

WP5

Thyristor control AC/DC TIG Welding Machine

Multiple functions for multiple purposes



AC TIG

AC Manual

DC TIG

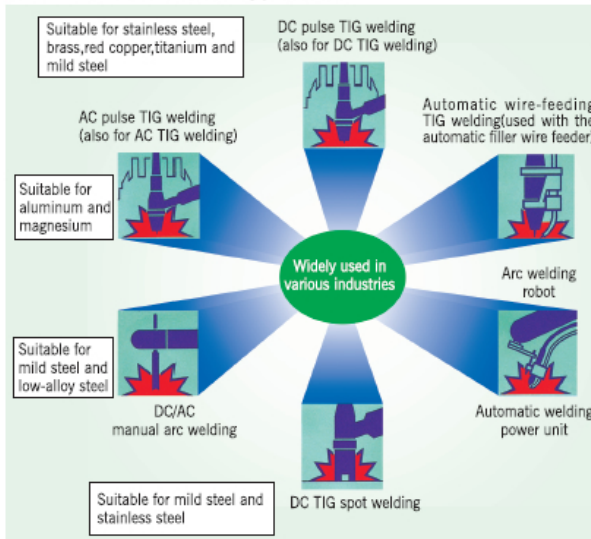
DC Manual

Superior cost-performance for AC TIG welding

300WP5

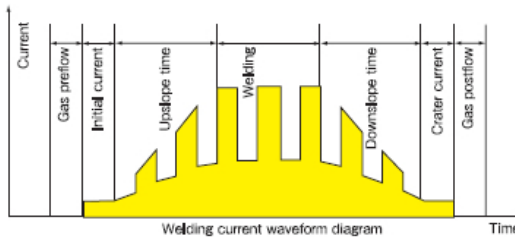
WP5 is designed to provide 9 functions

- DC pulse TIG welding ●DC TIG welding ●DC manual arc welding
- AC pulse TIG welding ●AC TIG welding ●AC manual arc welding
- DC TIG spot welding ●Automatic filler wire TIG welding
- Robotic and automatic welding power units



Pulse waveform control

The WP5 welder has the waveform control function that controls the welding current to change at intervals as shown below. A chain of effective controls over the welding process covering gas preflow, initial current adjustment, DC current, up slope/down slope, and crater so as to attain the excellent welding quality from arc starting to ending.



AC square wave

Controlled with the advanced swing reactor, the new WP5 welding can output stable AC square wave, effectively improving the arc stability and thereby meeting the requirement for high quality welding.

A wide range of cleaning width adjustment

The WP5 welding can freely adjust the cleaning width depending on the material and shape of welding seam, and effectively minimize wastage of the tungsten electrode when welding with high current to achieve the high quality welding of aluminum material.



Specifications

Model No.		YC-300WP5
Control mode	-	Thyristor
Input power frequency	Hz	50/60
Rated input capacity	kVA/kW	20/13,3
Rated output current	A	315
Rated output voltage	V	22,6
Rated duty cycle	%	35
No-load voltage (DC)	V	70
No-load voltage (AC)	V	76
DC output current range	TIG	A 5-315
	Manual arc welding	A 5-315
DC output voltage range	TIG	V 10,2-22,6
	Manual arc welding	V 20,2-32,6
AC output current range	TIG	A 20-315
	Manual arc welding	A 20-315
AC output voltage range	TIG	V 10,8-22,6
	Manual arc welding	V 20,8-32,6
Initial current	DC TIG	A 5-315
Pulse current	AC TIG	A 20-315
Crater current	AC TIG	A 20-315
Upslope time	s	0 or 0.1-6
Downslope time	s	0 or 0.2-10
Gas preflow time	s	0.3
Gas postflow time	s	5-25
Arc spot welding time	s	0,5-5
Method for cleaning	-	AC TIG
Cleaning width	%	37-50
Pulse frequency	Hz	0.5-10
Control mode for crater current	-	Three control modes for crater, i.e. "YES", "NO" and "REPEAT".
Arc starting mode	-	Three control modes for crater, i.e. "YES", "NO" and "REPEAT".
Enclosure protection class	-	IP21S
Insulation class	-	H
Cooling mode	-	Forced air cooling
Dimensions (W x D x H)	mm	465 x 617 x 846
Mass	kg	193
Remote controller	-	YC-304URW (with the cable length of 4m)

Multiple functions and perfect quality can meet various demands from customers.

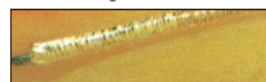
It works well in welding thin plate.



The even weld fusion depth ensures high reliability.

Filler rod feeding is easy to ensure high-efficiency welding at high speed.

Excellent weld quality for different board thicknesses, different metals and butt welding.



Butt welding between pipe and thick board is possible with high quality.

The appearance at the arc starting and ending is perfect having reliable quality.

The substantial pulse control function effectively improves the weld quality.

Customer-oriented considerate design for the abundant functions

Various connection terminals for different welding modes. (convenient for connection to robotic and automatic welders.)

Abnormal interruption signal. In case the short circuit wire is removed, the circuit for welding gun is cut off immediately.

Current sensing signal. It can be used for controlling robotic welders, automatic welders or automatic TIG wire feeders. Synchronous pulse signals. It is used for filler wire pulse feeding control.

Sensing circuit for cooling water flow rate.

With the energy saving circuit

Multiple improved designs

The new enclosure design meets the IP21S requirement.

The thermal relay protection function can prevent malfunction due to overheating.

The new reactor effectively reduces the electromagnetic noise in operation.