S.

Also Capable For S.S.Cutting

Higher arc density for faster speeds, delivery maximum productivity to industry.



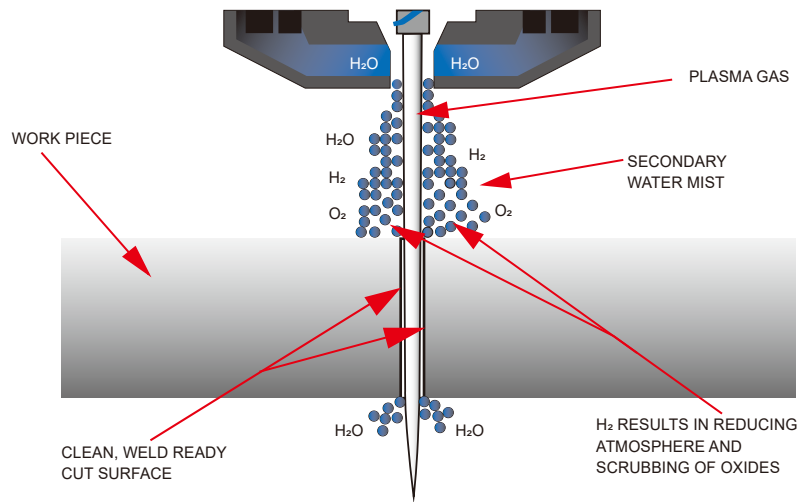
Operating Data{Mild Steel}

TOPWELL HD series plasma system provides faster cutting speed and higher cutting capacity to maximize productivity, even of HD200W, cutting speed of dress free can be up to 1200mm/min for 20mm mild steel.

Material Thickness(mm)	HD200W		HD300W		HD400W	
	Cutting current(A)	Cutting speed(mm/min)	Cutting current(A)	Cutting speed(mm/min)	Cutting current(A)	Cutting speed(mm/min)
12	200	2500				
16	200	1800				
20	200	1200	300	1650		
25	200	1000	300	1200		
30	200	650	300	1100	400	1350
35			300	700	400	1150
40			300	450	400	750
50					400	450

Water Mist Secondary (WMS) Technology

During the cutting process, the water in the shield stream is divided into its principal components—hydrogen and oxygen. The hydrogen creates a reduced atmosphere in the cut zone, isolating it from contaminants at a much lower cost per metre than other cutting processes. Since it uses normal tap water, Water Mist Secondary also reduces production costs and keeps overall energy usage to a minimum. production costs and keeps overall energy usage to a minimum.



*32mm SS



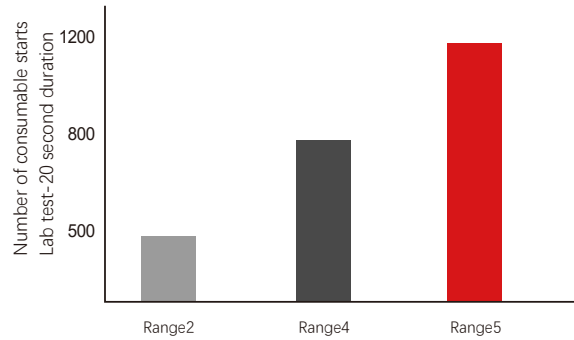
*25mm SS

WMS Benefits

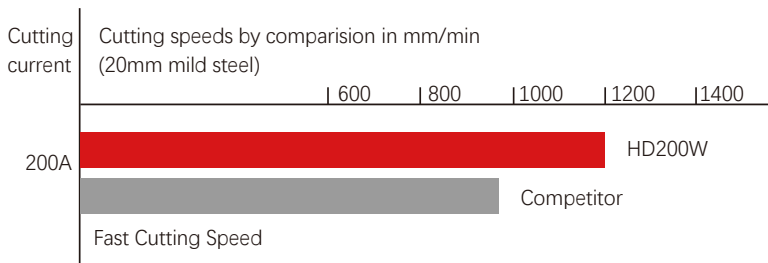
- Excellent non-ferrous metal cut quality.
- Narrow kerf for tighter angles.
- Easy-to-use.
- Fast cuts with Air/Air on Stainless Steel non-ferrous metals.
- Small heat affected zone and smooth surface.
- Wide low cross parameter windows.
- Lower operating cost.
- More accessible and cheap gas supply.

Long-life Consumables

- 12mm mild steel;
- 200A Air/Air;
- 20s duration;
- The number of consumable starts can reach more than 500 times (ISO9013 Range 2).



Fast Cutting Speed



The cutting speed of dross free can reach 1200mm/min for 20mm mild steel.

Lower Operate Cost

- High cut speed to produce more parts per hour.
- Highest kW output in its class.
- Self-designed torch by TOPWELL.
- Outstanding parts life.
- More accessible and cheap gas supply.



HD 200/300/400W



Cutting Capacity

	HD200W	HD300W	HD400W
Mild steel cut capacity	Thickness	Thickness	Thickness
Dross free*	25mm	32mm	38mm
Production pierce	30mm	38mm	45mm
Maximum cutting capacity	60mm	80mm	100mm

* Feature and material type can influence dross free performance.

Specifications

System	HD200W	HD300W	HD400W
Input Voltages	380VAC, 3PH, 50Hz/60Hz 400VAC, 3PH, 50Hz/60Hz	380VAC, 3PH, 50Hz/60Hz 400VAC, 3PH, 50Hz/60Hz	380VAC, 3PH, 50Hz/60Hz 400VAC, 3PH, 50Hz/60Hz
Max. Load Power Capacity	50KVA	75KVA	85KVA
Rated output voltage	50~200VDC	50~200VDC	50~200VDC
Max output current	200A	300A	400A
Open circuit voltage (OCV)	430VDC	430VDC	430VDC
Duty cycle rating	100% @ 200A, at 40°C (104°F)	100% @ 300A, at 40°C (104°F)	100% @ 400A, at 40°C (104°F)
Operating temperature	-10 °C~40°C	-10 °C~40°C	-10 °C~40°C
Torch	TP300, 1.5m	TP300, 1.5m	TP300, 1.5m
Dimensions	380*670*850mm	450*800*950mm	450*800*950mm
Weight	174KG	240KG	256KG
Certifications	CE, ROHS	CE, ROHS	CE, ROHS
Gas supply	Plasma gas Shield gas	Air Air、 Water-spray	Air Air、 Water-spray
Supply gas pressure	6.2±0.7Bar	6.2±0.7Bar	6.2±0.7Bar



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