# Product range WELDING PROTECTION

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PROTECTING PROFESSIONALS

H

# TO PREVENT WORK FROM BECOMING A HEALTH RISK, WE MAKE LIFE EASIER FOR EVERYONE WHO LOVES WELDING.

Marco Koch, President of optrel AG

### FULL OF INNOVATIONS AND OPPORTUNITIES. WELDING HELMETS AND CUTTING HELMETS FROM OPTREL.

Modern welding helmets have many features that go far beyond simple glare protection. A crystal-clear view of the weld seam, pure colours and super-lightweight helmet designs are just a few examples.

With innovative welding helmets from optrel, you always work efficiently, comfortably and – above all – safely.

### HELIX QUATTRO

Hard work never felt so easy.

6 option



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FADETRONIC

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reddot winner 2023 best of the best





SLIDE-UP HELMET



PANORAMA FIELD OF VIEW



TOP MARKS IN ALL FOUR CATEGORIES



4<12

in m



SHADETRONIC<sup>®</sup> PROTECTION LEVELS 4–14<u>\*</u>



FIVE-POINT DETECTION



OPTREL RE-CHARGE



ISOFIT<sup>®</sup> HEADGEAR



RESPIRATORY PROTECTION

#### A HARD-WORKING MACHINE FOR HARD WORKING CONDITIONS.

With **helix quattro**, optrel offers a welding helmet for working under the most difficult conditions. A slide-up helmet with internal ADF that has all the technical features of an optrel helmet, combined with sight protection for any accompanying work. With an EN 379 optical classification of 1/1/1/1 for optimum protection at lateral viewing angles and a maximum protection level of 14\*.

The integrated, slide-up ADF minimises the weight and torques, providing the best possible relief for your neck.

The optrel helix series is available with integrated IsoFit® headgear as standard and optionally with an additional hardHat in line with industry standard EN 397.



→ All info, accessories and replacement parts

Helmet system		Item no.		
	<b>optrel helix quattro</b> welding helmet black, IsoFit <sup>®</sup> headgear, optrel EN 397 hardHat, black	1050.100		
4		4441 040	Technical data	
	optrel helix pure air quattro	4441.940	Protection levels	3-13/4-14*
22.	welding helmet black, IsoFit® headgear, optrel EN 397 hardHat, black		Brightness level	Open: 1.0/ closed: 3.0/4.0*
			Adjustment	ShadeTronic® or m
	<b>optrel helix quattro</b> welding helmet black, IsoFit® headgear	1050.110	Activation	Automatic on/off, sleep mode
			Power supply	Solar cells, lithium chargeable via m battery service life charging cycles
			Sensitivity	Individually adjus <sup>.</sup>
	Ready-to-weld package helix quattro with <b>swiss air</b> PAPR	4600.150	Switching time	Bright to dark: 0.090 ms at 23 °C 0.070 ms at 55 °C
	WILL SWISS UIL FAFK			Dark to bright: 0.1 s to 2.0 s (with I
Ale	Ready-to-weld package	4550.610	Classification EN 379	1/1/1/1
	helix pure air quattro		Operating temp.	-10 °C to +55 °C
	with <b>e3000X</b> PAPR		Storage conditions	Dark environment
Constant of the second se			Total weight	620 g

\* with additional protection lens SN+1

helix ser<u>ies</u>

n polymer battery, nicro USB cable, ēe 300 to 500

FadeTronic)

### HELIXCLT

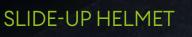
6 option

Hard work never felt so easy.



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HELIX



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PANORAMA FIELD **OF VIEW** 



**FIVE-POINT DETECTION** 







**OPTREL RE-CHARGE** 

**ISOFIT® HEADGEAR** 







**CRYSTAL LENS TECHNOLOGY WITH BRIGHTNESS LEVEL 2.0** 







SHADETRONIC® **PROTECTION LEVELS 4-12** 



**RESPIRATORY PROTECTION** 

#### HIGH PERFORMANCE MEETS PERFECT BRIGHTNESS AND COLOUR.

The helix CLT combines a slide-up helmet and internal ADF with the brightness and natural colour view of crystal lens technology. The CLT offers unrivalled brightness amongst welding helmets worldwide and ensures an outstanding visual and working experience. It provides you with the perfect basis for comfortable and easy work.

The integrated, slide-up ADF minimises the weight and torques, providing the best possible relief for your neck.

The optrel helix series is available with integrated IsoFit® headgear as standard and optionally with an additional hardHat in line with industry standard EN 397.



→ All info, accessories and replacement parts

#### **Helmet system**

Item no.

4550.620



1050.200 optrel helix CLT welding helmet black, IsoFit<sup>®</sup> headgear, optrel EN 397 hardHat, black



4441.960 optrel helix pure air CLT welding helmet black, IsoFit<sup>®</sup> headgear, optrel EN 397 hardHat, black



1050.210 optrel helix CLT



Ready-to-weld package 4600.160 helix CLT with **swiss air** PAPR



Ready-to-weld package helix pure air CLT with **e3000X** PAPR

**Technical data** 4-12 Brightness level Open: 1.0/closed: 2.0 Adjustment ShadeTronic<sup>®</sup> or manual Activation Automatic on/off, sleep mode Power supply Solar cells, lithium polymer battery, chargeable via micro USB cable, battery service life 300 to 500 charging cycles Individually adjustable Switching time Bright to dark: 0.090 ms at 23 °C 0.070 ms at 55 °C Dark to bright: 0.1 s to 2.0 s (with FadeTronic) Classification 1/1/1/2 EN 379 -10 °C to +55 °C Operating temp. Dark environment Storage conditions Total weight 640 g

### HELIX 2.5

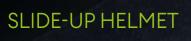
6 option

Hard work never felt so easy.



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HELIX

2.5



PANORAMA FIELD **OF VIEW** 



**BRIGHTNESS LEVEL 2.5** 







SHADETRONIC® **PROTECTION LEVELS 5-12** 



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FIVE-POINT DETECTION

### OPTREL RE-CHARGE

FADETRONIC

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**ISOFIT® HEADGEAR** 



**RESPIRATORY PROTECTION** 

#### HIGH PERFORMANCE MEETS PERFECT BRIGHTNESS AND COLOUR.

With the **helix 2.5**, you get a slide-up helmet with internal ADF that offers all the advantages of the helix series in terms of comfort and low weight. An ADF with a protection level range from 5 to 12 covers most welding applications. It offers a brightness level of 2.5 and a clear view of all other work processes with the visor pushed up.

The integrated, slide-up ADF minimises the weight and torques, providing the best possible relief for your neck.

The optrel helix series is available with integrated IsoFit® headgear as standard and optionally with an additional hardHat in line with industry standard EN 397.



→ All info, accessories and replacement parts

Helmet system		Item no.		
	<b>optrel helix 2.5</b> welding helmet black, IsoFit® headgear, optrel EN 397 hardHat, black	1050.000		
	optrel helix pure air 2.5	4441.980	Technical data	
	welding helmet	+++1.700	Protection levels	5–12
	black, IsoFit® headgear,		Brightness level	Open: 1.0/closed: 2.5
	optrel EN 397 hardHat, black		Adjustment	ShadeTronic® or manual
	SIGOR		Activation	Automatic on/off, sleep mode
optrel helix 2.5 welding helmet blac IsoFit® headgear	welding helmet black,	1050.010	Power supply	Solar cells, lithium polymer battery, chargeable via micro USB cable, battery service life 300 to 500 charging cycles
			Sensitivity	Individually adjustable
	Ready-to-weld package <b>helix 2.5</b> with <b>swiss air</b> PAPR	4600.140	Switching time	Bright to dark: 0.090 ms at 23 °C 0.070 ms at 55 °C
				Dark to bright: 0.1 s to 2.0 s (with FadeTronic)
	Ready-to-weld package	4550.600	Classification EN 379	1/1/1/2
	helix pure air 2.5		Operating temp.	
1 65°	with <b>e3000X</b> PAPR		Storage conditions	Dark environment
			Total weight	620 g

### PANDRAMAXX CLT

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You won't believe your eyes.

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PANORAMA FIELD **OF VIEW** 



She Tronice 4<12

**CRYSTAL LENS TECHNOLOGY WITH BRIGHTNESS LEVEL 2.0** 

TRUE COLOUR VIEW

**PROTECTION LEVELS 4–12** 



### OPTREL RE-CHARGE

FIVE-POINT DETECTION



**GRINDING MODE** 

**ISOFIT® HEADGEAR** 



( optrel



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FADETRONIC

**SHADETRONIC®** 



No.

**RESPIRATORY PROTECTION** 

#### XXL PANORAMIC FIELD OF VIEW.

Helm

The nose recess of the panoramaxx allows the auto-darkening filter to be moved closer to the eyes, resulting in a field of view that is up to six times larger than a standard welding helmet.

#### CRYSTAL-CLEAR VIEW OF THE WELD POOL.

The world-famous 'Crystal Lens Technology 2.0' is now also available in the **panoramaxx CLT** version. With it, optrel engineers have once again pushed the boundaries of what is possible to a new level. Anyone who has ever welded using CLT will not believe their eyes.



→ All info, accessories and replacement parts



et system	ltem no.	
	<b>optrel panoramaxx CLT</b> welding helmet black	1010.200
	<b>optrel panoramaxx CLT</b> welding helmet silver	1010.201
	<b>optrel panoramaxx CLT</b> fresh air helmet black	4441.780
	<b>optrel panoramaxx CLT</b> fresh air helmet silver	4441.781
	Ready-to-weld package <b>panoramaxx CLT</b> with <b>swiss air</b> PAPR	4600.010
Ø	Ready-to-weld package <b>panoramaxx CLT</b> with <b>e3000X</b> PAPR	4550.590

Technical data			
Protection levels	4-12		
Brightness level	2.0		
Adjustment	ShadeTronic <sup>®</sup> or manual		
Activation	Automatic on/off, sleep mode		
Power supply	Solar cells, lithium polymer battery, chargeable via micro USB cable, battery life 300 to 500 charging cycles		
Sensitivity	Infinitely variable		
Switching time	Bright to dark: 0.090 ms at 23 °C 0.070 ms at 55 °C		
	Dark to bright: 0.1 s to 2.0 s (with FadeTronic)		
Classification EN 379	1/1/1/2		
Operating temp.	-10 °C to +55 °C		
Storage conditions	Dark environment		
Total weight	Silver 610 g, black 600 g		

### PANDRAMAXX QUATTRO

The best visibility in all positions.

**HEITHERE** 

CANORANA



( optrel

#### XXL PANORAMIC FIELD OF VIEW.

The nose recess of the panoramaxx allows the auto-darkening filter to be moved closer to the eyes, resulting in a field of view that is up to six times larger than a standard welding helmet.

#### ONE HELMET. TOP MARKS IN ALL FOUR CATEGORIES.

The **panoramaxx quattro** was developed for use in heavy-duty metal construction, where work is frequently carried out with a lot of energy and in a wide variety of welding positions.

Especially in constrained positions, you don't have a straight view of the welding point. Perfect viewing angle dependency, confirmed by the highest test mark (1) according to the EN 379 standard, guarantees that the **panoramaxx quattro** welder always has the best view of the welding process without having to manually readjust the protection level.

This results in interruption-free and fatigue-free work, which increases performance.



→ All info, accessories and replacement parts

Helmet system		ltem no.
	<b>optrel panoramaxx quattro</b> welding helmet black	1010.100
<b>D</b>	<b>optrel panoramaxx quattro</b> fresh air helmet black	4441.760
	Ready-to-weld package <b>panoramaxx quattro</b> with <b>swiss air</b> PAPR	4600.020
Ŕ	Ready-to-weld package <b>panoramaxx quattro</b> with <b>e3000X</b> PAPR	4550.560

Technical data	
Protection levels	4-13
Brightness level	3.0
Adjustment	ShadeTronic® or manual
Activation	Automatic on/off, sleep mode
Power supply	Solar cells, lithium polymer battery, chargeable via micro USB cable, battery life 300 to 500 charging cycles
Sensitivity	Infinitely variable
Switching time	Bright to dark:
	0.090 ms at 23 °C 0.070 ms at 55 °C
	Dark to bright:
	0.1 s to 2.0 s (with FadeTronic)
Classification EN 379	1/1/1/1
Operating temp.	
Storage conditions	Dark environment
Total weight	575 g

### PANDRAMAXX 2.5

PANORAMA

As versatile as you.



PANORAMA FIELD **OF VIEW** 



**BRIGHTNESS LEVEL 2.5** 



TRUE COLOUR VIEW



SHADETRONIC<sup>®</sup> PROTECTION LEVELS 4-12





( optrel

**OPTREL RE-CHARGE** 

**GRINDING MODE** 



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ISOFIT<sup>®</sup> HEADGEAR

RESPIRATORY PROTECTION

#### XXL PANORAMIC FIELD OF VIEW.

The nose recess of the panoramaxx allows the auto-darkening filter to be moved closer to the eyes, resulting in a field of view that is up to six times larger than a standard welding helmet.

#### A HUGE CINEMA. YOU CHOOSE THE FILM.

Welcome to the big league. The **panoramaxx2.5** combines the enormous field of view with optrel's popular 2.5 technology, and offers excellent vision in every work situation. Whether for welding, cutting, grinding or straightening work. Whatever you want, the optrel **panoramaxx2.5** keeps up with your varied tasks completely automatically.



→ All info, accessories and replacement parts

Helmet system		ltem no.
	<b>optrel panoramaxx2.5</b> welding helmet black	1010.000
	<b>optrel panoramaxx2.5</b> fresh air helmet black	4441.660
	Ready-to-weld package <b>panoramaxx2.5</b> with <b>swiss air</b> PAPR	4600.030
ŔÔ	Ready-to-weld package panoramaxx2.5 with <b>e3000X</b> PAPR	4550.550

Technical data	
Protection levels	5-12
Brightness level	2.5
Adjustment	ShadeTronic® or manual
Activation	Automatic on/off, sleep mode
Power supply	Solar cells, lithium polymer battery, chargeable via micro USB cable, battery life 300 to 500 charging cycles
Sensitivity	Infinitely variable
Switching time	Bright to dark: 0.090 ms at 23 °C 0.070 ms at 55 °C
	Dark to bright: 0.1 s to 2.0 s (with FadeTronic)
Classification EN 379	1/1/1/2
Operating temp.	-10 °C to +55 °C
Storage conditions	Dark environment
Total weight	575 g



You won't believe your eyes.



**CRYSTAL LENS TECHNOLOGY WITH BRIGHTNESS LEVEL 2.0** 

TRUE COLOUR VIEW

125



#### SENSITIVITY REGULATION

RESPIRATORY

PROTECTION

( optrel



**GRINDING MODE** 







**PROTECTION LEVEL 4 TO 12** 





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HEAT-REFLECTIVE COATING

#### CRYSTAL-CLEAR VIEW. BEFORE, DURING AND AFTER WELDING.

With **crystal2.0**, optrel offers brightness level 2.0 and CLT in the tried-and-tested sphere helmet shell. The light transmission here when inactive is 31 per cent.

The crystal-clear view when bright makes the **crystal2.0** the ideal combination helmet without having to make compromises. Colour perception when bright is already very close to the view through clear window glass. When dark, you get a detailed and high-contrast view of the weld pool with unprecedented clarity.



→ All info, accessories and replacement parts

CLT2.0

			1 te	
Helmet system		Item no.		
<b>\$</b>	<b>crystal2.0</b> welding helmet, silver	1006.900		
je.	<b>crystal2.0</b> fresh air helmet, silver	4441.900		
-			Technical data	
000	crystal2.0	1006.901	Protection levels	4-12
11	welding helmet, black		Brightness level	2.0
0			Adjustment	Sha
6			Activation	Auto
and the second s	<b>crystal2.0</b> fresh air helmet, black	4441.901	Power supply	Batt (app
9			Sensitivity	Indiv
24	Ready-to-weld package <b>crystal2.0</b>	4600.040	Switching time	Brig 0.10 0.07
	with <b>swiss air</b> PAPR			Darl 0.05
	Ready-to-weld package	4530.050	Classification EN 379	1/1/1
	crystal2.0	1000.000	Operating temp.	-10 °
	with <b>e3000X</b> PAPR		Storage conditions	 Darl

echnical data	
rotection levels	4-12
rightness level	2.0
djustment	ShadeTronic® or manual
ctivation	Automatic on/off, sleep mode
ower supply	Battery (approx. 3000 hrs operating time)
ensitivity	Individually adjustable
witching time	Bright to dark: 0.10 ms at 23 °C 0.070 ms at 55 °C
	Dark to bright: 0.05 s to 1.0 s (with FadeTronic)
lassification N 379	1/1/1/2
perating temp.	-10 °C to +70 °C
corage conditions	Dark environment

482 g

Total weight

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Experience the difference.



#### OP MARKS IN ALL OUR CATEGORIES



TRUE COLOUR VIEW



SHADETRONIC<sup>®</sup> PROTECTION LEVEL 4 TO 12

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FADETRONIC



GRINDING MODE

(• optrei



RESPIRATORY PROTECTION



HEAT-REFLECTIVE COATING

#### THE FULLY AUTOMATIC SYSTEM WITH ULTRA-HD QUALITY.

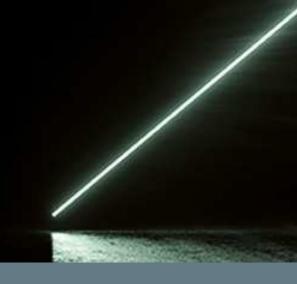
The auto-darkening filter of the optrel **e684** demonstrates top standard "1" in all four classifications for assessing image quality. It's the extremely good viewing angle dependency in particular that highlights the quality of the optrel auto-darkening filter and makes the optrel **e684** so pleasant to work with.

The adaptive protection level regulation adjusts the protection level as necessary in the range of 5 to 13 completely automatically. This is ensured by an additional brightness sensor that measures the intensity of the welding arc. So you always stay perfectly protected, no matter what parameters you are currently welding with. Manual adjustments are no longer necessary. But still possible at the push of a button, of course.

A specially developed UV/IR filter enables the realistic colour perception typical of optrel and brings colour into the welder's world.



→ All info, accessories and replacement parts



Helmet system		ltem no.	Technical data	
			Protection levels	5–13
	e684 welding helmet	1006.500 1006.501 1006.502	Brightness level	4
	silver matt black		Adjustment	ShadeTronic® or manual
dark blue	dark blue		Activation	Automatic on/off, sleep mode
	<b>e684</b> fresh air helmet		Power supply	Solar cells, battery (approx. 3000 hrs operating time)
silver matt black dark blue	4441.600 4441.601 4441.602	Sensitivity	Individually adjustable	
		Switching time	Bright to dark: 0.17 ms at 23 °C 0.11 ms at 55 °C	
Ready-to-weld crystal2.0				Dark to bright: 0.1 s to 2.0 s (with FadeTronic)
1	with <b>swiss air</b> PAPR		Classification EN 379	1/1/1/1
			Operating temp.	-10 °C to +70 °C
Ready-to-weld package e684 with e3000X PAPR	Ready-to-weld package		Storage conditions	Dark environment
		4550.460	Total weight	
		Standards	CE, ANSI, EAC, AS/NZS, complies with CSA Z94.3	

## VEGAVIEW2.5

bright. brighter. vegaview.











PROTECTION LEVEL 8-12





( optrei



**GRINDING MODE** 



RESPIRATORY PROTECTION

### FOR ALL THOSE WHO WANT TO SEE BETTER WHEN WELDING.

The optrel **vegaview2.5** finally fulfils what is probably the most common wish among welders – a bright view. With its bright auto-darkening filter, which offers a view that is approximately 400% better than conventional automatic welding helmets when bright, and at protection level 2.5, the **vegaview2.5** is still at the forefront when it comes to clear visibility during welding.



→ All info, accessories and replacement parts

Helmet system		ltem no.	Technical data	
			Protection levels	8–12
			Brightness level	2.5
04	<b>vegaview2.5</b> welding helmet	1006.600	Adjustment	Manual, external
2	weiding nemier		Activation	Automatic on/off, sleep mode
á		4441 000	Power supply	Battery (approx. 3000 hrs operating time)
94	<b>vegaview2.5</b> fresh air helmet	4441.800	Sensitivity	Individually adjustable
			Switching time	Bright to dark:
	Y C			0.10 ms at 23 °C 0.07 ms at 55 °C
EN	Ready-to-weld package	4600.060		Dark to bright:
22	vegaview2.5	10001000		0.05 s to 1.0 s (with FadeTronic)
	with <b>swiss air</b> PAPR		Classification EN 379	1/1/1/2
			Operating temp.	
vegaview2.5	Ready-to-weld package	age 4580.050	Storage conditions	Dark environment
			Total weight	489 g
	with <b>e3000X</b> PAPR		Standards	CE, ANSI, EAC, complies with CSA

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new. efficient. optimal.





123

PROTECTION LEVEL 9–13

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MEL PSEC



#### NEW DESIGN. EFFICIENT WORK. OPTIMAL PRICE.

The optrel **neo p550** combines the advantages of the tried-and-tested p550 helmet shell with optrel's outstanding anti-glare technology. Experience true colour vision now - even from the mid-price segment. Now with approx. 3000 hours of operational readiness thanks to a new energy concept. And with a response time of only 0.1 ms upon switching on the arc. Perfect protection and comfort for your eyes.



 $\rightarrow$  All info, accessories and replacement parts

			Adjustment	Manual
Helmet system		<b>Item no.</b>	Activation	Automatic on/off, sleep mode
	<b>neo p550</b> welding helmet black <b>neo p550</b> welding helmet green	1007.000 1007.011	Power supply	Solar cells, battery (approx. 3000 hrs operating time)
			Sensitivity	Individually adjustable
			Switching time	Bright to dark: 0.10 ms at 23 °C 0.10 ms at 55 °C
				Dark to bright: 0.05 s to 1.0 s
			Classification EN 379	1/1/1/2
03	Ready-to-weld package <b>neo p550</b> with <b>swiss air</b> PAPR	4600.080	Operating temp.	-10 °C to +70 °C
			Storage temperature	-20 °C to +70 °C
			Total weight	495 g
			Standards	CE, ANSI, EAC, AS/NZS, complies with CSA Z94.3

**Technical data** 

Brightness level

### WELDCAP

radical. casual.

#### WELDING HAS NEVER BEEN SO COMFORTABLE. JOIN THE REVOLUTION.

weldco

6.00

The optrel weldcap<sup>®</sup> series offers automatic welding caps that combine the comfort of a baseball cap with the advantages of a full welding helmet. The comfortable and quick-to-remove textile part is made of flame-retardant material, and is hygienic and easy to wash.

The ergonomic nose recess of the optical unit provides an oversized field of view and conveys a whole new sense of space. The infinitely variable protection levels 9–12 cover the majority of all welding applications. Thanks to the bright view when open, the weld**cap**<sup>®</sup> is also perfectly suited to grinding work and plasma cutting.



→ All info, accessories and replacement parts



101.00

#### PROTECTION LEVEL 9-12











weldcop

#### SLIM DESIGN

LIGHTWEIGHT

( optro



EASY HANDLING



Welding cap	ltem no.	
	weld <b>cap® RC 3/9–12</b>	1008.000
	weld <b>cap® bump RCB 3/9–12</b> With integrated bump cap	1008.001
	weld <b>cap® hard RCH 3/9–12</b> For use with industrial helmet	1008.002
	Ready-to-weld package weld <b>cap®</b> with <b>swiss air</b> PAPR	4600.100

Technical data			
Protection levels	9-12		
Brightness level	3		
Cartridge	Ergonomic nose recess		
Adjustment	 Manual		
Activation	Automatic on/off, sleep mode		
Power supply	Battery (approx. 2000 hrs operating time)		
Sensitivity	Individually adjustable		
Switching time	Bright to dark: 0.16 ms at 23 °C 0.11 ms at 55 °C		
	Dark to bright: 0.35 s		
Classification EN 379	1/1/1/2		
Operating temp.	-10 °C to +60 °C		
Storage conditions	Dark environment		
Total weight	Approx. 360 g		
Standards	CE (EN 379, EN 166, EN 175), ANSI Z87.1, AS/NZS 1337/1338		

### HEAD PROTECTION

Fits like a glove.





#### Item no. 5003.290

The new optrel IsoFit<sup>®</sup> headgear is compatible with all optrel welding and grinding helmets.

The IsoFit® headgear can be adjusted in just a few seconds, and customised to any head size from S to XL.

Protection against stronger impacts and falling objects.



Item no. 5002.840 N – PPE type 1 industrial bump cap (not compatible with IsoFit® headgear)



Item no. 5003.530 halo – the comfort insert for all optrel helmets (not compatible with IsoFit<sup>®</sup> headgear)

### ACCESSORIES

Item no. 8000.100 Helmet rucksack – black/greer





Item no. 8000.110 e3000X bag – black/green

Item no. 5002.900 Parking buddy for weldcap and optrel welding helmets (not compatible with IsoFit® headgear)





Item no. 4028.016 Leather head and neck protection – black

Item no. 4028.031 Leather head and neck protection – black, for fresh air helmets



Item no. 4028.015 Leather chest protection – black



### KELCOMETOTHE **NORLDOF OPTREL**

### protecting professionals since 1986









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