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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

UNIMIG

3 YEAR WARRANTY

15A PLUG 240V

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

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
220 Amp Binzel Style Spool Gun



W496
Binzel 24 Style Mig Torch Consumables Starter Kit



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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Product Brochure For W168

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



W002
Auto Darken Welding Helmet - 9~13 Shade



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Product Brochure For W168

W1000A
Promax HV5 Welding Jacket



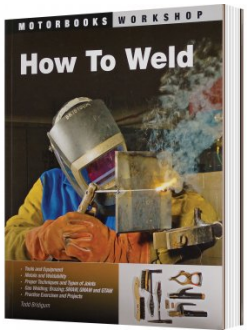
W1001A
Promax Blue FR Welding Jacket



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



W145
Ø0.9mm Gasless Mild Steel MIG Welding Wire



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Product Brochure For W168

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
0.6mm Binzel Style M6x8mm Contact Tips - Steel



W548
0.8mm Binzel Style M6x8mm Contact Tips - Steel



W549
0.9mm Binzel Style M6x8mm Contact Tips - Steel



W549A
0.9mm Binzel Style M6x8mm Contact Tips - Aluminium



W550
1.0mm Binzel Style M6x8mm Contact Tips - Steel



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Product Brochure For W168

W550A
1.0mm Binzel Style M6x8mm Contact Tips - Aluminium



W552
1.2mm Binzel Style M6x8mm Contact Tips - Steel



W552A
1.2mm Binzel Style M6x8mm Contact Tips - Aluminium



W539
Binzel Style 0.6-0.8mm Blue Steel Torch Liner

W538
Binzel Style 0.9-1.2mm Red Steel Torch Liner

W567
Binzel Style 0.9-1.2mm Red Aluminium Torch Liner



W555
Binzel Style 24 Conical Nozzles



W557
Binzel Style 24 Contact Tip Holders



W556
Binzel Style 24 Gas Diffusers



W558
Binzel Style 24 Swan Neck Assembly



W08450
FIXTURE TABLE



W08500
40pc Square & Round Welding Table Clamp Kit



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Product Brochure For W168

W08510
Weld Clamps with Locking Nuts (2 Piece Pack)



C103
228mm Muliti-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

