

# HELIX SERIES

Hard work never  
felt so easy.



reddot winner 2023  
best of the best

 **optrel**<sup>®</sup>  
swiss made 

PROTECTING  
PROFESSIONALS



# The slide-up welding helmets for the very toughest working conditions.

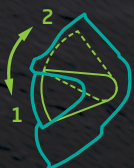


The fully integrated slide-up welding helmet with internal glare protection and super-compact dimensions at minimal weight.

Equipped with adaptive ShadeTronic® technology, XXL panoramic field of vision, IsoFit® headband and the new optrel hardHat industrial safety helmet.

Benefit from peak performance even in the most challenging environments:

- Non-stop working without changing helmets – switch between welding, grinding and cutting.
- Superior field of vision for unrestricted visibility.
- Minimum strain on the neck muscles for lasting comfort.
- Maximum comfort, without compromise.



Shade level

**14\***

\*depending on model



Field of vision



rechargeable



### Slide-up function

Two visor positions: one for welding [1] and one with a clear view for grinding and other work [2]



### Minimiser

For an even more compact shape in the tightest of spaces

### IsoFit® headband

For maximum customisation options

### optrel Hat

Industrial safety helmet to EN 397 standard, available in black or white



### 1 pano mode

Welding with panoramic XXL field of vision and fully automatic adjustment of protection level.



### 2 clear mode

Clear vision for all other work – with the visor up and full face protection. The helmet remains compact in shape.

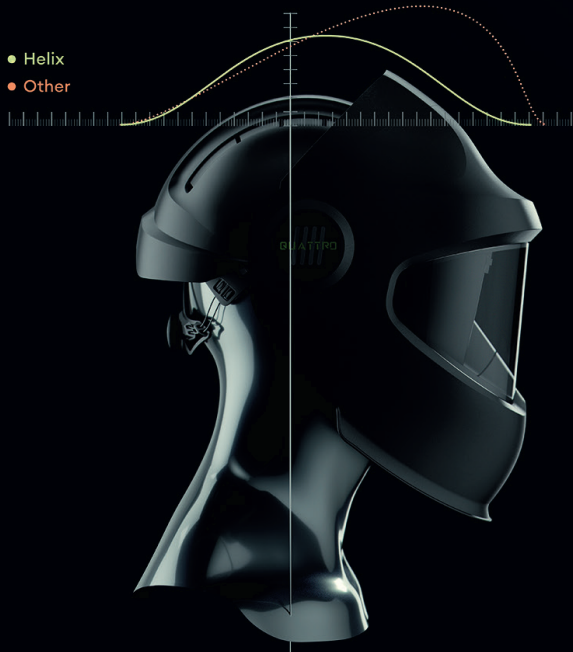


Weights only **620 g**

Combined with an extremely low overall weight of approximately 620 g, it is the ideal companion for heavy-duty welding applications, even in the tightest of spaces.

## No compromises. Full stop.

Thanks to our innovative slide-up technology, you can adapt to the conditions of the job within seconds.



## Perfectly balanced.

The helix is perfectly balanced at all times, which – unlike conventional flip-up helmets – prevents neck and shoulder pain.

## No more tunnel vision.

Keep everything in sight at work – with a field of vision six times larger than comparable products.



## Effortlessly lightweight.

Full protection and maximum adaptability – and lighter than ever.



# Practically made for each other: helix and the swiss air TH3 or TM3 PAPR system from optrel.

Two experts in their field. optrel helix and swiss air are high-performance athletes who work in perfect unison.

Both ultra-compact in size, super-lightweight and designed for maximum efficiency and performance.

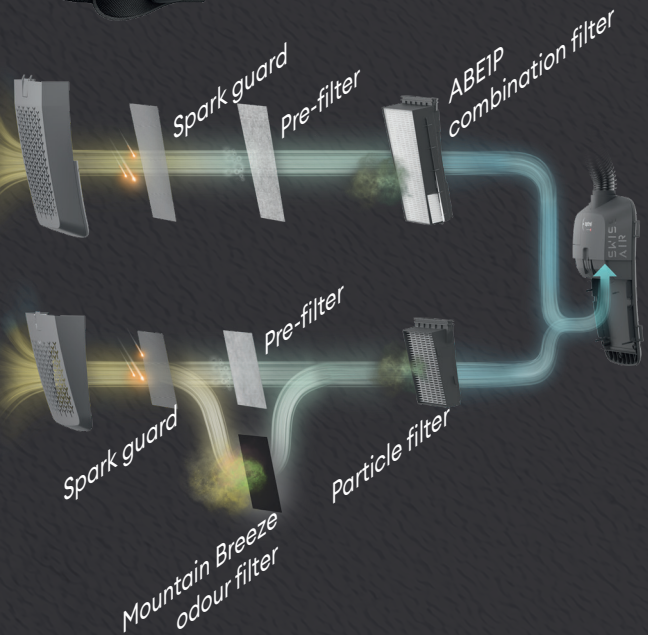
With the optrel 'swiss air' fresh air system, you always have enough fresh air available. The respiratory support technology and the ultra-flat and lightweight rucksack design reduce the fatiguing effect, so you can complete even demanding jobs more easily.



No mask fit test required



Positive pressure principle for respiratory support



## Half mask or silicone mask?

**Half mask:** Protection factor 500.

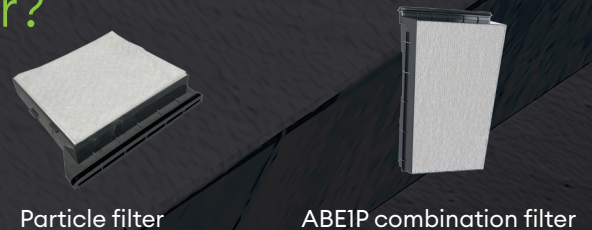
**tight fit silicone mask:** Protection factor 2000.  
tight fit silicone mask available in sizes S, M and L.



## Particle filter or combination filter?

**Particle filter:** Traps aerosols, smoke, particles and viruses.

**Combination filter (gas and particle filter):** Traps gases, vapours, aerosols, smoke, particles and viruses.





# Respiratory protection with a cooling effect: The optrel helix pure air for connection to the optrel e3000X system.

The optrel e3000X system is the robust and reliable solution if you need TH3 or ATEX-certified respiratory protection.

The e3000X is a highly modular respiratory protection solution that you can adapt to your specific protection requirements in seconds.

In addition to the TH3 particle filter, an odour filter insert and an ABE1 gas filter are also available.

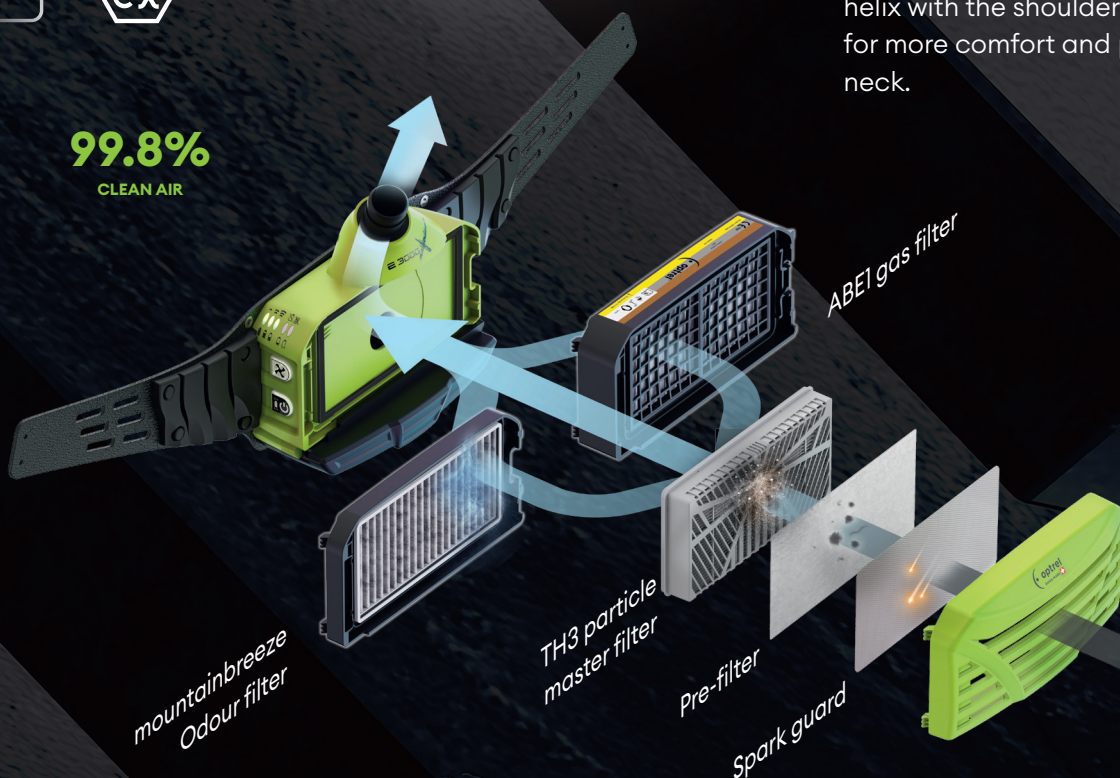
Combined with the optrel helix air, it makes the ideal system for reliable and versatile protection when working in hazardous environments.



ATEX-certified



**99.8%**  
CLEAN AIR



helix with the shoulder-length FaceSeal for more comfort and protection for your neck.



AVAILABLE IN THREE OPTICAL VERSIONS, EACH WITH AND WITHOUT PAPER CONNECTION.

## TECHNICAL DATA



### HELIX QUATTRO

Art. no. 1050.100  
PAPR\*\*: Art. no. 4441.940

### HELIX CLT

Art. no. 1050.200  
PAPR\*\*: Art. no. 4441.960

### HELIX 2.5

Art. no. 1050.000  
PAPR\*\*: Art. no. 4441.980

XXL panoramic field of view clear-view	✓ 180°	✓ 180°	✓ 180°
Weight of helix welding helmet incl. IsoFit® headband	620 g	640 g	620 g
optrel hardHat (according to EN397 standard)	✓	✓	✓
ShadeTronic® (fully automatic protection level adjustment, infinitely variable, can be switched off)	✓	✓	✓
Overhead welding and welding in extreme positions	✓	✓	✓
Position Locker (safe open and closed helmet position)	✓	✓	✓
Ampere range	up to 500 A Protection levels 4-14*	up to 280 A Protection levels 4-12	up to 280 A Protection levels 5-12
Brightness level	3.0	2.0	2.5
FadeTronic (Twilight mode)	✓	✓	✓
EN 379 classification	1/1/1	1/1/1/2	1/1/1/2
optrel IsoFit® headband	inclusive	inclusive	inclusive
Power supply	Solar cells, lithium polymer battery, chargeable via micro USB cable, battery service life 300 to 500 charge cycles		
Sensors	Five sensors		
Sensitivity	Infinitely variable adjustment, new with "Super High" sensitivity and tack welding mode		
Dimensional stability	Welding protection mask: up to 220 °C, protection lens: up to 137 °C		
Eye protection	Ultraviolet/infrared protection: Maximum protection across the entire protection level range		
Areas of application	<p><b>All electric welding processes:</b>                      Electrode welding (stick welding, SMAW) / MIG/MAG (gas metal arc welding, GMAW) / GMAW high-performance welding / flux-cored wire welding / TIG welding (TIG, GTAW) / plasma welding / plasma cutting / <i>Not suitable for gas and laser welding!</i></p> <p>Grinding with clearview (180° field of vision)</p>		
Standards	CE, UKCA, ANSI, EAC, AS/NZS, fulfils CSA Z94.3 Complies with ISO 16321 standards "TIG+" ("low amp Tig" process)		
Guarantee	2 years, additional 1 year extended warranty (excluding battery) issued when you register the product within the first 6 months at <a href="https://optrel.com/register">optrel.com/register</a>		

\* with additional SN+1 protection lens

\*\* for connecting an optrel e3000X PAPR system



swiss made



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