

Product Brochure For W169

# TIG /MMA Welder - VIPER™ 180 AC/DC

#KUM-M-VTIG180ACDC  
 5-180 Amps Welding Current Range



ORDER CODE:	W169
Type:	TIG WELDER
MODEL:	VIPER™ 180 AC/DC
Part Number:	#KUM-M-VTIG180ACDC
Voltage / Amperage (V / amp):	240 / 10
Recommended Plug (amp):	10
Input Frequency (Hz) (Hz):	~
Input Current (amp):	24
I <sub>max</sub> (A) (amp):	~
I <sub>eff</sub> Current (amp):	8
Power Rating (kVA):	~
Rated Output Current (amp / V):	~
Range of Output Current (amp):	180 - TIG & 130 - MMA
Arc Force (amp):	0 - 40
No Load Voltage (V):	70
Pre-Flow (S) (sec):	0.1 - 3
Clean Width (%) (%):	~
Slope-Down Time (S) (sec):	0 - 15
Post-Flow Time (sec):	0.5 - 15
Base Current (%):	~
Pulse Frequency (Hz):	0.2 - 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):	10 @ 180
Duty Cycle 40 Deg C - MMA (% @ amp):	10 @ 130
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:	F
Standard:	~
Remote Control (Yes / ~):	~
Recommended Generator (kVA):	9
Efficiency (%):	~
Power Factor:	~
Dimensions (mm):	502 x 218 x 382
Nett Weight (kg):	12.8

## Description

The VIPER TIG 180 AC/DC is the perfect AC/DC TIG & STICK Welder for the DIY Enthusiast wanting both AC and DC TIG welding capabilities at an affordable price. Fitted with a 10 AMP Plug, this machine excels in the home workshop. The VIPER TIG 180 AC/DC allows for full control over the TIG welding process to ensure you can maximise your results from start to finish. Controllable parameters include Pre Gas Time, Start Current, Up Slope and Down Slope Time, Finish Current Level and Post Gas Time, among many others.

The all-new ARC TORCHOLOGY T2 TIG Torch comes standard with the VIPER TIG 180 AC/DC, offering up to 30% more power and longer consumable life-cycles. A Remote Foot Control (UTJRFC-4) can also be plugged into the machine for even more versatility. With all of these features packed into an affordable package, the VIPER TIG 180 AC/DC is a must-have for any DIY TIG enthusiast.

### 10 AMP PLUG

Plug and play. A 10 AMP power plug can be used on any domestic outlet. It's perfect for the DIY home handyman or the professional welder

## Product Brochure For W169

looking for a machine that can be used almost anywhere.

### HIGH-FREQUENCY TIG

No need to arc up. High-Frequency TIG (H/F TIG) gives you more control when starting and stopping the arc. The arc can be started without contacting the workpiece reducing the risk of contaminating the tungsten or the weld.

### PULSE FUNCTION

Going a little thin on top? Pulse TIG function allows you to control the heat, which in turn helps minimise distortion in the parent material. This is exceptionally useful on thin gauge materials.

## Features

- 10 AMP Plug
- AC/DC H/F TIG & PULSE TIG
- Pre Gas 0.1 - 3.0 sec
- Start Amperage 5 - 160A
- Up Slope 0 - 10 sec
- Peak Amp 5 - 180A
- AC Square Wave 20 - 250Hz
- AC Balance Control  $\pm 10$
- Down Slope 0 - 15 sec
- Adjustable Finish Amperage 5 - 180A
- Post Gas 0.5 - 15.0 sec
- STICK (MMA) with ARC FORCE
- Thermal overload protection
- IP21S rating for environmental/safety protection
- Generator compatible (recommend KVA minimum)
- VRD (Voltage Reduction Device)
- Foot Control Ready

## Includes

- VIPER TIG 180 AC/DC Power Source
- 4m High Performance T2 TIG Torch (including consumables)
- 4m Twist Lock Electrode Holder
- 300 Amp Earth Clamp & Lead
- Argon Flowmeter Regulator
- 2m Gas Hose Complete with fittings
- Operating Manual

## Optional Accessories

- Foot Control (W172A)
- Stand (W174B)

## Specific Features



Side View



Front View



Right View

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**Recommended Accessories**

**W241**  
 Universal Welder Trolley



**W2415**  
 TRI-CART Multi-Machine  
 Welding Trolley



**W501A**  
 M350 MIG Torch Consumables  
 Starter Kit



**W504A**  
 T2 Tig Torch Consumable Pack



**W10361**  
 Magnetic TIG Torch Rest



**W119**  
 Anti-Spatter Spray



**O0184**  
 Ar/O<sub>2</sub> - Argon 98% & Oxygen  
 2% Disposable Cylinder



**O0185**  
 CO<sub>2</sub>/Ar - 86% Argon & 14%  
 Carbon Dioxide Disposable  
 Cylinder



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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



W160A  
 Argon Gas Regulator-Twin  
 Gauge



W5991  
 Ø10mm Ceramic Nozzle



W5993  
 1.6mm Collet Body



W5994  
 2.4mm Collet Body



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**W5996**  
 Head Gasket



**W5997**  
 Heat Isolator



**W5998**  
 Long Black Cap



**W5999**  
 Short Back Cap



**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



**W1000A**  
 Promax HV5 Welding Jacket



**W1001A**  
 Promax Blue FR Welding Jacket



**W1002A**  
 Professional Promax BL7  
 Welding Jacket

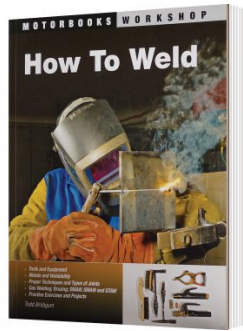


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**W100**  
 ROGUE™ Heavy Duty Welding  
 Gloves - 400mm



**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



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

