



HIGH PERFORMANCE CUTTING



HD series

High-definition, maximized productivity, long life consumables

HD200/200W/200Pro

HD300/300W/400W

- The HD plasma cutting system achieves exceptional consumable life, impressive cutting speed and ultimate cutting quality.
- Designed for heavy duty, high capacity CNC plasma cutting and gouging, The HD series delivers reliable performance across a wide range of industrial application.



Specifications

System	HD200/200W/200Pro	HD300/300W	HD400W
Input Voltages	380VAC, 3PH, 50Hz/60Hz 400VAC, 3PH, 50Hz/60Hz 220VAC, 3PH, 50Hz/60Hz	380VAC, 3PH, 50Hz/60Hz 400VAC, 3PH, 50Hz/60Hz	380VAC, 3PH, 50Hz/60Hz 400VAC, 3PH, 50Hz/60Hz
Max. Load Power Capacity	40KVA	75KVA	85KVA
Rated output voltage	50~200VDC	50~200VDC	50~200VDC
Max output current	200A	300A	340A
Open circuit voltage (OCV)	430VDC	430VDC	430VDC
Duty cycle rating	380V/400V: 100% @ 200A, at 40°C (104°F) 220V: 100% @ 200A, at 40°C (104°F)	100% @ 300A, at 40°C (104°F)	100% @ 340A, 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	256KG
Certifications	CE,ROHS	CE,ROHS	CE,ROHS
Gas supply			
Plasma gas	Air, O ₂ , N ₂	Air, O ₂ , N ₂	Air, O ₂ , N ₂
Shield gas	Air, N ₂	Air, N ₂	Air, N ₂
Supply gas pressure	6.2±0.7Bar	6.2±0.7Bar	6.2±0.7Bar

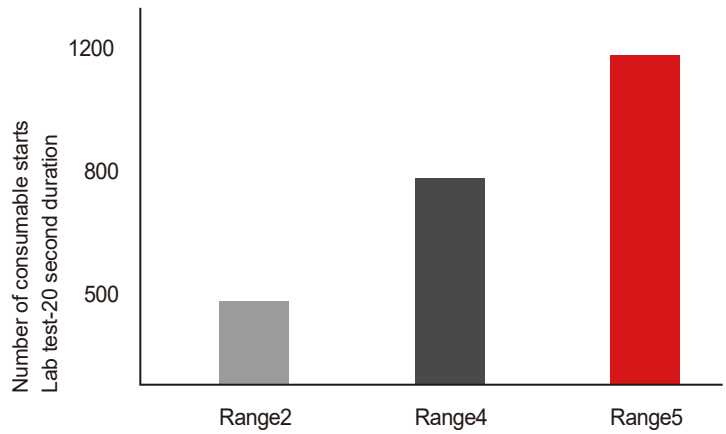
Excellent Cutting Performance

- TOPWELL HD series plasma system provides faster cutting speed to maximize productivity.
- The cutting speed of dross free can reach 1000mm/min for 25mm mild steel.
- With water spray cutting process, the stainless steel and aluminum cutting will be less warping and produce a small heat-affected zone to minimize high-cost secondary operations.
- Designed with 100% duty cycle for the most demanding production environments.
- Designed and tested as the TOPWELL HD series product for superior reliability in the most demanding cutting environments.



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).



Simple Operation:

- User-friendly control system, simple and intuitive operation interface;
- Easy to install, easy to operate, easy to maximize performance;
- Digital control, and advanced diagnostics simplify troubleshooting and service;
- TOPWELL HD series plasma systems deliver the industry's best precision cutting on carbon steel, stainless steel and aluminum;

Consumables



Cutting capacity and operating data

		HD200	HD200W	HD200Pro	HD300	HD300W	HD400W
Capacity carbon steel	Dross free*(Air/Air)	25	25	25	35	35	40
	CNC pierce	32	32	32	40	40	45
	Severance	75	75	75	80	80	80
Stainless steel	CNC pierce	/	25	25	/	32	40
	Severance	/	64	64	/	75	75
Aluminum	CNC pierce	/	25	25	/	32	40
	Severance	/	75	75	/	80	80
Speed Carbon steel	Book specifications at highest output current	12mm(1/2") 3500mm/min (138ipm)			12mm(1/2") 4000mm/min (157ipm)		12mm(1/2") 4500mm/min (177ipm)
Cut angle	ISO9013 range**	2					
Weldability	Ready to weld						
Process gases by material (plasma/shield)	Carbon Steel	Air/Air	Air/Air	O ₂ /Air	Air/Air	Air/Air	Air/Air
	Stainless Steel	/	Air/Air +water spray	N ₂ /N ₂	N ₂ /N ₂	Air/Air +water spray	Air/Air +water spray
	Aluminum	/	Air/Air +water spray	N ₂ /N ₂	N ₂ /N ₂	Air/Air +water spray	Air/Air +water spray
Process amps (cutting)	Not all processes available for all materials	30~200			30~300		30~340

*Feature and material type can influence dross free performance.

**ISO 9013 is a standard that defines cut quality of thermally cut parts. The lower the range (range 1 is the lowest), the smaller the angle on the cut face. Cut angle in range 4 is better than in range 5.



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