

Complete Solutions For Welding & Cutting

WE

DELIVER

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INVESTING IN RESEARCH AND DEVELOPMENT FOR INNOVATIONS

CUSTOMER

SMART

STABLE

QUALITY

BY FOCUSING ON THE DEVELOPMENT, SKILLS, MORALE AND WELLBEING OF OUR PEOPLE, AOTAI DRIVES THE GROWTH, PROFITABILITY, COMPETITIVENESS AND LONG-TERM SUCCESS OF OUR CLIENTS.

QUICK RESPONSE
ON-TIME DELIVERY
PROFESSIONAL SOLUTIONS...

SHOWING APPRECIATION FOR EMPLOYEES

AOTAI SERVICE TEAM
IS ALWAYS HERE FOR YOU

Hot wire TIG ATIG400P (HW)



Hot Wire TIG ATIG400P (HW)



Wire feeder control panel

Power sourse control panel

Features and Benefits

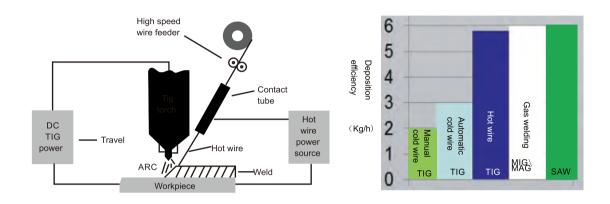
- Hot wire TIG automatic wire feeding efficiency is over twice of manual wire feeding, and greatly reduces labor intensity.
- Suitable for long seam welding.
- For short seam welding and spot welding, automatic wire feeding mode can be turned off, and manual wire feeding mode can be adopted.
- Control with one key. Torch switch can control welding power source, wire feeder, and hot wire power source.
- Can work with automation system.

HW TIG comparison with other welding processes

- Less heat input than SAW
- Higher welding quality than MIG
- Higher efficiency than cold wire TIG

Process introduction

Hot wire TIG is designed based on cold wire TIG by adding one hot wire power source to pre-heat wire (300-400 $^{\circ}$). Without increasing base metal heat input, by increasing wire filling rate, the welding speed is almost close to MIG.



Technical Specification

Welding Power Source		
Model	ATIG400P(HW)	
Rated input voltage	3 phase 380V±10%/50Hz	
Rated input capacity (KVA)	18	
Rated input current (A)	28	
Rated duty cycle (%)	60	
Output current range (A)	5~400A	
OCV (V)	73	
Tungsten electrode diameter (mm)	1~6	
Weight (Kg/lb)	55/121.28	
Dimension (mm)	660*330*580	
Insulation class	IP23	

Hot Wire Power Source		
Model	HW-200	
Rated input voltage	3 phase 380V±10%/50Hz	
Rated input capacity (KVA)	2.6	
Rated input current (A)	4	
Rated duty cycle (%)	35	
Output current range (A)	5~200A	
OCV (V)	16	
Weight(Kg /lb)	21/46.31	
Dimension (mm)	690*340*290	
Insulation class	Н	

Water Cooler		Wire Feeder	
Model	SLJ-400WBi	Model	TS-07G
Power supply voltage	1phase 380V/50Hz	Power supply voltage	DC24V
Motor power (W)	260	Motor power(W)	260
Duty cycle (%)	100	Wire diameter(mm)	0.8~1.6
Max. pressure (MPa)	0.3	Wire feeding speed(m/min)	0.3~7.0
Temperature	-35~+40	Dimension (mm)	650*280*390
		Weight(Kg /lb)	15/33.08

Hot Wire TIG ATIG400P-HW

Application industry

Hot wire TIG welding has been used for welding of important work pieces of carbon steel, low alloy steel, high alloy steel, stainless steel and nickel base alloys in high-end industrial sectors such as boilers, pressure vessels, high pressure pipelines, marine oil production equipment, petrochemical plants, aerospace engineering and ordnance manufacturing, etc.

High quality cladding



Narrow gap welding



Case

Small-diameter pipe welding

Parameter Welding current: 50A HW current: 30A

Wire feeding speed: 0.3m/min

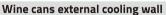
It can replace cold wire TIG, and welding efficiency is about twice of cold wire TIG.



HW TIG cladding

Parameter Welding current: 180A HW current: 90A Wire feeding speed: 2.0m/min

Hot wire TIG welding welding deposition rate close to MIG.



Cladding materials: Wear-resistant alloy steel Cladding thickness: 10mm Welding current: 250A HW current: 100A

Wire feeding speed: 4.0m/min

Cladding at internal layer of pipeline, low melting rate of base metal.



Big-diameter pipeline welding

Parameter Welding current: 240A HW current: 100A Wire feeding speed: 3.2m/min

Low heat output, high welding quality, deposition rate close to SAW.

