

# AT3

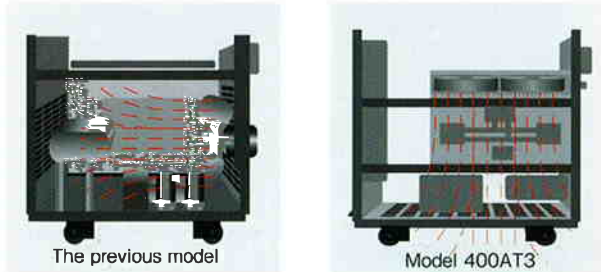
IGBT control DC Arc Welding Machines

## The high-reliable multi-functional model adaptable to rigorous environments!

### ■ The high-reliable DC arc welding power unit with the protection grade IP23!

#### ■ Excellent dustproof and weatherproof duct design

The enclosure protection is up to IP23. The fan is improved to the design of positioning at the top and blowing downwards from the design of positioning at the rear and blowing forwards, which effectively minimizes ingress of dust and rain drops and improves the service life of the fan.



#### ■ Excellent 3-layer and 4-chamber design

The main power components, P-board, switch, potentiometer and so on are built in 2 hermetic chambers, which effectively prevents from ingress of dust. The intake port is positioned at the top layer, which effectively prevents from ingress of dust. The special heat-emission channel is provided to highly improve the efficiency of heat emission.

#### ■ The high-temperature resistant design

This model can work at the ambient temperature as high as 50°C and therefore is very adaptable to the high-temperature environment in field.

### ■ The elaborate model that can meet the demand for working and provides multiple functions!

All of the models in Series AT3 have the functions of manual welding and simple TIG. In addition, the special model for using the cellulose welding rod is available.



The output terminals for the model using the cellulose welding rod



The combined power unit comprised of multiple power units can be used in many industries such as ship-building and petrochemical industries.

#### ■ The thrust current is adjustable freely up to 220A.

In case the welding rod is stuck in welding, adjust the thrust current. As the arc transition form depends on the types of welding rods, adjusting up the output current by an appropriate value at the moment of short circuit caused by molten drops can effectively improve the welding performance.

#### ■ The argon-arc welding with touch starting uses the unique control technology to automatically cause arc starting at low current to avoid burning of the tungsten electrode.



Manual welding/simple TIG/  
cellulose welding rod  
YD-400AT3HGH  
YD-400AT3HJE

The castors are provided under the bottom.



The enclosure is designed to allow multi-layer stacking.

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### ■ Rated specifications

Model	YD-400AT3	
Control mode	—	IGBT inversion mode
Rated input voltage, number of phases	—	AC380V, 3-phase
Input power frequency	Hz	50/60
Rated input capacity	kVA/kW	17.6/16.7
Rated output current	A	400
Rated output voltage	V	36(STICK)/26(SIMPLE TIG)
Rated duty cycles	%	60
Rated output voltage at no load	V	71
Output current range	A	20~410
Thrust current	A	Max. 220
Starting current	A	Max. 150
Enclosure protection grade	—	IP23
Insulation class	—	Grade H(Grade B for the main transformer)
Cooling mode	—	Forced air cooling
Starting mode for TIG	—	Touch starting
Overall dimensions (W × D × H)	mm	327×560×602
Mass	kg	50

- It is designed to provide the function of protection from electric shock as the means for safe working high above the ground and in damp environments.
- The extended cable having the length up to 100 m (300A, 60mm<sup>2</sup>) makes it possible to work high above the ground or at a distance.
- It can be used for welding by using various acidic, basic, stainless-steel and low-hydrogen welding rods.
- The allowable fluctuation of input voltage is as high as ±20%.
- The wired remote control is provided at user's option.



The wired remote controller  
Model: TSM93067  
Function: Remotely adjusting the welding current.  
The cable with a custom length is available.

### ■ Specification for the welder models in Series 400AT3

No.	Model	Function				
		Plain welding rod	Simple TIG	Cellulose welding rod	With the gas line	Optional wired remote controller TSM93067
1	YD-400AT3HGH	●	●	●	×	●
2	YD-400AT3HJE	●	●	●	×	●

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