

Product Brochure For W168

AC/DC MIG/TIG/STICK - RAZOR™ Multi 230

#U11004K

4 IN 1



ORDER CODE:	W168
MODEL:	RAZOR MULTI 230
Type:	AC/DC / MIG / TIG / STICK & Multifunction Welder
Part Number:	U11004K
Voltage (V):	240
Recommended Plug Amperage (amp):	15
Welding Current Range - MIG (amp):	25 - 230 (15A)
Welding Current Range - STICK (amp):	10 - 200
Welding Current Range - TIG (amp):	10 - 200
Duty Cycle (% @ amp):	25% @ 230A (15A) MIG
Wire Spool Size (kg):	1 / 5
Ferrous Wire Size - Range (mm):	0.6 - 1.2
Stainless Steel Wire Size - Range (mm):	0.8 - 1.0
Aluminium Wire Size - Range (mm):	0.9 - 1.2
MMA Rod Size (mm):	~
Wire Feeding Speed (m/min):	~
Recommended Generator (KVA):	10 (15A)
Dimensions (mm):	660 x 210 x 330
Nett Weight (kg):	20



Description

A true multipurpose machine, the 4-in-1 is capable of every kind of welding you need, packed with next-gen technologies.

- High-frequency AC & DC TIG
- MIG and TIG Smart-Set weld modes for complete synergic setups
- Advanced TIG programs for professional results

MIG Smart-Set

Ready to weld with the press of a few buttons. Simply select your joint type, filler wire, gas mixture, wire diameter, and material thickness, and the machine will choose the ideal settings. If it's a little off, you can make manual adjustments to finetune every weld.

TIG Smart-Set

Starting a weld has never been faster with the all-new synergic TIG. Choose your material, joint type, tungsten diameter, plate thickness, and gas mixture, and you're off and running. If it's not quite right, you can tweak the parameters to perfection.

Superior Arc Starts & Finishes

Hot Start - Get the smoothest arc starts possible. The Arc Start function gives you the option of either a boost of current or a reduction in current at the beginning of your weld. The arc start eliminates any issues with starting on cold metal, lets you weld on thicker materials, stops burn through on thinner materials, and makes welding aluminium even easier.

Crater Fill - End your welds as strong as they started. The Arc End feature ramps your welding current and voltage down at the end of a weld, filling it in at a lower amperage, eliminating craters and pinholes.

Ultimate TIG Welding

Weld every kind of metal. With the ability to run on an Alternating Current (AC) you're able to weld aluminium as effortlessly as mild and stainless steels on a Direct Current (DC).

PLUS Programs

Achieve professional results on every weld with the advanced PLUS programs.

SpotPlus - Speeds up the formation of the weld puddle by applying an adjustable synergic pulse to the beginning of the weld.

ArcPlus - Keeps the weld current constant by adjusting the voltage or amperage as needed when the arc length changes for a consistent weld puddle, sharper arc and steady heat input.

TackPlus - Create evenly spaced and sized fusion tack welds with a preset weld time and adjustable frequency.

FusionPlus - Gives a more penetrative weld while in AC by shifting the waveform further into the negative side for greater penetration, a narrower arc and less cleaning around the weld.

Mixed AC/DC

Experience the best of both worlds. Mixed AC/DC combines the efficiency of AC and the penetration of DC- TIG in one weld. With it, you get

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faster welding speeds, better penetration, a faster weld puddle on cold workpieces, and you can weld on thicker materials.

Power Factor Correction (PFC)

Get the most out of your machine. The PFC maximises the electrical efficiency of the machine and automatically compensates for any voltage fluctuations, so you get more output power and the internal components last longer..

Inverter Technology

Not every inverter is made equal. With UNIMIG's ever-evolving, state-of-the-art IGBT Inverter technology, you get better performance, better efficiency, and better reliability.

Geared Wire Drive

For a consistent and smooth wire-feeding experience. The geared wire drive unit gives more power pushing to the wire, improving the wire feeding, especially in longer torches.

Smart Fan

Smart Fan diminishes noise, saves power, helps reduce energy costs, and minimises the number of contaminants being pulled through the machine.

Advanced MMA Features

Advanced MMA features are designed for improving weld quality and ease of use.

Pulse MMA - Revolutionary pulse stick reduces spatter, improves heat control and makes for easier slag removal, as well as improves the speed and efficiency of vertical up welds without sacrificing any root fusion.

Arc Force - The adjustable arc force adjusts the current (and, therefore, the heat) based on the length of the arc. When the arc becomes shorter, the current increases to keep it stable and stop the electrode from sticking. When the arc becomes longer, the current will decrease.

Hot Start - The adjustable hot start is designed to help with striking an arc. The hot start temporarily boosts the output current at the start, making striking an arc, even with difficult electrodes, much easier. You get smoother arc starts, improving the quality of your weld.

Anti-Stick - The Anti Stick feature, which is always on, prevents your electrode from sticking to your workpiece. When the machine detects sticking, the current will drop significantly, so the electrode can be removed.

Job Memory

Save all of your favourite settings with the Job Memory feature, with up to 20 save spaces available.

Tungsten Optimiser

The Tungsten Optimiser gives you superior and easier arc ignition on every weld.

Inductance Control

Take complete control of your arc with the inductance settings. By changing the frequency of your short circuit MIG welds with the Inductance controls, you can choose your preferred arc characteristics on every weld.

Dual Gas Inputs

Set up for MIG and TIG at the same time. With dual gas inputs for both weld types, you won't need to swap your gas when you swap torches. The quick connect inputs also make replacing your gas bottle as simple as unplugging and plugging in.

Burnback Adjustment

Stop your wire from ever fusing with your weld or your contact tips again. Tune your burnback control to suit how much wire you want to remain sticking out from your torch when you finish a weld.

Generator Compatible

Take it anywhere. Connect the machine to a generator and use it wherever, whenever you need it. We recommend 8.5kVA in 10A mode or 10kVA in 15A mode for this machine.

Includes

- RAZOR MULTI 230 AC/DC Welder
- 4m M24 MIG Torch
- 4m T2 TIG Torch
- 3m Twist Lock Electrode Holder
- 3m 300A Earth Clamp & Lead
- Twin Gauge Argon Regulator
- 1.8m Quick-Connect Gas Hose
- Operating Manual
- 0.8-0.9mm V Groove Roller
- 0.8-0.9mm F Groove Roller
- 1.0-1.2mm U Groove Roller

Optional Accessories

- Spool Gun - Make welding aluminium even easier. No need to change your existing setup. The spool gun lets you quickly switch over and get any job done with no downtime.
- Foot Pedal - Enjoy greater control and precision with our optional foot control accessory. This handy feature allows you to easily adjust your TIG amperage on the fly, without interrupting your torch movement. Wireless and wired options available.

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Specific Features



Front View



Left Side View



Full Kit

Recommended Accessories

W181D

Spool Gun

W496

SB24 Mig Torch Consumable Pack

W100

ROGUE™ Heavy Duty Welding Gloves - 400mm

W10362

Magnetic MIG Torch Rest



W10361

Magnetic TIG Torch Rest

W563

MIG Torch - 3 Metre

W171D

Air Cooled TIG Welding Torch

W119

Anti-Spatter Spray



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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



O3045

Gas Refillable Cylinder



O302

Gas Refillable Cylinder



O306

Gas Refillable Cylinder



O3065

Gas Refillable Cylinder



O0171

Argon Gas Regulator



W160A

Argon Gas Regulator-Twin
Gauge



W161

Argon Gas Regulator-Bobbin
Flowmeter



W001

Auto Darken Welding Helmet -
9-13 Shade



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W002

Auto Darken Welding Helmet -
9-13 Shade



W1000A

Promax HV5 Welding Jacket



W1001A

Promax Blue FR Welding Jacket



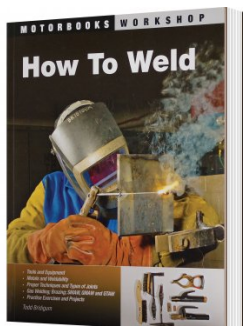
W1002A

Professional Promax BL7
Welding Jacket



L3456

How to Weld Book



W225

Welding Curtain



W138A

Ø0.6mm Mild Steel MIG
Welding Wire



W140A

Ø0.8mm Mild Steel MIG
Welding Wire



W142

Ø0.9mm Mild Steel MIG
Welding Wire



W135

Ø0.9mm Mild Steel MIG
Welding Wire



W136

Ø0.8mm Mild Steel MIG
Welding Wire



W145B

Ø0.8mm Gasless Mild Steel
MIG Welding Wire



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W145

Ø0.9mm Gasless Mild Steel
MIG Welding Wire



W143

Ø1.0mm Aluminium MIG
Welding Wire



W144

Ø1.2mm Aluminium MIG
Welding Wire



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



W2021

HYPERARC™ 6013 GENERAL
PURPOSE



W546

10 x 0.6mm Contact Tips - Steel



W548

10 x 0.8mm Contact Tips - Steel



W549

10 x 0.9mm Contact Tips - Steel



W549A

10 x 0.9mm Contact Tips -
Aluminium



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W550

10 x 1.0mm Contact Tips - Steel



W550A

10 x 1.0mm Contact Tips - Aluminium



W552

10 x 1.2mm Contact Tips - Steel



W552A

10 x 1.2mm Contact Tips - Aluminium



W539

0.6-0.8mm Blue Steel Liner



W538

1.0-1.2mm Red Steel Liner



W567

1.0-1.2mm Red Aluminium Liner



W555

2 x Conical Nozzles



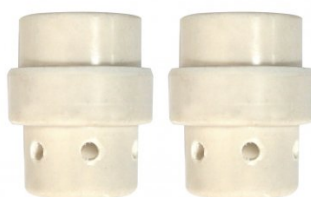
W557

2 Contact Tip Holders



W556

2 x Gas Diffusers



W558

Swan Neck Assembly



W08450

FIXTURE TABLE



Product Brochure For W168

W08500

40pc Square & Round Welding
Table Clamp Kit



W08510

Weld Clamps with Locking Nuts
(2 Piece Pack)



C103

228mm Multi-Purpose Locking
Clamp



W08512

Weld Clamps with Locking Nuts
(2 Piece Pack)



W08515

38mm x M12 Multi-Purpose
Riser/Stops (Spigot Type) - 4pc
Pack



V099

90 degree Angle Vice Clamp



V100

90 degree Angle Vice Clamp

