



Dräger X-plore® 8000 Welding Visors Head Pieces for PAPR

Regardless of whether you are dependent on ambient air or working independently, the welding visors are an integral part of our X-plore® 8000 powered air-purifying respirator system.

Dräger X-plore® 8000 Welding Visors



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Benefits

Designed for maximum compatibility

The welding visors are combined either with a X-plore® 8500 powered air-purifying respirator for applications dependent on the ambient air.

Suitable for various application areas

Dräger X-plore® 8000 Welding Visors provide effective protection against sparks and weld splatter, as well as harmful light rays generated during welding.

They are used during machining, grinding and cutting works, metal repairs and welding but can also be found in various other areas.

X-plore® 8000 welding visors are ideal for use in the following scenarios: shielded metal arc (stick) welding; tungsten inert gas (TIG) welding; metal inert gas (MIG) welding / metal active gas (MAG) welding; plasma cutting/welding; grinding; oxy-fuel welding/cutting.

They are not suitable for use during laser beam welding.

Benefits of the X-plore® 8000 Welding Visor Standard

With the X-plore® 8000 Welding Visor Standard, you can conveniently switch the ADF to grinding mode by simply pressing the button on the outside of the visor.

The slim, heavy-duty visor is equipped with a durable, flame-retardant chin and neck closure. The diffused breathing air and an individually adjustable headband ensure a comfortable wearing feeling and optimal fit during your work.

The Automatic Darkening Filter (ADF) module has a dual power supply via solar cell and battery with a battery life of up to 2,200 hours. A warning light lights up on the ADF module to indicate when the battery is running low.

Set the ADF module's shade state according to your application: state 4 for grinding, 5-8 for cutting and 9-13 for welding.

Benefits of the X-plore® 8000 Welding Visor Premium

The X-plore® 8000 Welding Visor Premium features a hinged automatic welding protection screen. Simply flip up the screen to switch between the welding shield and the inner transparent visor, which is ideal for all pre- and post-processing work as well as grinding applications.

You can individually adjust the strap system to ensure the visor fits comfortably and securely. Darkened side windows provide an extended field of vision of the work area. If required, the side windows can be optionally covered. The heavy-duty visor is equipped with a durable, flame-retardant chin and neck closure.

The ADF module of the X-plore® 8000 Welding Visor Premium features a dual power supply (solar cell and batteries) with a long battery life of up to 2,800 hours. A digital display indicates the battery life.

Set the ADF module's shade state according to your application: state 4 for grinding, 5-8 for cutting and 9-13 for welding.

Darkening stages for various welding processes in accordance with EN 379

X-plore® 8000 Welding Visors_graphic_en-1

Welding processes	Current in amperes																							
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600			
MMAW (coated electrodes)	8							9	10			11			12			13			14			
MAG	8							9	10			11			12			13			14			
TIG				8	9			10			11			12			13							
MIG								9	10			11			12			13		14				
MIG welding for light metals										10			11			12			13		14			
Air arc gouging	10												11	12			13			14		15		
Plasma beam cutting									9	10	11	12			13									
Micro plasma welding	4	5	6		7	8	9	10			11			12										

Recommended shade states for welding processes according to ANSI Z49.1

Welding processes	Electrode size (in. [mm])	Current in amperes	Minimum shade state	Recommended shade state ¹⁾
Manual metal arc welding	>3/32 [2.4]	<60	7	-
	3/32 to 5/32 [2.4 to 4.0]	60 to 160	8	10
	3/32 to 5/32 [2.4 to 4.0]	160 to 250	10	12
	>1/4 [>6.4]	250 to 550	11	14
Gas-shielded welding and flux-cored welding		<60	7	-
		60 to 160	10	11
		160 to 250	10	12
		250 to 550	10	14
Tungsten inert gas welding		<50	8	10
		50 to 150	8	12
		150 to 500	10	14
Air-carbon arc cutting				
	light	>500	10	12
	heavy	500 to 1000	11	14
Plasma welding		<20	6	6 to 8
		20 to 100	8	10
		100 to 400	10	12
		400 to 800	11	14
Plasma cutting ²⁾		<20	4	4
		20 to 40	5	5
		40 to 60	6	6
		60 to 80	8	8
		80 to 300	8	9
		300 to 400	9	12
		400 to 800	10	14
Brazing		-	-	3 or 4
Soldering		-	-	2
Carbon-arc welding		-	-	14

X-plore®-8000_Welding_Visors_graphic

¹⁾ Rule of thumb: Start with a higher shade state and then select lower shade state until the view of the welding zone is sufficient without falling below the minimum shade state. During oxy-fuel welding or cutting, the welder produces a strong yellow light. Here it is recommended to use a protective welding filter that absorbs the yellow light of the visible spectral range.

²⁾ These values apply when the arc is clearly visible. Based on our experience, we have found that you can select lower shade states when the arc is obscured by the workpiece.

Recommended shade states for welding processes according to ANSI Z49.1

X-plore® - 8000 Welding Visors_graphic_en-4

Welding processes	Workpiece thickness (in.)	Workpiece thickness (mm)	Recommended shade state
Oxy-fuel welding			
Thin	< 1/8	< 3.2	4 or 5
Medium	1/8 to 1/2	3.2 to 12.7	5 or 6
Thick	> 1/2	> 12.7	6 or 8
Oxy-fuel cutting			
Thin	< 1	< 25	3 or 4
Medium	1 to 6	25 to 150	4 or 5
Thick	> 6	> 150	5 or 6

System Components



D-9951-2024

Dräger X-plore® 8000

Challenging workplace conditions demand reliable solutions. The Dräger X-plore® 8000 powered air-purifying respirator offers a new level of intuitive handling combined with intelligent electronics that provide the high degree of safety your people need to focus on the task at hand.

Related Products

D-9105-2023



Dräger X-plore® 8000 Helmets

Helmet options in the Dräger X-plore® 8000 series provide combined head and respiratory protection with high comfort. Different lengths and materials for the neck seal allow quick and easy adaptation to specific applications. Most helmets are compatible with all powered air-purifying respirators in the Dräger X-plore® 8000 series and the Dräger X-plore® 9300 airline device.

D-3434-2023



Dräger X-plore® 8000 Face Shield

The Dräger X-plore® 8000 face shield provides effective protection for the eyes and entire face. As an integral part of the X-plore® 8000 series, it is compatible with X-plore® 8000 powered air purifying respirators.

D-12004-2024



Dräger X-plore® 8000 Hoods

The Dräger X-plore® 8000 hoods are essential components for the X-plore® 8000 powered air-purifying respirators for ambient air applications and are also compatible with the Dräger X-plore® 9300 airline device for independent air supply applications. The hoods are available in various lengths and offer light and comfortable protection with the highest safety level for open headpieces.

D-15897-2024



Dräger X-plore® 8000 Head Pieces with Hood

The Dräger X-plore® 8000 helmet/bump cap and hood combination provides reliable protection in heavily polluted or contaminated environments. The combination of head protection and hood is an integral part of our Dräger X-plore® 8000 powered air-purifying respirator systems and our Dräger X-plore® 9300 compressed air line device.

Technical Data

Dräger X-plore® Welding Visors

Models	X-plore® 8000 Welding Visor Standard	X-plore® 8000 Welding Visor Premium
Respiratory protection approval	NIOSH 42 CFR Part 84 EN 12941 – TH3 in combination with Dräger X-plore® 8500	NIOSH 42 CFR Part 84 EN 12941 – TH3 in combination with Dräger X-plore® 8500
Eye protection approval	EN 175:1997 ANSI/ISEA Z87.1 Outer front screen: EN 166:2001 ANSI/ISEA Z87.1 ADF module: EN 379:2003+A1:2009 ANSI/ISEA Z87.1 CSA Z94.3 AS/NZS 1338.1	EN 175:1997 ANSI/ISEA Z87.1 Outer front screen: EN 166:2001 ANSI/ISEA Z87.1 ADF module: EN 379:2003+A1:2009 ANSI/ISEA Z87.1 CSA Z94.3 AS/NZS 1338.1

Material

Visor material	PA	PA
Face cuff	Flame-resistant cotton	Flame-resistant cotton
Sweatband/padding	Polyester	Polyester
ADF	Laminated glass	Laminated glass
Head harness	PA	PA
Air distribution	HD PE	HD PE
Protective screen (outer/inner)	PC	PC

Dimensions

ADF	133 x 114 x 9 mm (5.2 x 4.5 x 0.35 in)	156 x 123 x 33 mm (6.1 x 4.8 x 1.3 in)
ADF field of vision	95 x 85 mm (3.7 x 3.3 in)	107 x 75 mm (4.2 x 2.9 in)
Outer front screen	133 x 114 mm (5.2 x 4.5 in)	108 x 160 mm (4.2 x 6.3 in)
Inner front screen	94 x 90 mm (3.7 x 3.5 in)	80 x 107 mm (3.1 x 4.2 in)
Head circumference of the support ring	52 cm to 64 cm (20.5 x 25.1 in)	51 cm to 62 cm (20.1 x 24.4 in)

Shade states

Grind mode switch	Outer button (shade state 4)	Flip-up automatic weld protection screen
Shade state (inner)	5-8 / 9-13	4 / 5-8 / 9-13
ADF setting range delay	0.1-1.0 s	0.1-1.0 s
ADF shading time	0.04 ms	0.04 ms
Switch time (light-dark)	1/25,000 s	1/25,000 s
Total weight	650 g (22.9 oz)	950 g (33.5 oz)
ADF module weight	175 g (6.2 oz)	190 g (6.7 oz)
Colour	black	black
Batteries	1 x CR2450	2 x CR2450
Air inflow	Rear	Side rear
Air distribution	Overhead air duct	In front of mouth area
Air outflow	diffused	diffused
Operating temperature	10 °C to +55 °C (14 °F to 131 °F)	10 °C to +55 °C (14 °F to 131 °F)
Storage temperature	-20 °C to +70 °C (-4 °F to 158 °F)	-20 °C to +70 °C (-4 °F to 158 °F)

Ordering Information

Head pieces

X-plore® 8000 Welding Visor Standard	3728190
X-plore® 8000 Welding Visor Premium	3728195

Spare parts

Face seal standard	3728191
Face seal premium	3728197
Headgear standard	3728178
Headgear premium	3728198
Visor shell standard	3728182
Visor shell with air duct premium	3728200
Rubber frame standard	3728183
Outside cover lens standard	3728184
Outside cover lens premium	3728189
Inside cover lens standard	3728186
Inside cover lens premium	3728192
Lens holder standard	3728187
Grind lens holder premium	3728193
Set sweatband & soft pad standard	3728179
Set sweatband & soft pad premium	3728199
Grind lens anti-fog premium	3728194
Side lens cover premium	3728196
Set ADF & outer + inner cover lens standard	3728181
Set ADF & outer + inner cover lens premium	3728201
Front lens holder premium	3728188

Dräger X-plore® 8000 Blower Unit

Dräger X-plore® 8500	R59500
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Dräger X-plore® 8000 Breathing hoses

Dräger X-plore® 8000 Standard hose*	R59620
Dräger X-plore® 8000 Flexible hose*	R59600
Dräger X-plore® 8000 Hose cover, Spark Proof	R59660

* Combination with the X-plore® 8000 hose cover is mandatory when used with the welding visors.

Dräger X-plore® 8000 Carrying system

Dräger X-plore® 8000 Welding belt	R59720
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