

Keep your **Vortex** unit running smoothly by replacing the lens, pre-filter & filters regularly!



Accessories & Replacement Parts

PART NO.	DESCRIPTION
236010	Battery Charger - Vortex
236011	Replacement Battery - Vortex
236012	Replacement Hose - Vortex
236013	Replacement Head Seal - Vortex
236014	Replacement Filter Cover - Vortex
236015	Pre-Filter (pack 10) - Vortex
236020	Replacement Filter, P3
236030	Replacement Belt
236031	Replacement Back Harness
236099	Carry Bag

Optional Accessories

PART NO.	DESCRIPTION
216326P	Front Lens Cover (pack 5)
216327P	Inside Cover Lens (pack 5)
212238P	Magnifying Lens x 1.5
212240P	Magnifying Lens x 2.0
212242P	Magnifying Lens x 2.5

Vortex Shells

PART NO.	DESCRIPTION
236016	Elite Shell, Black (with Air Duct/Head Seal), to suit Vortex
236017	Elite Shell, Inferno (with Air Duct/Head Seal), to suit Vortex
236019	Elite Shell, Joker (with Air Duct/Head Seal), to suit Vortex
236673	Elite Shell, Orange County Chopper (with Air Duct/Head Seal), to suit Vortex



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VORTEX

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X-TREME PROTECTION

with *attitude*

All New Heavy Duty Vortex Welding Respirator Takes Serious Protection To Another Level!



DIGITAL LENS TECHNOLOGY

For the Ultimate Control



Digital Lens Technology...for the ULTIMATE CONTROL!!

**ALL
NEW
X-MODE
Feature!**

Going **DIGITAL** gives you the control to adjust shade, sensitivity and delay settings with absolute precision for any welding job.

4 modes of operation deliver the flexibility to weld, cut and grind - all with one helmet...

Welding Mode

Suitable for most welding applications, the lens starts working when it senses a welding arc. Shades 9 - 13.

Cutting Mode

The mode to use for plasma, laser, gas welding and cutting applications, the lens starts working when it senses a cutting arc. Shades 5 - 9.

Grind Mode

Used for metal grinding applications. The shade is fixed shade no. 3. No lens adjustments are required.

NEW X-Mode

Used for outdoor or low current welding, the lens starts working when it senses weld current. X-Mode uses electromagnetic arc sensing technology to eliminate sunlight interference and obstructed sensors. Shades 9 - 13.

Features...

- 30% larger viewing area than a standard lens for maximum viewing capacity.
- Four independent arc sensors provide continuous arc-sensing capability for your most demanding applications - highly recommended for low amperage TIG! Lens darkening reaction time is 1/20,000 second.
- Magnifying lens holder.
- Bottom-mounted controls for easy access and adjustment.
- 2 year warranty.
- Standards ANSI Z8 1/DIN/TUV/CE.

NEW Digital Controls



1. On/Off Button

3. Digital Display Screen

5. Sensitivity Control Buttons

2. Mode Control Button

4. Variable Shade Control Buttons

6. Lens Delay Control Buttons

X-TREME PROTECTION...

The **Vortex** has been designed for welding environments* where eye and respiratory protection is absolutely essential to keep injuries and ingestion of welding fumes to a minimum.



1. Quick Connection. No More Leaks

A 'twist lock' connection hose design, with an o-ring seal, eliminates air leaks and makes connecting and disconnecting quick and easy.

2. Tough Exterior

A tough outer case acts as a barrier to stop large debris from entering the unit, preventing damage to moving parts and extending the life of the unit.

3. Long-Lasting Filter

With 139,000mm² of useable filter media, the P3 filter is both long-lasting and highly reliable. An airtight seal is delivered by a cushion sealing ring on the filter cartridge – meaning all air passes through the filter media before being delivered to the operator.

4. Minimise Dust Build-Up And Filter Clogging

A heavy duty filter cover with bottom opening, minimises dust build-up and filter clogging, reducing interruptions during a job.

5. Controls At Your Fingertips

The control panel allows easy adjustment and monitoring while welding. All the must have features are at your fingertips:

- An LED battery meter allows you to keep track of remaining power.
- Raised buttons mean it is possible to make adjustments during operation - even with gloves on!
- LED indicators clearly show settings.

6. Be Alerted

Complete with an audible alarm - the user will be alerted to blocked filters or air blockages.

7. Maximum Comfort

The back harness has been designed with user comfort in mind. The harness prevents sagging of the blower unit, keeping the weight of the unit evenly distributed over the entire upper body. This not only maximises comfort, but minimises fatigue when welding for long periods of time.

8. Monitor Air Volume

A flow meter comes standard with the Vortex, allowing the operator to quickly and easily check air volume output at any time. This enables time and money to be saved by eliminating costly premature filter changes, ensuring the life of every filter is maximised.

9. Keep Charged

Fully charged, the lithium ion battery will deliver 8 hours of operation on the low setting, and 6 hours on the high setting. 3 hours is required to fully charge the battery. A compact battery charger comes standard. LED displays indicate the battery status when on charge.

*WIA will not accept responsibility for respiratory protective equipment that is chosen incorrectly. Some welding environments may contain dangerous levels of poisonous gases that are not suitably filtered by a P3 particle filter. Not suitable for environments that contain gaseous particles or an oxygen deficiency. It is the purchasers responsibility to ensure their workplace is tested adequately for fume hazards.

...with
attitude



Maximum Comfort

Comfort is a serious consideration when welding for long periods of time. A lightweight helmet shell, adjustable headgear and heavy duty head seal are essential for user comfort.



Lightweight & Durable

The polyamide nylon shell is both lightweight for maximum comfort and durable for long-lasting performance.

Adjustable Headgear

User comfort is maximised with the ratchet style, fully adjustable headgear, odour absorbing headband and comfort cushion.

Easy Changeover

Quick release Velcro tabs keeps the head seal in place, and allows an easy change by the operator, if required.

Complete Head & Chin Protection

The one piece, heavy duty denim material provides head and under chin protection from dust, fumes and welding sparks. It provides a comprehensive capsule to allow 160 or 200 litres of air per minute delivered from the blower unit to wash gently over the operator's breathing zone.

Heavy Duty Panel

The head seal features a reinforced panel to enhance durability and reduce damage from excessive wear and tear. The head seal is fully washable to keep any build-up of contaminants from entering the air duct or operator breathing zone, and maintain suitable personal hygiene.

WIA and Miller have joined forces to create the Vortex. The Vortex features a high quality respiratory unit, combined with the latest lens technology and shell designs from Miller.



Black - 236001



Joker - 236004



Orange County Chopper - 236671



Inferno - 236002

The Vortex is the only heavy duty respiratory unit available with seriously attention-getting graphics on the helmet shell. Now you can have the ultimate in protection combined with a helmet design with built-in attitude.

Choose the one that reflects your style!

Vortex units are also available without the Auto-Darkening lens assembly.

PART NO.	DESCRIPTION
236006	Black
236007	Inferno
236009	Joker
236672	Orange County Chopper