

# CUT-105A

100% duty cycle industry-level  
105amp plasma cutter



## Industry-leading cutting quality

- Real-time communication with the CNC system, and more precise control of the cutting quality through the data base.
- Increase the current at the moment of piercing and enhance the piercing ability.
- Intelligently control the corner cutting current to improve the quality of corner cutting and avoid over-burning.

## We provide a five-year warranty!

- We provide every Misson customer with a five-year warranty for the core components of the power supply. The confidence in quality comes from the dual-module IGBT and excellent heat dissipation system.
- Tower air duct and soft switch technology minimize the power consumption of each cutting.
- The electrical components used in the production process are all from large factories, and the coils are made by hand.

## Advanced process control and delivery

- The selection console manages the selection and mixing the plasma gases according to the thickness and material of the cutting plate, and enhance the cutting ability of carbon steel, stainless steel and aluminum. And cutting with oxygen or nitrogen will be better than cutting with air.

## Non-HF torch optional

- Non-High Frequency Arc Ignition Technology, Matched With Low
- Frequency Cutting Torch, Perfectly Forms The Anti-Power Interference, The Arc Starting Is More Concentrated.

Current range	105 amps
<b>Mild Steel Cutting Performance</b>	
Recommended cutting capacity	16mm
Torch-Model	BW-P80m
Torch cooling method	air-cooled
Consumables	P80
Piercing capacity (machine cutter)	16mm
Input voltage	380V 3 phase

Carbon steel cutting ability	105A	105AL
Recommended	0.3-16mm	0.3-16mm
Pierce	0.3-16mm	16mm
Severance	18mm	18mm
<b>Stainless steel cutting ability</b>		
Recommended	0.3-12mm	0.3-16mm
Pierce	0.3-16mm	16mm
Severance	18mm	18mm
<b>Aluminum cutting ability</b>		
Recommended	0.3-12mm	12.7mm
Pierce	0.3-12mm	12.7mm
Severance	18mm	19mm

# Specifications

Standards of power supply	300~380v/3 phase 220V /50Hz±10%
Input power	18.4KVA
Rated output current	105A
Rated output voltage	123V
Rated load duration	100%
No-load voltage	300VDC
Current adjustment range	30~105A
Enter the cross-sectional area of copper core wire (mm <sup>2</sup> )	≥6 square national standard
Fuse (A)	105
Switching capacity	105
Quality perforation thickness (steel)	0.3~16mm
Maximum perforation thickness (steel)	16mm
Use plasma gas	The compressed air
Working plasma gas pressure	0.4~0.6MPa
Torch cooling method	Air-cooled
Arc ignition method	Non-contact ignition (high-frequency arc ignition)
Insulation class	Class F
Enclosure rating	IP21S
Dimensions mm length*width*height	680*340*585

## Torch consumable parts

Sheet thickness(mm)	1--5	5--15	15--20	25--40
Nozzle aperture(mm)	1.1	1.3	1.5	1.7
Corresponding current(A)	40	60	80	100
Cutting speed(mm/min)	2000-3500	800-1600	650-1500	450-1300
Arc voltage(V)	100-115	110-130	120-150	130-180

- According to the thickness of the plate, set the current, arc voltage, and pierce height (generally not less than 5mm) piercing time. Set a lower speed first, and gradually increase the speed during the cutting process to achieve the desired cutting effect.

