EN II SERIES

DIP-TIG Dynamic Intensification Process

► Carbon steel ► Stainless steel ► Copper alloy ► Titanium alloy

YTIG-400 EN-II (CW/HW)

Inverted automatic wire feeding (cold wire/hot wire)
DC pulse argon arc welding machine

TIG
Cold (hot) wire welding

TIG
Impulse DC

TIG
Constant current DC

Functions:

DC constant current TIG, DC pulse TIG.

Application industry:

Petrochemical industry, pressure vessel, electric power construction, vessel, bicycle, nuclear power and pipe laying.

Features:

- The operation panel with reasonable layout, rich functions and convenient operation;
- Parameters such as the slow rise and slow descent of electric current, impulse frequency, duty ratio, the time of advanced gas supply and lagged gas supply can be preset precisely;
- The manual metal-arc welding can adjust the electric current of the arc striking and thrust, with an easier striking of arc and preventing the adhesion of welding rod;
- The argon arc welding can protect the welding gun from water depletion;
- It has two-step and four-step welding control modes;

  It is smaller and lighter and convenient for movement;
- The current and the voltage can be displayed simultaneously. The welding current can be preset precisely;
- TIG can choose the way of the high frequency lifting of arc striking;
- The built-in strong wire feed system has a rich function menus of wire feeding, which can meet different process requirement;
- The wire feed rate and pulse current match automatically.

Pulse TIG
DYNAMIC WIRE FEEDING

Supports Hot Wire Welding

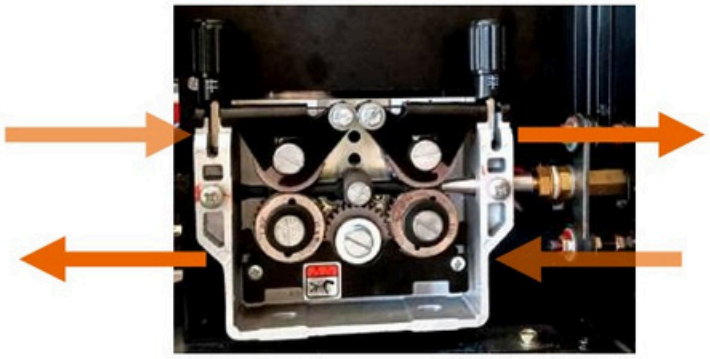
IGBT
Insulated Gate Bipolar Transistor

3

GREAT-YUVA
Welding Expert

DIP-TIG

DYNAMIC INTENSIFICATION PROCESS



Mechanized Drive Plate oscillates the 4-drive rolls back and forward at high speed (10 Hz approx.) creating slight Push-Pull motion on the wire.

Continuous wire feeding TIG Torch with Current Control

ON SITE WARRANTY

What is DIP-TIG

DIP-TIG is a continuous hot wire feeding process comprising the following-
(1) The Drive Rolls are oscillated in a linear fashion
(2) A separate Power Source for energizing(heating) the filler wire

Benefit of DIP-TIG -
Higher Metal deposition rate 3 to 7 times compared to conventional TIG

Main Technical Parameters :		YTIG-400 EN-II (CW/HW)	AC DC-TIG-200
Rated input voltage / frequency		Three-Phase 415V(+/-)10% 50Hz	Three-Phase 415V(+/-)10% 50Hz
Rated input capacity (KVA)		17.1	2.6
Rated input current (A)		26	4
Rated load sustainability (%)		100	100
DC constant current	Welding current (A)	5~400	5-200A
DC pulse	Peak current (A)	5~400	
	Base current (A)	5~400	
	Pulse duty cycle (%)	1~100	
	Pulse frequency (Hz)	0.2~20	
TIG	Arc starting current (A)	10~400	
	Arc stopping current (A)	5~400	
	Time of current-increasing (S)	0.1~10	
	Time of current-decreasing (S)	0.1~15	
	Advance air supply time (S)	0.1~15	
	Lagging time of gas-stopping (S)	0.1~20	
	Working style of arc stopping current	Two-step, Four-step	
	TIG arc strike method	HF arc	
Welding torch cooling mode		Water cooling	Water cooling
Shell protection grade		IP23	IP23
Insulation grade		H	H