RAZORWELD TIG320RZ AC/DC



TIG/MMA - 320 Amp AC/DC Inverter Welder

Welds: Aluminium, Magnesium, Zinc Alloys, Steels, Stainless, Cast Iron, Bronze, Copper



RAZORWELD TIG320RZ AC/DC

TIG/MMA 320 Amp 415V AC/DC Inverter Welder Intelligent Digital Control, 43KHz Inverter Multiple AC Wave Forms with Mix Arc Integeral Water Cooler, H.D Trolley

Features

AC TIG

- HF Arc Ignition
- Lift Arc Ignition
- Square Wave Form
- Trapezoidal Wave Form
- Sine Wave Form

- AC Wave Frequency Frequency Amps 50~200 Hz

5~200A 200~320A 50~100 Hz

- AC Pulse Frequency Amps Frequency 0.5~20 Hz 5~200A 0.5~10 Hz

210~320A 5~95%

- AC Balance Control 20~60% EN +/- 10

DC TIG

- HF Arc Ignition

- Pulse Width Control

- Lift Arc Ignition

- DC Pulse Frequency Frequency Amps 5~320A 0.5~200Hz

MIX ARC TIG (AC-DC)

- HF Arc Ignition
- Lift Arc Ignition

- AC-DC Mix Cycle 5~95% DC - AC Wave Frequency 50-100 Hz - Mix Pulse Frequency 1~10 Hz

Weld Sequence Control

- Pulse Width Control 5~95% - Start Current 5~320A - Base Current 5~320A - Up Slope 0~15 sec - Down Slope 0~15 sec - Adjustable Pre Gas 0.5~10 sec - Adjustable Post Gas 0.5~15 sec 2T-2s ~ 4T-4s - Trigger Control - Remote Amp Control Optional

MMA (stick electrode)

- AC and DC Output

- Ignition Amp 10-80A - Ignition Time 0.01-1.5 sec

- Arc Force (adjusts arc energy to suit electrode application)



Technical Data

Power Supply 400V 3-Phase ±15% Rated Input Power TIG 9.0 kVA MMA 10.0 kVA Rated Output TIG

MMA 10~270A / 20.4~30.8V

No Load Voltage Duty Cycle @ 40°C as per AS/NZ60974-1

Power Factor

Protection Class Insulation Class

Dimensions (LxWxH)

Weight

Certification Approval

10~320A / 10.4~22.8V

73V

30% @ 320 Amps TIG 30% @ 270 Amps MMA

IP21S F

570 x 220 x 410mm

26.2 kg AS/NZ60974-1



RAZORWELD TIG320RZ AC/DC

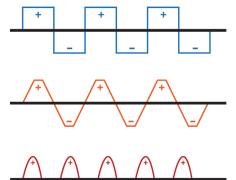
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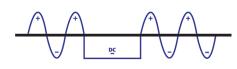
AC WAVE FORMS



AC Square Wave: Allows the current to change from electrode + positive to electrode - negative very quickly. This produces high voltage as the current switches polarities allowing the arc to restart easily. The arc can be maintained without the use of high-frequency and the fast transitions provide for responsive, dynamic and focused arc for better directional control.

AC Triangle Wave: Characterised by a particularly soft and concentrated arc combining the effect of peak amperage while reducing overall heat input. Leads to quick puddle formation and, because of lowered heat input, reduced weld distortion, especially on thin material This wave form is ideal for very precise welding of thin Aluminum plate.

AC Sine Wave: It is the standard Wave form, characterised by low noise and excellent arc control, it also gives the soft-arc feel of a conventional power source, while using square transitions to eliminate the need for continuous HF.



AC MIX ARC: This function of MIX AC/DC makes it possible to modulate the welding current, alternating a period of TIG AC with a period of TIG DC-. This means that the efficiency of AC TIG welding can be combined with the high penetration of DC TIG welding, obtaining higher welding speeds and establishing the weld puddle quicker on cold workpieces. The operator adjustable parameter is the percentage of AC waveform compared to DC- waveform over the entire period, which can be varied from 5~95%. Ideal for welding heavier gauge material with less current than AC welding.

Overview

The Razorweld TIG320RZ ACDC is a complete and professional TIG /MMA welding machine that is ideal for all high-end aluminium, stainless steel fabrication, marine and industrial engineering welding situations. Designed and built to our specification and manufactured in compliance to AS/NZ60974-1.

AC TIG: Featuring multiple AC output wave forms of Square, Trapezoidal and Sine, combined with AC Balance and AC Frequency control you have the ultimate tool in AC TIG Welding mode to suit all your AC TIG welding requirements.

DC TIG: Latest 43KHz inverter frequency technology provides the ulitmate in smooth and stable arc condition for DC TIG welding mode, coupled with the Digital Weld Sequence Program provides complete and professional DC TIG Welding function.

MIX ARC: This function of MIX AC/DC makes it possible to modulate the welding current, alternating a period of TIG AC with a period of TIG DC-. This means that the efficiency of AC TIG welding can be combined with the high penetration of DC TIG welding, obtaining higher welding speeds and establishing the weld puddle quicker on cold workpieces. The operator adjustable parameter is the percentage of AC waveform compared to DC- waveform over the entire period, which can be varied from 5~95%.

MMA: Full attention is given to MMA welding providing both DC and AC output modes. Ignition AMP and Ignition Time provides for an operator controlled Hot Start of the weld by applying extra current to the set weld current over a preset time. Arc force allows adjustment of the arc transfer from a digging action through to a softer layering effect. The complete and professional MMA function allows you to set the ideal arc condition no matter what the electrode and welding situation.

Weld Sequence Control: The Digital Weld Sequence Program and intelligent MCU software provides full TIG functionality in AC, DC and MIX modes. Adjustable pre-sets include Pre-Gas time, Start Current, Up Slope, Down Slope, Finish Current level and Post-Gas time. Digital Pulse parameter pre-sets include Peak & Base current; Pulse Frequency & Pulse Width. HF and LIFT Arc Ignition.

Torch Mode: Multiple torch trigger selections of 2T, 2S, 4T, 4S provide complete flexibility and operator control over the weld sequence from start to finish.

Remote Control: The Remote Interface allows connection of either Torch Remote or Foot Pedal for remote control of amperage output.

Job Memory: Job memory function allows you to enter and store weld parameter settings under job numbers. The job number can be recalled to reveal and use the weld parameters stored, weld parameters can be further adjusted and stored as required. A total of 50 Jobs can be memorised and stored for recall.

Water Cooler Control: Activating the water cooler control allows for the water cooler to operate when welding current is available during welding and will switch off automatically after 5 minutes of no welding current.

Product Code: XA-TIG320RZ ACDC-K

Standard Package includes: TIG320RZ ACDC Machine, ARC T4W X 8m Tig Torch, Earth Lead & Arc Lead 35mm x 4m, Argon Regulator

