

HELIX
SERIES

HARD
WORK
NEVER
FEELS
EASY



SEE
WHAT YOU
CAN DO

For the toughest working conditions



HELIX

System weight
620g only

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

The Helix comes equipped with adaptive ShadeTronic® technology, a panoramic field of vision, IsoFit® headgear and a removable hardhat.

- Maximize productivity by using the same helmet for welding, cutting and grinding
- Panoramic XXL field of vision
- Approved for overhead welding
- Enhanced ergonomics and comfort, designed to reduce neck and muscle strain



Shade-Level
14*
*depending on model



Slide-up function
Two visor positions for welding [1] and clear view for grinding and other work [2]



Minimizer for even more compact shape in tightest environments

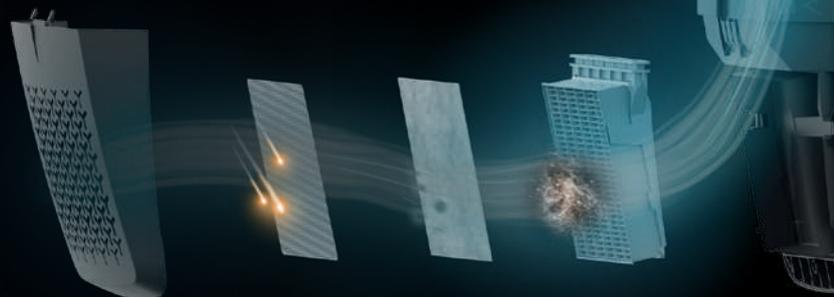
IsoFit® headgear for maximum individual adjustment options



Removable optrel hard-hat according to EN 397 standard, available in black or white



Pairs perfectly with the optrel swiss air PAPR system



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/INZS, 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 <https://optrel.us/product-registration/>

* with additional protective lens SN+1