

Panasonic

Welding Machine
Robot
Laser Welding System

Thyristor Controlled DC TIG Welding Machine

300TSP

Widely used for many fields such as petrochemical industry, pressure vessels, electric power construction and stainless steel products.

■ DC pulse TIG/DC TIG welding

- The ratio for successful arc starting is very high even at low current.
- The arc is gentle and stable with perfect appearance of the weld even in welding at high speed.
- TSP realizes stable output even using the torch with 20m cable.
- Advantages of the Panasonic's DC pulse TIG welding.

■ DC manual arc welding

- Considerate function design oriented customers' demands

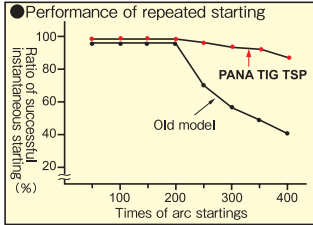


Panasonic pursues *Only one* in welding

DC pulse TIG/DC TIG welding

- The ratio for successful arc starting is very high even at low current.

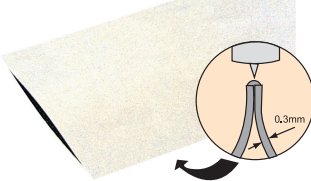
Due to the Panasonic's unique IC and thyristor technology for current control, the ratio of successful instantaneous arc startings is very high from low to high current.



- The arc is gentle and stable with perfect appearance of the weld even in welding at high speed.

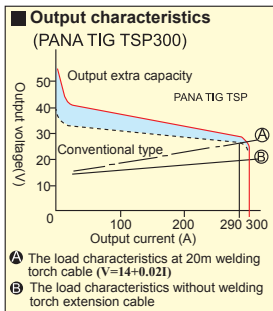
As the ripple factor of output current is reduced, the stable current can be kept. Therefore, the weld seam is even in welding at high speed.

Example of high-speed welding
Butt weld of 0.3mm stainless steel (Welding speed: 3.5m/min)



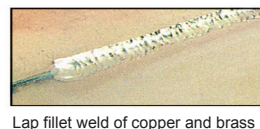
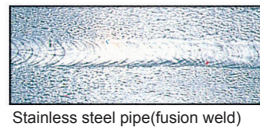
- TSP realizes stable output even using the torch with 20m cable.

The unique constant current control is used so that the stable welding current can be kept even when the external factors such as input voltage, ambient temperature and arc length change.



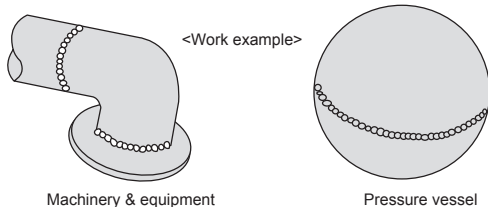
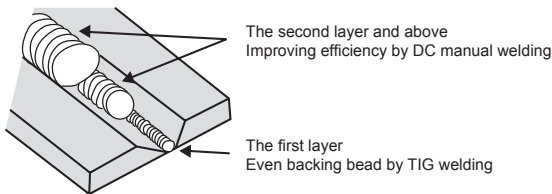
- Advantages of the Panasonic's DC pulse TIG welding.

- The weld is tidy and looks well.
- The fusion weld is even and tidy.
- The weld quality is excellent without defects due to even fusion depth.
- It works better for all-position welding boards with different thicknesses.



DC manual arc welding

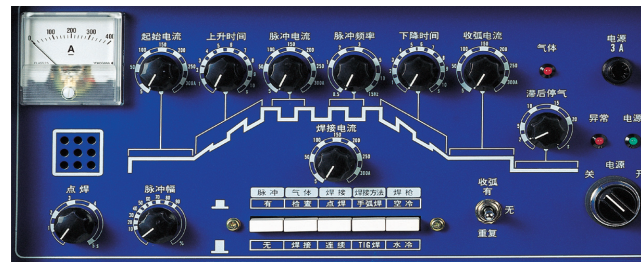
- High quality welding can be achieved in welding of mild steel, stainless steel, high strength steel, Cr-Mo steel, etc.



Specifications

| Model | | YC-300TSP | |
|---------------------------------|--------------------|-----------------------------|-----------|
| Control mode | - | Thyristor | |
| Input power frequency | Hz | 50/60 | |
| Rated input capacity | kVA/kW | 16.5/11.5 | |
| Rated output current | A | 315 | |
| Rated output voltage | V | 22.6 | |
| Rated duty cycle | % | 60 | |
| Rated output voltage at no load | V | 57 | |
| Output current range | TIG | A | 5~315 |
| | Manual arc welding | A | 5~315 |
| Output voltage range | TIG | V | 10.2~22.6 |
| | Manual arc welding | V | 20.2~32.6 |
| Crater current | A | 5~315 | |
| Up slope time | S | 0.2~10 | |
| Down slope time | S | 0.2~10 | |
| Gas preflow time | S | 0.3 | |
| Gas postflow time | S | 2~23 | |
| Arc spot welding time | S | 0.5~5 | |
| Pulse frequency | Hz | 0.5~15 | |
| Pulse width | % | 15~85 | |
| Control mode for crater current | - | Crater ON / OFF / REPEAT | |
| Arc starting mode | - | High-frequency arc starting | |
| Enclosure protection class | - | IP21S | |
| Insulation class | - | H | |
| Cooling mode | - | Forced air cooling | |
| Dimensions(W×D×H) | mm | 470×560×845 | |
| Mass | kg | 136 | |

Considerate function design oriented customers' demands



(1) Initial current control

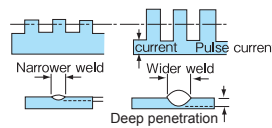
For preventing from burning through when welding thin boards and also for checking the arc starting point.

(2) Up slope time control

For improving the weld quality at the starting end by adjusting this time.

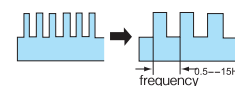
(3) Pulse current control

For selecting the pulse current freely.



(4) Pulse frequency control

Making it possible to change the number of ripples and width of weld.



(5) Welding current control

A wide range of weldable thicknesses with the current range of 5A-315A.

(6) Down slope time control

For achieving perfect smooth ending weld by adjusting the welding current down slope time.

(7) Crater current control

For preventing from arc craters and weldcracks.

(8) Gas postflow time control

For preventing from oxidation of the crater end of weld.

(9) Three modes of crater current control for different purposes

(Ending controls "YES", "NO", and "REPEAT")

(10) Arc spot welding

The accessories such as nozzles and connectors are optional.

(11) Pulse width

Adjustable pulse width in the range of 15-85%.

Safety precautions

- Before attempting to use any welding product, always read the manual to ensure correct use.

Panasonic

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