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Product Brochure For W175

# AC/DC Inverter TIG/MMA (ARC) Welder - AC/DC 315 Razor Digital

#KUMJRRW315ACDC

10-315 Amps Welding Current Range




| | |
|---|---|
| ORDER CODE: | W175 |
| Type: | AC/DC Inverter Welder |
| MODEL: | RAZOR DIGITAL 315 |
| Part Number: | #KUMJRRW315ACDC |
| Voltage / Amperage (V / amp): | 415 |
| Recommended Plug (amp): | 10 |
| Input Frequency (Hz) (Hz): | 50 |
| Input Current (amp): | 19 |
| Imax (A) (amp): | ~ |
| Ieff Current (amp): | 13 |
| Power Rating (kVA): | 9 |
| Rated Output Current (amp / V): | ~ |
| Range of Output Current (amp): | 10 - 315 |
| Arc Force (amp): | 0 - 100 |
| No Load Voltage (V): | 45 |
| Pre-Flow (S) (sec): | 0 - 15 |
| Clean Width (%) (%): | 10 - 90 |
| Slope-Down Time (S) (sec): | 0 - 60 |
| Post-Flow Time (sec): | 2.0 - 20 |
| Base Current (%): | ~ |
| Pulse Frequency (Hz): | 0.5 - 200 |
| Pulse Duty Cycle (%): | 10 - 90 |
| TIG Welding Thickness Range (mm): | ~ |
| MMA Welding Thickness Range (mm): | ~ |
| MMA Electrode Range (mm): | ~ |
| Duty Cycle 40 Deg C - TIG (% @ amp): | 20 @ 315 |
| Duty Cycle 40 Deg C - MMA (% @ amp): | 60 @ 230 |
| 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): | ~ |
| Dinse Connector: | ~ |
| Protection Class: | IP21S |
| Insulation Class: | ~ |
| Standard: | ~ |
| Remote Control (Yes / ~): | Yes |
| Recommended Generator (kVA): | ~ |
| Efficency (%): | ~ |
| Power Factor: | 0.93 |
| Dimensions (mm): | 590 x 375 x 380 |
| Nett Weight (kg): | 33 |

## Description

The RAZOR315AC/DC is a Digital Controlled square wave AC/DC TIG inverter welder with full TIG functionality that offers simple step by step digital setting of functions and parameters providing you with complete professional control. HF arc ignition provides pre gas with instant arc ignition leaving no tungsten inclusion or contamination of the tungsten electrode. Digital set of Pre Gas Time, Start Current, Up Slope and Down Slope Time, Finish Current Level and Post Gas Time with the choice of 2T or 4T trigger function allows controlling the start and finish of the weld process at a professional level. Digital Pulse Frequency Control gives full parameter setting of Peak Current, Base Current, Pulse Frequency and Pulse Width, allowing control of heat input into the work for penetration control and minimising distortion. AC Square Wave with Balance Control gives maximum control of the electron flow at the tungsten allowing to set the AC TIG arc for maximised cleaning of the oxide layer on aluminium to adjustment for a deeper penetrating weld.

Combined functions of the RAZOR315AC/DC ensures comprehensive control of welding parameters when welding AC and DC weldable materials to produce high quality Tig welds. Our unique Torch Remote Control Interface provides remote amperage control from the torch in

both static and live welding modes. The DC MMA welding function delivers a smooth and stable arc allowing easy welding with electrodes obtaining high quality welds including cast Iron, stainless and low hydrogen. The added bonus of Arc Ignition and Arc Force control allows you to set the ideal arc condition no matter what electrode you choose. The RAZOR315AC/DC has raised the benchmark for 415V three phase AC/DC welders making it ideal for multiple applications; aluminium & stainless steel fabrication and repair and maintenance applications. Built to our specification and manufactured in compliance to AS/NZ60974-1

## Features

- Latest IGBT Inverter Technology
- AC/DC HF TIG/MMA Function
- 2T/4T 2S/4S Trigger Select
- AC Square Wave
- AC Balance Control
- Pulse Control
- Pulse Width Control
- Base Current Control
- Up Slope / Down Slope Control
- Pre Gas / Post Gas Control
- Arc Ignition Current Control
- Arc Ignition Time Set Control
- Arc Force Select
- Remote Amperage Control
- Job Memory / Recall

## Includes

- SR-26 4M TIG Torch
- Arc & Earth Lead
- Argon regulator
- Gas Hose
- 315P AC/DC Machine

## Optional Accessories

- Stand (W175A)
- Water cooler stand (W175C)
- Foot Control (W174A)




## Recommended Accessories

W10361

Magnetic TIG Torch Rest

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W171
Air Cooled TIG Welding Torch



W119
Anti-Spatter Spray




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




O300
Gas Refillable Cylinder



O304
Gas Refillable Cylinder



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



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# Product Brochure For W175

## 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



## W001
Auto Darken Welding Helmet - 9~13 Shade



## W002
Auto Darken Welding Helmet - 9~13 Shade



## W1000A
Promax HV5 Welding Jacket



## W1001A
Promax Blue FR Welding Jacket



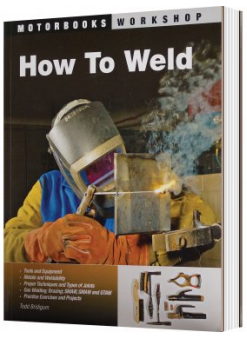
## W1002A
Professional Promax BL7 Welding Jacket



## W100
ROGUE™ Heavy Duty Welding Gloves - 400mm



## L3456
How to Weld Book



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# Product Brochure For W175

## 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



## W128
Ø2.4mm TIG Filler Rod - Stainless Steel

