



BT TIG 401/501

400 A

500 A

3ph ~ 400V

Features

- Added TIG SYN and STICK SYN welding process, reducing operational difficulty, reducing debugging time.
- Added TIG AC+DC process: TIG MIX hybrid process alternately outputs AC and DC, further increasing the heat input of the heating base material, increasing the melting depth, and reducing tungsten electrode loss.
- Flama provides you with 9 types of AC waveforms obtained by combining square waves, sine waves, and triangular waves, which are typical representatives of a series of welding characteristics you choose to use in related welding tasks.
- New dynamic arc function has been added, which can make the arc energy more concentrated, maintain energy stability when shortening the distance between the tungsten electrode and the workpiece, achieve better root fusion, and obtain deeper penetration.
- High definition colorful anti-dizziness touchable screen with pure text display.
- Support Multi-Languages.
- The new water cooling system is equipped with an LCD screen to monitor water levels, inlet/outlet temperatures, and real-time status of pumps and fans (BT TIG 501).

**Heavy industrial use !**

WELDING MODE

1.TIG SYN-HF/LT
2.TIG MAN-HF/LT

3.TIG AC+DC
4.STICK SYN

5.STICK MAN

Product Parameters

Model	BT TIG 401				BT TIG 501			
Parameters								
Power supply voltage (V)	3~400				3~400			
Power frequency (Hz)	50/60				50/60			
	TIG		MMA		TIG		MMA	
	AC	DC	AC	DC	AC	DC	AC	DC
Effective current (A)	20	21.1	25.1	26.3	24.9	26.2	31.4	32.9
Rated input current (A)	25.8	27.1	32.4	34	32.2	33.8	40.5	42.5
Rated input power (kVA)	15.9	16.3	21.1	22.2	22.3	23.4	28.0	29.4
Duty cycle 40℃ 10min	60% 400A		60% 400A		60% 500A		60% 500A	
Welding current range (A)	10–400	5–400	10–400		10–500	5–500	10–500	
No load Voltage(V)	15		80		14		14	
Efficiency (%)	91.1				95.5			
Power factor	0.75				0.77			
Insulation class	F				F			
Protection class	IP23S				IP23S			
Cooling	AF				AF			
Net weight (kg)	29.5				29.5			
Dimensions (mm)	720*270*490				720*270*490			