

Panasonic
ideas for life

High performance with
multi-process capability
for AC/DC TIG welding

DC
Manual

AC
Manual

DC
TIG

AC
TIG



Panasonic Corporation

Panasonic Corporation is one of the largest electronic product manufacturers in the world comprising of over 600 Companies and a turnover of over USD 100 billion. It manufactures and markets a wide range of products under the Panasonic brand to enhance and enrich lifestyles around the world.

Panasonic Welding Systems

As a leader in the welding industry, Panasonic Welding Systems Co. Ltd., has been developing products to help realise rationalisation, energy saving and quality optimisation in welding operations. In the joining and processing field Panasonic Welding Systems Co. Ltd., offers total solutions in equipment, techniques, and software to its customers around the globe by leveraging its digital technology, based on the welding and laser technology accumulated over the years.

Environment-friendly

RoHS

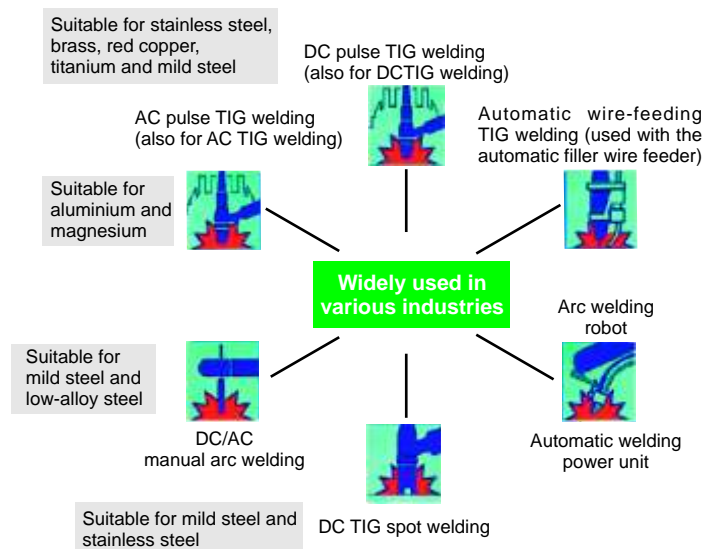
Restriction of Hazardous Substances

- All Panasonic welding equipment are RoHS Compliant.
- We fulfill responsibilities of protecting global environment through utilizing green materials and manufacturing green products.
- Panasonic Welding Systems' Promise: Through utilizing earth-friendly equipment and purchasing environment-friendly materials, we guarantee that Panasonic welding products do not contain hazardous substances such as lead, mercury, cadmium, hexavalent chromium, PBBs and PBDEs, flame retardants etc. realizing "green industrial products".



300WP5

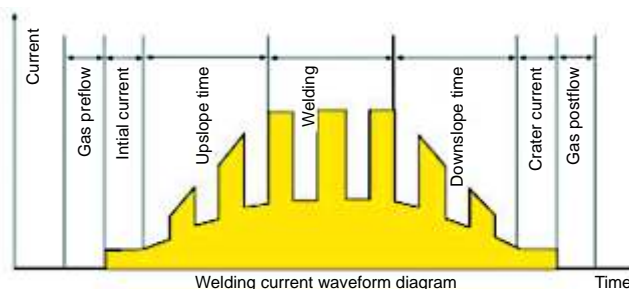
The World's Most Preferred and Reliable
Thyristor controlled AC/DC Pulse TIG Welding Machine



Key features of WP5

- 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
WP5 offers a waveform control function that enables change of welding current at intervals shown below.

A chain of effective controls over the welding process covering gas pre-flow, initial current adjustment, DC current, up slope/down slope, and crater to ensure excellent weld quality at every stage from weld start to finish.





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- Stable AC square wave
Controlled with advanced swing reactor, the new WP5 offers stable AC square wave output, effectively improving arc stability and ensuring high quality welding.

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



Multiple functions to meet various demands

- Superior performance even when welding thin plates.

- Consistently high weld quality across different board thickness, various metals and butt welding.

- Uniform weld fusion depth ensures high reliability.
- Facilitates easy filler rod feeding for high-efficiency welding at high speed.
- Enables high quality butt welding between pipes and thick boards.
- Perfect arc start and stop for complete reliability.
- Pulse control function significantly improves weld quality.

Designed for convenience

- Different connection terminals for various welding modes offer highly convenient connectivity to robotic and automatic welders.
- Abnormal interruption signal ensures that if the short circuit wire is removed, the welding gun circuit is instantly cut off.
- Current sensing signal can be used for controlling robotic welders, automatic welders or automatic TIG wire feeders.
- Synchronous pulse signals are used for filler wire pulse feeding control.
- Sensing circuit for cooling water flow rate.
- Features energy-saving circuit.

Multiple improved designs

- New enclosure design meets the IP21S requirement.
- Thermal relay protection prevents malfunction due to overheating.
- New reactor effectively reduces electromagnetic noise during operation.

Technical 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	TIG	A	5~315
	Manual arc welding	A	5~315
DC	TIG	V	10.2~22.6
	Manual arc welding	V	20.2~32.6
AC	TIG	A	20~315
	Manual arc welding	A	20~315
AC	TIG	V	10.8~22.6
	Manual arc welding	V	20.8~32.6
Initial current	DC TIG	A	5~315
	AC TIG	A	20~315
Pulse current			
Crater current			
Up slope time	S	0 or 0.1-6	
Down slope 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 - "YES", "NO" and "REPEAT".	
Arc starting mode	-	Three Control modes for crater - "YES", "NO" and "REPEAT".	
Enclosure protection	-	IP21S	
Insulation class	-	H	
Cooling mode	-	Forced air cooling	
Dimension (W X D X H)	mm	465 x 617 x 846	
Mass	kg	193	
Remote controller	-	YC-304URW (with the cable length of 4m)	

Ordering Information	Model
Power source	YC-300WP5HJE
TIG torch (Air cooled)	YC-30TS2
TIG torch (Water cooled)	YC-30TSW2

Panasonic reserves the right to alter the specifications without notice.

Panasonic

Range of Welding Equipment: MMAW | MIG/MAG | TIG | Plasma Cutting | Welding Accessories | Welding Robots
Panasonic is setting up its own state-of-the-art welding equipment manufacturing facility near Gurgaon, Haryana, India.

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