

DC Inverter Air Plasma Cutting Machine



YCUT-161



YCUT-201

Accessories



Features

- ◆ Mechanized plasma cutting type design, it's specially suitable for CNC cutting use.
- ◆ These Plasma Cutters can be both used as Hand-held Cutting and CNC Machine Cutting.
- ◆ Easily cutting of all electrically conductive materials with finishing.
- ◆ High strength structural steel cutting with low heat input.
- ◆ High cutting speed(10 times more than oxyfuel).
- ◆ Any processing of high quality blank for medium and thick sheet metals.
- ◆ Wide range of material such as Mild Steel, Stainless Steel, and Aluminium.
- ◆ Smooth edge, surface.
- ◆ These machines have a low kerf(the width of the material removed by the cutting process).
- ◆ Not affected by the reflective properties of a material with polished or highly reflective materials.

Sr. No.	Parameter	GREAT-YUVA	Other Make
1	Surface quality of Cut	 Extremely clean surface	 Rough surface
2	Width of Cut	 Low width of cut	 High width of cut
3	Slag sticking	 Low slag sticking	 High slag sticking

Main Technical Parameters :

	YCUT-161	YCUT-201
Input Voltage(V)	415 ± 10%,3-ph	415 ± 10%,3-ph
Frequency(Hz)	50/60	50/60
Rated input current(A)@60% duty cycle	55	77
Rated Input capacity(KVA)	37	51
Rated Output current(A)	160	200
Input current(A)@100% duty cycle	43	60
Input capacity(KVA)@100% duty cycle	30	41
Output current(A)@100% duty cycle	124	155
No-load voltage(V)	320	320
Plasma gas	Compressed air	Compressed air
Air pressure required(MPa)	0.3-0.6	0.3-0.6
Case protect class	IP23	IP23
Insulation class	H	H
Power factor	>0.93	>0.93
Efficiency(%)	85	85
Arc starting	Non-contact	Non-contact
Torch cooling mode	Water	Water
Max Quality Cut Thickness(Mild Steel),mm	42	45
Sever Cut Thickness(Mild Steel),mm	50	60
Max piercing thickness(Mild Steel),mm	26	28
Max CNC Cutting thickness(Mild Steel),mm	21	25
Dimension(LWH),mm	720x370x666	820x395x960
Weight(Kg)	55	71.6

ON SITE
WARRANTY

Cutting capability

■YCUT-161

Material	Thickness of plate (mm)	0.1	10	20	30	40	45	50
Mild steel		2.5	1.8	0.7	0.55	0.1		
Stainless steel		2.5	1.8	0.6	0.4	0.1		
Aluminium		1.2	0.8	0.1				
Bronze		0.6	0.1					
Copper		0.5	0.1					

* Note : The figures show the approximate cutting speed (m/min) at 160A.

■YCUT-201

Material	Thickness of plate (mm)	0.1	10	20	30	40	50	60
Mild steel		8.6	3.5	2.5	1.2	0.7	0.1	
Stainless steel		5.8	3.0	2.0	1.5	0.6	0.1	
Aluminium		4.0	1.6	1.0	0.6	0.1		
Bronze		1.4	0.25	0.15	0.1			
Copper		1.4	0.25	0.15	0.1			

* Note : The figures show the approximate cutting speed (m/min) at 200A.