



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

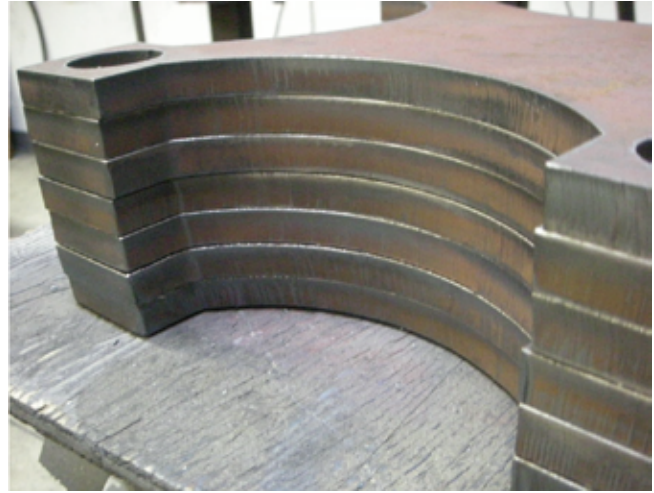
High performance cutting with high speed, make a smooth surface and remain low rectangularity tolerance on parts.



\*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.



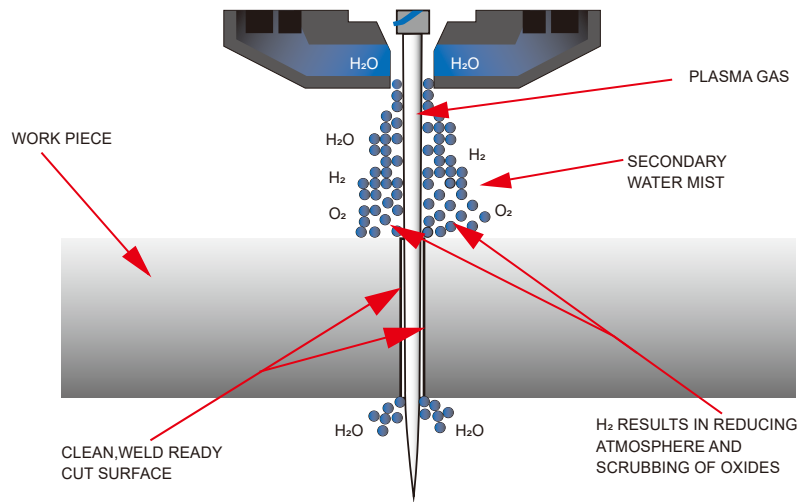
## Operating Data{Mild Steel}

TOPWELL HD series plasma system provides faster cutting speed to maximize productivity, cutting speed of dross free can reach 1000mm/min for 25mm 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	1600		
25	200	960	300	1100		
30	200	680	300	950	400	1200
35			300	750	400	900
40			300	450	400	750
50					400	500

## 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



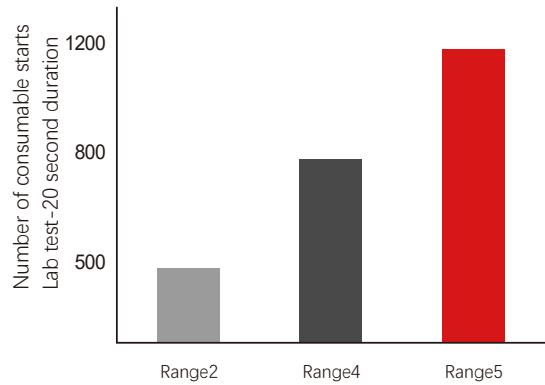
\*25mm SS

## WMS Benefits

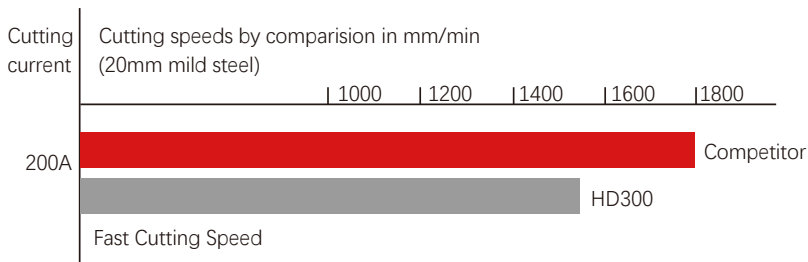
- Excellent non-ferrous metal cut quality.
- Narrow kerf for tighter angles.
- Easy-to-use.
- Fast cuts with Air/Air on Stainless Steel non-ferrous metals.
- Small heat affected zone and smooth surface.
- Wide low cross parameter windows.
- Lower operating cost.
- More accessible and cheap gas supply.

## 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 1600mm/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 200/300/400 W

## 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	960*420*1100	1300*800*580	1300*800*580
Weight	165KG	256KG	276KG
Certifications	CE,ROHS	CE,ROHS	CE,ROHS
Gas supply	Air	Air	Air
Plasma gas	Air、Water-spray	Air、Water-spray	Air、Water-spray
Shield gas			
Supply gas pressure	6.2±0.7Bar	6.2±0.7Bar	6.2±0.7Bar



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