The all new

PANDRAMAXX Series

Maxximize your horizon.

CLT

Ednorana XI

QUATTRO



2.5

SEE WHAT YOU CAN DO

The light at the end of the tunnel. The new panoramaxx series.

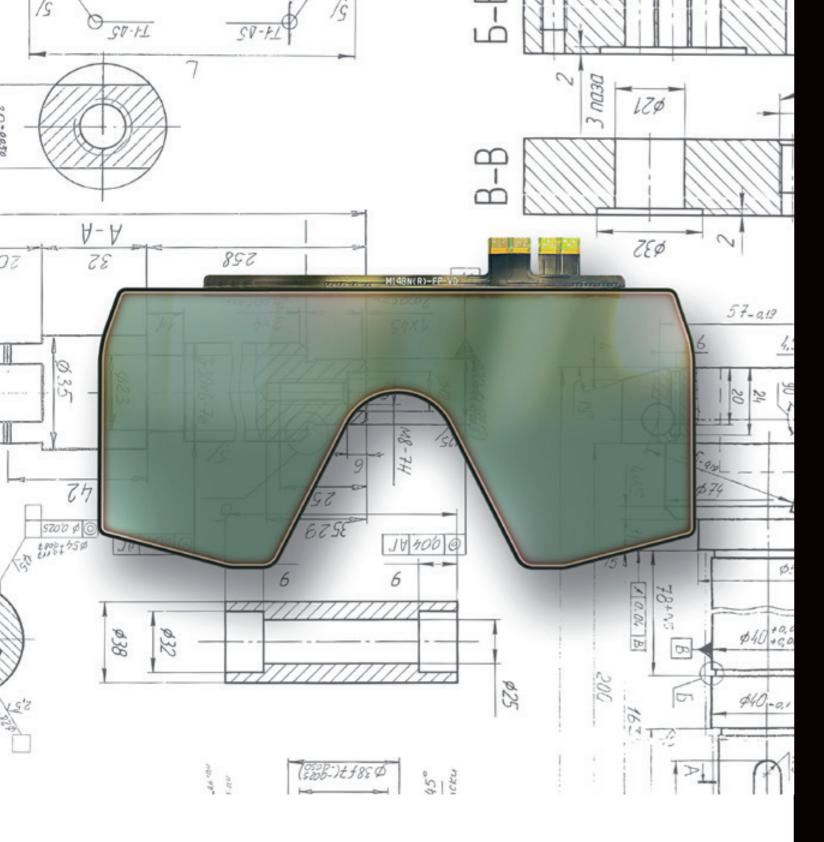
The only common ground with conventional welding helmets is that it is still a welding helmet.

Sight gives you the freedom to do what you want. Switch from
tunnel view to panoramic view. The new panoramaxx seriesThe result is the new panoramaxx series - whose only com-
mon ground with conventional welding helmets is that it is
still a welding helmet.things that seemed unimaginable in the past.The result is the new panoramaxx series - whose only com-
mon ground with conventional welding helmets is that it is
still a welding helmet.

As multi-layered and complex as the joining technology is, With the new panoramaxx series, optrel is keeping its promise to give welders a better working day. The focus is not on the problem, but on finding a solution – we have thrown all conventions overboard and redesigned As multi-layered and complex as the joining technology is, welders' personal preferences with regard to health and safety equipment are just as varied. Instead of developing a welding helmet for all possible applications, which mean welders have to accept many compromises, the new panoramaxx series focuses on individuality.

The focus is not on the problem, but on finding a solution – we have thrown all conventions overboard and redesigned the welding helmet from scratch. The new panoramaxx series combines the latest technology and best materials with the latest findings in work physiology and ergonomics.

optrel's new panoramaxx series comprises three models and is aimed at ambitious welding professionals who want to weld the best weld seam of their life every time. Maximum field of vision and the razor-sharp visual impression on the weld seam are prerequisites for welders to achieve their noble objective.



Closer. Further ahead.

A nose cut-out changes everything.

Without a doubt, the nose is one of our most important organs and takes our senses into the fifth dimension. But when it comes to enlarging the welder's field of vision by positioning the anti-glare display, ergonomically optimal, closer to the eye, the nose gets in our way.

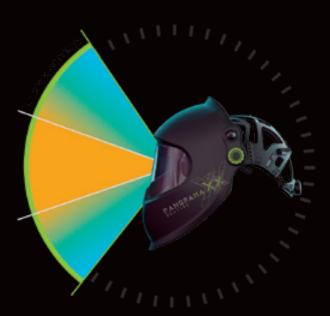
So we threw all conventions overboard and dared Our pragmatic approach is so new and innovative the technological chin-up to give the display a that several patents have been granted for it - and nose cutout. The result is impressive. More than guarantees its uniqueness.

For comparison: A conventional ADF without nose cut-out would have to have a size of 180 x 120 mm (W x L) to achieve the same field of view as the panoramaxx Series.



Industry standard optrel panoramaxx field of vision

600% enlargement of the field of view without increasing the weight and shape of the welding helmet. The practical additional benefit is, due to the clear separation from the mouth area, you no longer breathe on the display and thus prevent the anti-glare window from tarnishing.



ΡΑΝΟΡΑΜΑΧΧΞ. 5

PANDRAMA

Very big cinema. You decide on the movie.





Light level

Welcome to the top league. The panoramaxx2.5 combines the enormous field of vision with optrel's well-known 2.5 technology and offers excellent visibility in every working situation - whether for welding, cutting, grinding or straightening work. Whatever you want, the optrel panoramaxx2.5 automatically follows your versatile field of activity.









"After completing my apprenticeship as a metalworker, I have decided I want to work with professional equipment. I simply love the versatility of my job. Welding, grinding, straightening. The panoramaxx2.5 is as versatile as my field of activity. The sublime field of vision helps me to master the various tasks easily and safely."

Luke, 23 years

. optrei

/ Working as a metall worker in a small company / Playing guitar in a punk-rock band in his spare time / Loves it when no day is like the other

PANORAMAXX 2.5

As versatile as you.





PANDRAMAXX QUATTRO

PANDRAMA

by the best test mark of 1 according to the EN 379 standard, The panoramaxx quattro was developed for use in heavy metal construction, where work is often carried out with a lot guarantees that panoramaxx quattro welders always have of energy and in a wide variety of welding positions. Espethe best view of the welding process without manual adjustcially in constrained positions, there is no straight view of the ment of the protection level. This results in uninterrupted and welding point. Perfect viewing angle dependence, confirmed fatigue-free working and improved performance.

One helmet. Four top marks.



DIN EN 379 1/1/1/1









The best view in all positions.

Alex, 49 years

/ Working for a leading construction machinery manufacturer / At weekends making tours on his customized chopper / The harder the welding job, the better / Loves to have 300 ampere on his welding machine

"I weld complex structures in steel construction. Given that the heavy components cannot be moved, I have to weld a lot in constrained positions. Then in these positions, I always had uneven brightness levels in the corners of the ADF. These differences are completely gone in the new quattro. And thanks to the large field of vision, I can move safely through the structures and work without interruption. The panoramaxx quattro gets right to the point."

PANDRAMAXXCLT

The world famous Crystal Lens Technology 2.0 is now also The colour perception in the light state comes very close to available in the panoramaxx clt version. optrel engineers the view through the clear window glass and in the dark state have thus once again pushed the limits of what is possible to you get a detailed and high-contract view of the welding pool in a clarity never seen before. Unlock your true potential a new level. - with the panoramaxx clt.

Anyone who has ever welded with CLT technology will barely be able to believe their eyes.

You will not believe your eyes.



PANDRAMA XXX

PANDRAMA XX









"I weld safety-related components made of stainless steel using the TIG process. Every weld needs to fit right away, otherwise it will be very expensive. Control over the weld pool and the uncompromising clear view of the colour gradient is absolutely crucial for me. That's why I decided on the panoramaxx clt."

Karl-Friedrich, 46 years

- / Works in pipeline construction for a large chemical company
- / Passionate hobby parachutist
- / Every new weld should be the best of his life

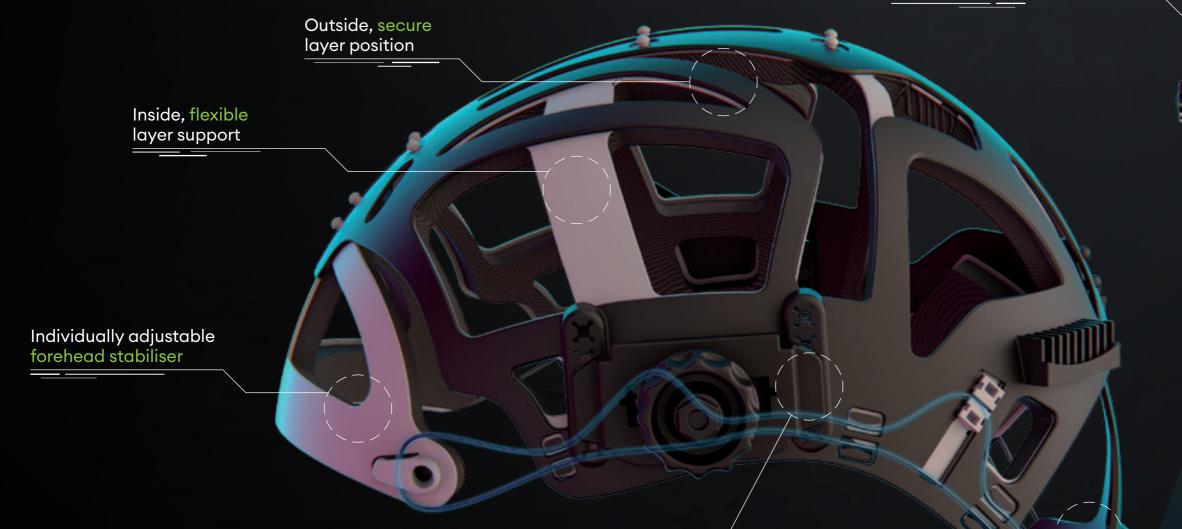


Crystal clear view of the welding pool.

Comes with every optrel panoramaxx helmet as standard.

The optrel IsoFit® headgear sets a new standard in terms of wearing comfort. It is the only product worldwide that can be adjusted in width, length and height – i.e. three-dimensionally – to any head shape, so that the helmet really fits "like a glove". panoramaxx 2.5, quattro and clt all come with this headgear as standard.

Large, replaceable comfort pad to make wearing it pleasant offers 100% more contact surface for perfect weight distribution



Individually height adjustable Individually adjustable stabiliser for the back of the head

OPTREL ISOFIT HEADGEAR

Just fits perfectly.



Precise and infinitely adjustable cable pull system for a perfect fit.

With a quick release function to allow it to be opened immediately in milliseconds

The optrel panoramaxx as a personal assistance system.

Fully equipped as standard.

In addition to the large field of vision and crystal-clear optics, which form an actual assistance system, all members of the panoramaxx series are equipped with the latest digital electronics. The patented Shadetronic and Fadetronic technologies in combination with the 5-point sensor system and the re-charge energy concept are the core elements.

They enable welders to focus on their work and allow them to work without interruption. This results in quality and efficiency. Thanks to the ergonomic design of the perfectly fitting optrel IsoFit® headgear, the panoramaxx is light as a feather and fatigue-free. All panoramaxx welding helmets are highly robust at the lowest weight and protect users against external mechanical impacts such as high speed particles which hit the helmet at up to 120 m/s. And thanks to grinding mode, which can be easily operated externally, and the incomparable appearance, even grinding work is more fun.



ShadeTronic[®]

The patented optrel ShadeTronic® technology automatically adjusts the protection level to the changing light conditions of the welding arc. This allows welders to work without interruption. A sophisticated Shadetronic sensor continuously measures the light intensity of the welding arc and regulates the glare protection progressively and fully automatically.



FadeTronic

With the patented optrel Fadetronic technology, the opening of the anti-glare display can be continuously adjusted after welding. The unpleasant afterglow is faded out - especially for high ampere applications. Eye fatigue is significantly reduced thanks to the display opening smoothly and being adapted to the eye.



rechargab**l**e

5-point detection

environment is protected.

optrel re-charge

The unique and environmentally-friendly

optrel re-charge energy concept ensures

that welding helmets always have enough

a rechargeable lithium-polymer battery is

energy. Thanks to the latest solar technology,

recharged either by the welding light or by the

ambient light. In addition, the battery can also

be charged directly with any USB charger via

a micro-USB interface. The tiresome changing

of batteries is no longer necessary and the

The optrel 5-point detection integrated in the panoramaxx series is an intelligent sensor control with five sensors. Sophisticated software and clever positioning of four sensors at the corners and one sensor in the upper centre ensures the glare shield is switched on and off perfectly, even in the most difficult lighting conditions and in constrained positions, as well as permanent dark level adjustment (Shadetronic®, patented) during welding.

The optrel e3000X blower respiratory protection system.

Professional respiratory protection is a must in most working environments.



optrel respiratory protection systems are uncompromisingly designed for professional use. The optrel e3000X with TH3 particle filter of the highest safety level filters 99.8% of harmful particles out of the air.

During arc welding, grinding and many other dust-intensive activities, your airways are always exposed to harmful smoke. FF XA dust and often toxic gases. Wearing a personal respiratory protection system is therefore essential - no matter how well ventilated your working environment may be.

- Provides reliable protection against smoke, aerosol and dust
- Can be extended to include an A1B1E1 gas filter
- Automatic air flow control and adjustment
- Can be extended to include an activated carbon odour filter

Grinding mode

Like most optrel welding helmets, the products in the panoramaxx series have a grinding mode. It can be conveniently operated externally by means of a robust and well-protected pressure switch. Once activated, the anti-glare display remains deactivated, which guarantees trouble-free grinding work. At the touch of another button, the glare shield is then immediately ready for welding work. Your optrel welding helmet becomes a true multifunctional work safety device.

Product comparison

Extended panoramic field of

ShadeTronic[®] (fully automatic

Suitable for welding overhead

and in a constrained position

protection level adjustment

with individual calibration

vision

option of ± 2)

Ampere range

Light level

FadeTronic

Grinding mode

Power supply

Sensor system Sensitivity

Switching time

Gross weight

Areas of application

Scope of supply

Standards

Warranty

Dimensional stability Eye protection Resistance against

energy impact, helmet shell Operating temperature Storage temperature

EN 379 classification

			rioddet		
		D	Welding heli	mets and accessories	Art. no.
PANORAMAXX	PANDRAMAXX	PANDRAMAXX	10m	optrel panoramaxx2.5 welding helmet (SN 2.5/5-12 ShadeTronic®) – black	1010.000
2.5	QUATTRO	CLT	6	optrel panoramaxx2.5 fresh air helmet (SN 2.5/5-12	4441.660
X	×	X	1 Provention	ShadeTronic [®]) - black	4441.000
X	X	X	De	optrel panoramaxx quattro welding helmet (SN 3/4-13 ShadeTronic®) – black	1010.100
X	X	X	63	optrel panoramaxx quattro fresh air helmet (SN 3/4-13	4441.760
Up to 280 A	Up to 350 A	Up to 280 A		ShadeTronic [®]) – black	4441.780
Protection levels 5-12	Protection levels 4-13	Protection levels 4-12			
2.5	3.0	2.0	1	optrel e3000X blower respiratory	
X	X	X		protection system with 18h Power	4553.000
1/1/1/2	1/1/1/1	1/1/1/2		battery and bag	
X	X	X	ALL AND DECIDENT		
	ls, Li-polymer battery, can be ch				
	able, battery life 300 to 500 cho				
Five sensors	Five sensors	Five sensors			
Continuously	adjustable, new with "Super Hig	gh" sensitivity			
Light to dark:	Light to dark:	Light to dark:		and the second second	
0.090 ms at 20°C	0.090 ms at 20°C	0.090 ms at 20°C			
0.070 ms at 55°C	0.070 ms at 55°C	0.070 ms at 55°C		S	5
Dark to light:	Dark to light:	Dark to light:			B ALL
0.1 s to 2.0 s (with FadeTronic)	0.1 s to 2.0 s (with FadeTronic)	0.1 s to 2.0 s (with FadeTronic)			STALLS
	ask: up to 220 °C, viewing pane:				RES
Ultraviolet/infrared protectio	on: Maximum protection over the	e entire protection level range			all'
B (Impact at medium energy	r, resistance to a ball with a diam	neter of 6 mm, 0.86 g, 120 m/s)			
A CALL AND IN COMPANY	-10°C to + 55°C/ 14°F to 131°F				3
	-20°C to + 70°C/ -4°F to 158°F			3	
575g (20.3 oz) /	575g (20.3 oz) /	silver 610g (21.5 oz) / PAPR 780g (27.5 oz)			
PAPR 745g (26.3 oz)	PAPR 745g (26.3 oz)	black 600g (21.2 oz) PAPR 770g (27.2 oz)	R		TRAN
Shielded Arc Welding, GMAN TIG Welding (TIG, GTA	es: Electrode welding (Stick Weld W) / GMAW High Performance W W) / Plasma Welding / Plasma C ing Mode / Not suitable for gas	/elding / Filler Wire Welding / Cutting / Gas Welding /	F		Record
and the second of the second sec	ng instructions, storage bag, mi viewing pane, warranty card		1	Λ	
CE, ANSI, EAC, AS/NZS.	compliant with CSA Z94.3, addit	ionally with PAPR version			
	TH3) and suppliedair version EN			7	22.32
	h pr ISO 16321 standard "WIG+" (State.
	ear warranty extension (battery vithin the first 6 months at <mark>regis</mark> t				

Products

Welding helmets and accessories



optrel panoramaxx clt welding helmet (SN 2/4-12 ShadeTronic®) – black



optrel panoramaxx clt welding helmet (SN 2/4-12 ShadeTronic[®]) – silver



optrel panoramaxx clt fresh air helmet (SN 2/4-12 ShadeTronic®) – black



optrel panoramaxx clt fresh air helmet (SN 2/4-12 ShadeTronic®) – silver



optrel backpack for helmets

Art. no.

1010.200

1010.201

4441.780

4441.781

8000.100



Spare parts and accessories

1 Viewing pane (5x)

4

- 2 Nose protection pads (2x)
- 3 Inside cover pane (5x)
- 4 IsoFit® headgear, black, black buttons IsoFit® headgear, black, green buttons IsoFit® headgear, black, grey buttons

6

- 5 Replacement pads for Tricot pad suitable for optrel IsoFit® headgear (5x, each consisting of 4 parts)
- 6a Head and neck protection, leather
- 6b Head and neck protection fresh air helmet, leather
- 7 Chest protection, leather

Item no.

- 5000.270 5003.600 5000.010
- 5003.290
- 5003.291 5003.292
- 5004.290

4028.016 4028.031

4028.015

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