



XR942H

PANORAMIC WELDING AND GRINDING HELMET



180° Internal Vision

SPARES INFORMATION

STOCK CODE DESCRIPTION

XR942H	True Colour Light Reactive Helmet - Graphite
XR443	Front Cover Lens
XR352	Auto-Darkening Filter Panoramic
XR444	Inside Cover Lens (Main Lens)
XR445	Side Window Cover Lens (Pair)
XR372	Sweatband
XR342	Adjustable Headband
XR373	Head Band Fixing Hand Nuts (Pair)
XR363	3V Battery (Single)

FEATURES

- Panoramic View with Active Darkening Side Windows
- Improved Safety When Moving with the Helmet in the Lowered Position
- True Colour Lens for More Realistic Vision of the Weld
- Exceptional Optical Clarity
- Light Shade 3 for Improved Clarity
- Welding Shades from 4 to DIN 14
- Suitable for MIG, TIG, MMA Grinding and Plasma Processes
- TRS Mode Reduces Fatigue by Gradually Lightening
- Auto Mode Takes the Headache Out of Finding the Right Setting
- Tack Mode Allows for Rapid Tacking with Minimal Delay
- 36 Months Warranty

TECHNICAL DATA

Viewing Area (Main Lens Size)	116mm x 81mm
UV/IR Protection	Permanent Shade DIN 16
Light State	DIN Shade 3
Dark State	DIN Shade 4-14 Variable
Power Supply	Built in Solar Cells and Replaceable Battery
Power On/Off	Fully Automatic
Dark to Light	0.1-1.0 Seconds (External Variable)
Operating Temp	-5°C to +55°C (23°F to 131°F)
Storage Temp	-20°C to +70°C (-4°F to 158°F)
Helmet Material	High Impact Polyamide Nylon
Total Weight	693g
Min Amperage Req	5A

STANDARD

- BS EN 150 16321-1
- BS EN 175
- Impact Rating E (120 m/s)

XR943H FLIP LIGHT REACTIVE WELDING AND GRINDING HELMET

SUITABLE FOR TIG, MIG/
MAG, MMA, GRINDING AND
PLASMA PROCESSES



CR2450 (3V BATTERY)

DIOPTER LENS

STOCK CODE	MAGNIFICATION
LD1050	+1.0
LD1550	+1.5
LD2050	+2.0
LD2550	+2.5
LD3050	+3.0

SPARES INFORMATION

STOCK CODE	DESCRIPTION
XR943H	Flip Light Reactive Welding and Grinding Helmet - Graphite
XR423	Front Cover Lens
XR353	Auto-Darkening Filter (ADF)
XR435	Side Window Replacement Kit inc Obscure Cover
XR433	Grinding Protective Lens (Curved)
XR434	Inside Cover Lens (ADF)
XR342	Adjustable Headband
XR372	Sweatband
CR2450	Battery (Single)
XR373	Head Band Fixing Hand Nuts (Pair)
XR436	Diopter Holder Bracket (Pair)

FEATURES

- Flip Action
- Wide View Grinding Visor
- LCD Display
- True Colour ADF
- ADF Exceptional Clarity and Optical Quality Rated 1/1/1/1 EN 16321
- Variable Shade Control 4-13
- Light Shade 3 for Improved Pre-welding Clarity
- Fatigue Reducing Gradual Lightening
- Highspeed Tacking Mode
- Settings Memory
- Weld, Grind, Cut Modes
- Auto Shade Mode for Easy Setting
- Adjustable Headgear Multiple Rake Positions and Adjustment for a Precise Fit
- Ergonomically Balanced to Increase Comfort
- 36 Months Warranty

TECHNICAL DATA

Viewing Area	108mm x 74mm (4.25" x 3.0")
UV/IR Protection	Permanent Shade DIN 16
Light State	DIN Shade 3
Dark State	Shade 4-8 / 9-13 Variable by External Control
Power Supply	Solar Cells and Built-in Battery
Function	Welding or Grinding Selectable by External Switch
Sensitivity and Delay	Variable by External Control
Switching Time	0.04mS
Light to Dark	0.3-0.9 seconds (External variable)
Dark to Light	-5°C to +55°C (23°F to 131°F)
Operating Temp	-20°C to +70°C (-4°F to +158°F)
Storage Temp	High Impact Polyamide Nylon
Helmet Material	754g
Total Weight	

STANDARD

- EN 16321, EN 175 and EN 166

XR943A POWERED AIR PURIFYING RESPIRATOR FOR PARTICULATE ENVIRONMENTS



WARRANTY

2 YEARS FOR HELMET,
1 YEAR FOR PAPR BLOWER AND BATTERY

XR943 HELMET

STOCK CODE	DESCRIPTION
XR1020	Flip Light Reactive Welding Helmet with Face Seal and Air Duct
XR1021	Air Duct and Internal Diffuser Assembly
XR423	Front Cover Lens
XR353	Auto-Darkening Filter (ADF)
XR435	Side Window Replacement Kit inc Obscure Cover
XR433	Grinding Protective Lens (Curved)
XR434	Inside Cover Lens (ADF)
XR342	Adjustable Headband
XR372	Sweatband
CR2450	Battery (Single)
XR373	Head Band Fixing Hand Nuts (Pair)
XR436	Diopter Holder Bracket (Pair)
XR344	Hose Clip for Headband

PAPR SPARE PARTS LIST

PART NO.	DESCRIPTION	QTY
XR1003	Blower Unit Without Belt (No Filters but with Cover)	1
XR1004	Filter Cover with Purple Catch	1
XR1005	Spark Arrestor	1
XR1006	Carbon Pre-filter	10
XR1007	P3 HEPA Filter	1
XR1008	Comfort Belt with Shoulder Straps	1
XR1109	Flex Air Hose (inc Flame Retardant Cover) 1.05m	1
XR1108	Flame Retardant Hose Cover 1.05m	1
XR1016	Battery Li/ion	1
XR1017	Universal Charger	1
XR1018	PAPR Unit Excluding Helmet	1
XR1001	Nylon Carry Bag	1

TECHNICAL DATA

Air Flow Rate	170 or 220nl/min
Material	PC + ABS
Motor	Brushless
Fuse	Electronic
Battery	Li-ion 14.8V Rechargeable
Battery Charging Time	Approx 2.5h
Charging Cycles	>350
Run Time	11 hour @ 170nl/min 9 hour @ 220nl/min <small>(min fully charged new battery & filter room temp.)</small>
Noise	Max. 60dB(A)
Voltage/Capacity	14.8V/2.2Ah
Pre Filter	Carbon (odour)
Weight	288g (1097g incl. Filter & Battery)
Dimensions	224 x 190 x 70 mm (MAX)
Air Hose Length	850mm
Master Filter Type	P3 TH3P R SL for TH3P System (Europe)
Standards	EN12941:1998/A1:2003/ A2:2008 TH3 P R SL

PAPR FEATURES



FILTRATION

The unit uses a P3 Particulate main filter combined with a carbon odour filter and a mesh spark trap, all of which are user replaceable. The unit is suitable for use in areas without a restricted oxygen supply.

The TH3P filter has a protection factor of 50 and the lifetime of the filter is dependent upon local fume levels. XR943A is a battery powered air purifying respirator for protection against dust and particles.

This system is TH3P certified in accordance with European standard EN12941: 1998/A 1:2004/A2:2008 TH3P

TH3P FILTER APPLICATIONS

- Metal Grinding and Cutting Applications
- Welding of Aluminium by MIG or TIG Processes
- Welding of Stainless Steel by MIG & TIG Processes
- Welding of Steel by MMA, MIG or TIG
- Welding of Zinc Coated Steel by MIG or TIG

FEATURES:

XR943A supplies clean, filtered air to the welder. The blower unit has an electronic control unit that constantly monitors and adjusts the fan to ensure a minimum of 170nl/min air flow.

The same system provides alarms which are visual, audible and vibrate for blocked filters and low battery condition. The battery life is normally more than 11 hours on low setting and 9 hours on high setting, but the condition of the filter can affect this.

The welding helmet has a multi adjustable head band with enhanced support to spread the load evenly on the welder's head.

The unit sits comfortably at the base of the back supported by a belt and shoulder straps.