

XR943A

FLIP-UP WELDING & GRINDING HELMET WITH PAPR

WELDING VISION WITH TH3 RESPIRATORY PROTECTION

A professional true-colour flip-up welding helmet combined with a powered air-purifying respirator. The XR943A uses the XR1020 headtop and a belt-mounted powered filtering unit to supply filtered ambient air to the helmet while retaining the XR943H welding, cutting and grinding controls.

- Flip-up ADF for rapid change from welding to grinding
- True Colour ADF with optical classification 1/1/1/1
- TH3 P R SL powered respiratory protection to EN 12941
- Two-speed powered airflow without changing the certified class



TECHNICAL SPECIFICATION

Product code	XR943A	Product type	Flip-up auto-darkening welding/grinding helmet with powered filtering device
Viewing area	108 × 74 mm	Light state	DIN Shade 3
Cutting range	DIN 4-8, variable	Welding range	DIN 9-14, variable
Optical class	1/1/1/1	UV/IR protection	Permanent DIN Shade 16
Light-to-dark	1/30,000 second (0.000033 s)	Dark-to-light delay	0.3-0.9 seconds, externally adjustable
Power supply	Solar cells and CR2450 3 V battery	Power control	Fully automatic on/off
Operating modes	Weld / Cut / Grind / Auto / TACK	User functions	LCD display, settings memory, gradual lightening
Operating temperature	-5°C to +55°C	Storage temperature	-20°C to +70°C
Helmet material	High-impact polyamide nylon	Total weight	754 g
Colour	Graphite grey	Headgear	Adjustable; multiple rake positions and fore/aft adjustment
Respiratory Class	TH3 P R SL	Headtop	XR1020 Flip Light Reactive Welding Helmet with Face Seal & Air Duct
Respiratory Standard	EN 12941:1998 + A2:2008	PPE Category	Category III
Air Supply	Belt-mounted powered filtering	Airflow Control	Two Speeds
Breathing Hose	Polyurethane PA66 bayonet connection	Particle Filtration	P3 activated Carbon

PERFORMANCE AND USER BENEFITS

- FLIP-UP FRONT** Lift the ADF assembly to expose the wide clear visor for grinding, inspection and preparation while retaining full-face coverage.
- TRUE COLOUR / 1-1-1-1** High optical quality improves colour recognition, weld-pool definition and consistency of vision across the viewing area.
- PROCESS CONTROL** Dedicated Weld, Cut and Grind modes, with Auto Shade and external adjustment, support fast changes between common fabrication tasks.
- TACK MODE** High-speed tacking control is designed for repeated short welds and provides rapid lightening between each weld.
- GRADUAL LIGHTENING** A controlled return toward the light state reduces abrupt brightness changes and can lessen visual fatigue.
- SETTINGS MEMORY** Saved settings help the operator return to frequently used configurations quickly.
- TH3 POWERED AIR** The belt-mounted turbo supplies filtered ambient air to the XR1020 headtop through a polyurethane breathing hose.
- SPEED AIRFLOW** Two selectable airflow speeds are provided without changing the certified TH3 class.

APPLICATIONS AND SETTINGS

Suitable applications	Important limitations
• TIG welding • MIG/MAG welding • MMA/stick welding • Plasma cutting • Grinding and weld preparation • Welding environments requiring particle respiratory protection within the certified TH3 P R SL scope	• Select shade to suit process and current. • Not for laser welding/cutting or gas welding/cutting. • Respiratory protection is for particles within the certified EN 12941 TH3 P R SL configuration; use only approved filters, hose, turbo and XR1020 headtop. • Do not use damaged lenses, shell, controls, headgear or respiratory components.

REPLACEMENT PARTS AND ACCESSORIES

Code	Description	Code	Description
XR423	Front cover lens	XR353	Auto-darkening filter (ADF)
XR435	Side Window Replacement Kit inc. Obscure Cover	XR353	Curved grinding protective lens
XR434	Inside Cover Lens (ADF)	XR342	Adjustable headband assembly
XR372	Sweatband	XR373	Hand nuts and aide adjuster (pair)
XR436	Diopter holder brackets (pair)	CR2450	3 V replaceable battery
XR1003	Powered turbo unit with battery and warning facility	XR1007	Particle filter P3 HEPA
XR1109	Polyurethane breathing hose with PA66 Bayonet connection (inc. Flame retardant Cover 1.05m)	XR1005	Stainless-steel spark arrester
XR1108	Flame Retardant Cover 1.05m		

STANDARDS, CONFORMITY AND MARKING

XR943A is EU type-examined as Category III PPE: a powered filtering device incorporating a helmet, class TH3 P R SL, to EN 12941:1998 + A1:2003 + A2:2008. EU Type-Examination Certificate No. 0082/0929/079/11/25/0401 identifies XR943A with the XR1020 head top . Helmet/ADF functions are based on the XR943H platform information; confirm the current Declaration of Conformity and exact production markings before controlled compliance claims.

Care: Inspect the helmet, clear visor, ADF, cover lenses, sensors, headgear, turbo unit, battery, breathing hose, filter, prefilter and spark arrester before use. Replace damaged components and use only the approved XR943A configuration. Keep optical and respiratory components clean and dry and follow the current user instructions.

MANUFACTURER AND TECHNICAL SOURCES

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