



**Shri Balaji Alloys  
Corporation India**



# TIG 400 AC/DC

Digital inverter pulse mode AC/DC TIG welding

## PROPERTIES

This welding machine features a special advanced pulse characteristic for AC and DC welding of aluminum and aluminum alloys, as well as carbon steel, stainless steel, copper, and other non-ferrous materials. This allows for increased travel speed and reduced warping. The digital inverter pulse mode AC/DC TIG welding is reliable and includes HF and MMA (Stick) for constant inverter functioning. The machine also includes adjustable slop up/down, gas pre-flow, and post-flow control for maximum shielding gas protection before and after the weld. The design is portable and lightweight and features a rugged exterior with a flip-down visor to protect the panel from burns and damage. Advanced pulse functions facilitate better control over heat input, resulting in less distortion on thin metals. The combination of AC and DC TIG permits deep penetration and significantly reduces electrode consumption. The machine also includes self-regulating compensation for mains voltage fluctuations within  $\pm 20\%$ . The 2T/4T up and down slope application allows for welding with the torch switch, and micropulse discharges heat-affected zones, especially on thin materials.

## TECHNICAL DATA

Specification	Unit	TIG 400 AC/DC
Input voltage	Volt	AC415 $\pm$ 15%
Phase	No	3
Frequency	Hz	50/60
Max input KVA@100% duty cycle	Kva	13.2
Open circuit voltage	Volt	N/A
Welding current range	Amps	20-400
Welding current @60% duty cycle	Amps	400
Welding current @100% duty cycle	Amps	N/A
Power factor	Cos $\Phi$	N/A
Suitable electrode diameter	mm $\Phi$	N/A
Cooling	Type	Forced Air
Dimensions (LxWxH)	mm	709x440x750
Weight (approx)	kg	60

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