

Sydney: (02) 9890 9111 Brisbane: (07) 3715 2200 Melbourne: (03) 9212 4422 Perth: (08) 9373 9999

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RAZOR™ 320 AC/DC - TIG WELDER

#KUMJRRW320ACDC 10-320 Amps Welding Current Range











Ex GST Inc GST \$3,545.45 \$3,900.00

ORDER CODE:	, W176
Type:	TIG WELDER
MODEL:	RAZOR™ 320 AC/DC
Part Number:	#KUMJRRW320ACDC
Voltage / Amperage (V / amp):	415 / 10
Recommended Plug (amp):	10
Input Frequency (Hz) (Hz):	50-100
Input Current (amp):	19
leff Current (amp):	15
Power Rating (kVA):	9
Rated Output Current (amp / V):	~
Range of Output Current (amp):	10 - 320
Arc Force (amp):	~
No Load Voltage (V):	73
Pre-Flow (S) (sec):	0.5-10
Clean Width (%) (%):	~
Slope-Down Time (S) (sec):	0 - 15
Post-Flow Time (sec):	0.5-15
Base Current (%):	~
Pulse Frequency (Hz):	0.5 - 200
Pulse Duty Cycle (%):	~
Duty Cycle 40 Deg C - TIG (% @ amp):	30 @ 315
Duty Cycle 40 Deg C - MMA (% @ amp):	30 @ 270
Duty Cycle 40 Deg C - Plasma (% @ amp):	~
Plasma Severance Cut Capacity Carbon Steel (mm):	~
Plasma Production Cut Capacity Carbon Steel (mm):	~
Plasma Production Cut Capacity Aluminium (mm):	~
Protection Class:	IP21S
Remote Control (Yes / ~):	~
Recommended Generator (kVA):	~
Efficency (%):	~
Power Factor:	~
Insulation Class:	~
Dimensions (mm):	566 x 223 x 405
Nett Weight (kg):	25.5

Description

The RAZOR 320 AC/DC is a new generation inverter welder with a primary function of AC/DC TIG. AC TIG: Featuring multiple AC output waveforms 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 ultimate 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 work-pieces. 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 provide 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 provide 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 presets 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 ?nish. Remote Control: The Remote Interface allows connection of either Torch Remote or Foot Pedal for remote control of amperage output. Job Memory: Job memory



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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, and 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. The RAZOR 320 AC/DC 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 speci?cation and manufactured in compliance with AS/ NZ60974-1.

Features

- **AC TIG**
- DC TIG
- MIX ARC TIG
- STICK
- WELD SEQUENCE CONTROL
- 2T/2S/4T/4S Torch Mode
- Foot Control Ready
- Water Cooler Ready
- AC TIG: Featuring multiple AC output waveforms 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 ultimate 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 e?ciency 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 work-pieces. 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 provide 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 provide 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 presets 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 ?exibility and operator control over the weld sequence from start to ?nish.
- 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, and 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.
- 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 waveform is ideal for very precise welding of thin Aluminium
- AC Sine Wave: It is the standard waveform, 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 work-pieces. 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.

Ir ıcludes

- RAZOR TIG 320 AC/DC Power Source
- 4m High Performance T3 TIG Torch (including consumables)
- 4m Twist Lock Electrode Holder



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Product Brochure For W176

- 500 Amp Earth Clamp & Lead
- Argon Flowmeter Regulator
- 2m Gas Hose Complete with fittings
- **Operating Manual**

Optional Accessories

- Standard Trolley (W176B) Water Cooling System, Trolley & Torch (W176K) Foot Control (W176A)

Specific Features







W176

Right View

Front View

Recommended Accessories

W505A

W10361

T3 Tig Torch Consumable Pack Magnetic TIG Torch Rest W176A

Suits RAZOR AC/DC 320 Tig Welder

W6000

Ø10mm Ceramic Nozzle











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Product Brochure For W176

W6002 1.6mm Collet Body

W6003 2.4mm Collet Body

W6005 Head Gasket

W6006 Heat Isolator









W6007 Short Back Cap

W6008 Long Back Cap

W119 Anti-Spatter Spray

O0183 Ar - Argon Disposable Cylinder









O0184 Ar/O2 - Argon 98% & Oxygen 2% Disposable Cylinder

O0185 CO2/Ar - 86% Argon & 14% Carbon Dioxide Disposable Cylinder

O300 Gas Refillable Cylinder

O304
Gas Refillable Cylinder











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Product Brochure For W176

O3045

Gas Refillable Cylinder

O302

Gas Refillable Cylinder

O306

Gas Refillable Cylinder

O3065

Gas Refillable Cylinder









O0171 Argon Gas Regulator

W161 Argon Gas Regulator-Bobbin Flowmeter

W160A

Argon Gas Regulator-Twin Gauge

W590

1.6mm Tig Tungsten Electrode -Zirconiated White







W596

2.4mm Tig Tungsten Electrode -Zirconiated White

W597

1.6mm Tig Tungsten Electrode -Ceriated Grey

W598

2.4mm Tig Tungsten Electrode -Ceriated Grey

W002

Auto Darken Welding Helmet - 9~13 Shade











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W003

Auto Darken Welding Helmet - 5~8 / 9~13 Shade

W159

Auto Darken Welding Helmet with PAPR Respiratory System -5-9, 9-13 Shade

W1000A

Promax HV5 Welding Jacket

W1001A

Promax Blue FR Welding Jacket









W1002A Professional Promax BL7 Welding Jacket

W101 TIG Welding Gloves - 310mm

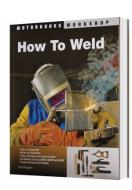
W100 ROGUE™ Heavy Duty Welding Gloves - 400mm

L3456 How to Weld Book









W225 Welding Curtain

W125 Ø1.6mm TIG Filler Rod - Mild Steel

W126 Ø2.4mm TIG Filler Rod - Mild Steel

W127 Ø1.6mm TIG Filler Rod -Stainless Steel











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W128 Ø2.4mm TIG Filler Rod -Stainless Steel

