

HELIX  
SERIES

HARD  
WORK  
NEVER  
FEELS  
EASIER



SEE  
WHAT YOU  
CAN DO

For hard and toughest working conditions



# HELIX

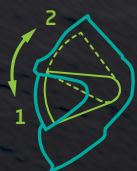
System weight  
**620g** only

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

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

This means: all work in the most unreal working environments

- without helmet change during welding and also during grinding/cutting,
- with the largest possible field of vision,
- with the lowest possible strain on the neck muscles and
- with maximum comfort.



Shade-Level  
**14\***  
\*depending on model



**Slide-up function**

Two visor positions for welding [1] and with clearview for grinding and other work [2]



**Minimizer** for even more compact shape in tightest environments

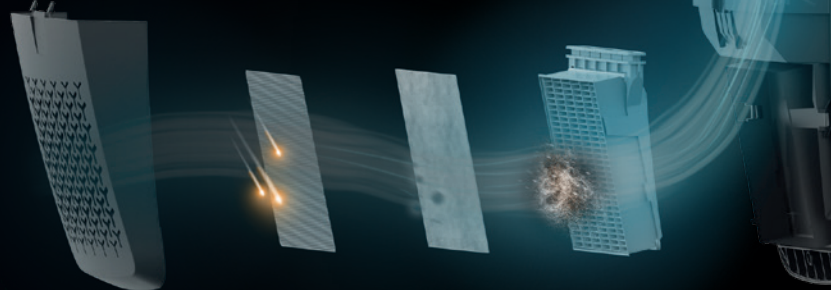
**IsoFit® Headgear** for maximum individual adjustment options



**optrel hardHat** industrial safety helmet according to EN 397 standard, available in black or white



Optimally expandable with the swiss air TH3 PAPR system from optrel.



# AVAILABLE IN THREE VERSIONS

## TECHNICAL DATA



**HELIX  
QUATTRO**

Item no. 1050.100



**HELIX  
CLT**

Item no. 1050.200



**HELIX  
2.5**

Item no. 1050.000

Panorama XXL field of view  
clearview

✓  
180°

✓  
180°

✓  
180°

Weight  
helix welding helmet  
incl. IsoFit® Headgear

620 g

640 g

620 g

optrel hardHat  
(EN397 standard)

✓

✓

✓

ShadeTronic® (fully automatic  
protection level adjustment,  
stepless, 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  
Shade levels 4 – 14\*

up to 280 A  
Shade levels 4 – 12

up to 280 A  
Shade levels 5 – 12

Light state

3.0 / 4.0\*

2.0

2.5

FadeTronic  
(Twilight Mode)

✓

✓

✓

EN 379 Classification

1/1/1/1

1/1/1/2

1/1/1/2

optrel IsoFit® headgear

included

included

included

Energy supply

solar cells, Li polymer battery pack, chargeable via Micro-USB  
Battery life range 300 to 500 charging cycles

Sensoric

Five Sensors

Five Sensors

Five Sensors

Sensitivity

continuously, new with "Super High" sensitivity

Shape stability

Mask: up to 220°C, Front cover lens: up to 137°C

Eye protection

UV/IR protection: maximum protection at all shade levels

Fields of Application

**All electric welding processes:**  
Elektrode Welding (Stick Welding, SMAW) / MIG/MAG (GMAW) / GMAW High melting rate process /  
Flux Cored Wire Welding / TIG Welding (GTAW) / Plasma Arc Welding / Plasma Cutting /  
**Not suitable for gas and laser welding!**  
Grinding with clearview (180° field of view)

Standards

CE, UKCA, ANSI, EAC, AS/NZS, meets CSA Z94.3 standard  
meets pr ISO 16321 standards „WIG+“ („low amp Tig“ procedure)

Warranty

2 years for manufacturing and material defects, 6 months for battery  
1 year additional (battery excluded) for online product registration within the first 6 months (from date  
of purchase) on [optrel.com/register](http://optrel.com/register)

\* with additional protective lens SN+1

