

## Safety Helmet Dräger HPS 3100

The Dräger HPS 3100 – a multi-functional and universal helmet for the various demands of emergency teams in search and rescue missions, for forest and bush firefighting, road accidents, height rescue and any kind of technical support operations in emergency situations.



- High-tech materials provide an optimal head protection with very low weight
- Excellent wearing comfort due to comfortable interior design
- Sealable ventilation system for optimal climate inside the helmet
- Individual adjustment of the head size by easy to operate adjustment wheel
- Standard delivery with safety goggles in accordance with EN 166 and EN 14458

### DEVELOPED FOR ALL OUTDOOR OPERATIONS

The safety helmet Dräger HPS 3100 (Head Protection System) was developed in close cooperation with fire departments and aid organisations. The multi-functional helmet is designed especially for all needs during outdoor operations. One helmet for all applications – search and rescue missions, wild and bush fire fighting, road accidents, height rescue, hazmat incidents as well as all types of technical support operations.

### ROBUSTNESS DUE TO HIGH-TECH MATERIALS

With its modern design and structure the helmet is a combination between industrial safety helmets according to EN 397 and

mountaineer helmets according to EN 12492. The extremely robust painted helmet shell made of durable thermoplastics provides high and comprehensive protection. A ventilation system is fitted in the helmet both-sided of the comb which ensures an optimal climate inside the helmet, especially during long-lasting forest firefighting or exhaustive rescue missions. The ventilation system is equipped with a metal mesh that prevents ingress of sparks, cuttings or other particles. Moreover, the ventilation openings can be sealed completely during operations via an easy to operate slider, even when wearing gloves.



D-10674-2010



D-5216-2010

XL special rotating wheel



D-10677-2010

**HPS 3100**  
Ventilation system sealable

### USER OPTIMIZED WEARING COMFORT AND GOOD CLIMATE

The high wearing comfort results from the modern interior design and the 4-point harness. The harness can be individually adjusted via a fastening system both in the area of the neck and the temples. The chin strap is fitted with a chin loop and fastened by a buckle – it can be easily adjusted via velcro fasteners. The adjustment wheel for the individual head size adjustment is

simply and safely accessible with gloves. The complete head ring and the neck area are padded. The integrated hair net is used for height adjustment and provides an excellent wearing climate. An inner shell made of polyurethane fits perfectly to the outer helmet shell and increases the mechanical resistance for effective head protection – at the same time it ensures heat insulation inside the helmet. The interior design is made of skin-friendly

materials which are anti-allergic, sweat- and mold-repellant and breathable. For cleaning and servicing the complete interior design can be removed without any tools.

### SAFETY GOGGLES WITH THE HIGHEST OPTICAL CLASS

The safety goggles provided with the Dräger HPS 3100 as a standard are made of a flameproof material and fit optimally to the helmet shape. They are approved to

## DRÄGER HPS 3100

### OUTER SHELL

Made of temperature-resistant durable thermoplastics – painted

### ADAPTION PIN

For lampholder

### REFLECTIVE STRIPE

Design reflective stripe, made of flame resistant material optional (in different colours)

### SILICON STRAP

For easy adaption of safety goggles

### MULTIFUNKTIONAL ADAPTER

Plug in for visors and ear protection

### ADJUSTMENT WHEEL

Individual adjustment of the head size

### HEAD STRAP

Easy exchangeable and washable

### INTERIOR DESIGN

4-point harness made of flame resistant material incl. hair net

### SAFETY GOGGLES (IN CASE OF HPS 3100-SETS INCLUDED)

Ventilated passively (Pinlock), anti-scratch and anti fog

### CHIN STRAP

Chin strap with loop and velcro fasteners

### LOCKING SYSTEM

Ergonomic safety buckle



EN 166 and EN 14458 and meet the impact resistance requirements of protection class B. The ergonomic design of the spectacles frame made of polyurethane provides highest wearing comfort. The goggles are ventilated passively and in combination with the modern anti-scratch coated double-lenses system (Pinlock) made of polycarbonate they are optimally protected against fogging and scratching.

## WIDE RANGE OF ACCESSORIES

There is an wide range of accessories available for the Dräger HPS 3100 – thus the helmet can be adapted to the most diverse and individual applications - according to the motto "One helmet for all applications". Visors and ear protection systems are safely adapted to the helmet via a multifunction adapter. Special visors such as mesh visors and electric visors are

available especially for work with a chain saw and protection against electric arcs when working with high-voltage systems. The range of accessories also includes helmet lamps as well as lamp holders, ear protection systems, PC visor as an alternative for the safety goggles, a neck curtain made of flameproof Nomex material and reflective strips of various colors.

## ACCESSORIES

D-5230-2010



**Safety goggles**  
Eye protection with Pinlock system.  
**R 58 424**

D-5227-2010



**Metal mesh visor**  
To protect the eyes against flying shavings, e.g. when working with wood.  
**R 58 431**

D-5226-2010



**Electro visor**  
To protect eyes against electric arcs when working in electric installations carrying heavy currents.  
**R 58 433**

D-5226-2010



**PC (polycarbonat) visor approved in accordance with EN 166**  
Eye- and face protection.  
**R 58 432**

D-5225-2010



**Hearing protection**  
Earmuffs to wear with the helmet incl. adapter for visor adaption.  
**R 58 430**

D-5240-2010



**Carrier bag**  
For transport and storage.  
**R 58 435**

ST-3371-2008



**Anti-fog spray**  
For all visors.  
**R 56 542**

D-10673-2010



**Neck curtain**  
Nomex, Dutch version.  
**R 58 434**

D-10671-2010



**Lampholder**  
For attachment of Dräger PX1 Helmet lamps.  
**R 58 429**

D-1131-2010



**Lamp Dräger PX1 Xenon**  
Robust, high temperature resistant lamp with Ex-protection class.  
**R 57 816**

D-1131-2010



**Lamp Dräger PX1 LED**  
Robust, high temperature resistant lamp with ex-protection and long-life LED technology.  
**R 57 817**

D-10668-2010



**Reflective stripes**  
Design reflective stripe made of flame resistant material.  
**red R 58 426**

D-10669-2010



**Reflective stripes yellow**  
**R 58 427**

D-10670-2010



**Reflective stripes grey silver**  
**R 58 428**

## ORDER INFORMATION

### Dräger HPS 3100 Sets

Set including safety goggles – available in 8 different colours

Dräger HPS 3100 Set, red	R 58 401
Dräger HPS 3100 Set, white	R 58 402
Dräger HPS 3100 Set, yellow	R 58 403
Dräger HPS 3100 Set, blue	R 58 404
Dräger HPS 3100 Set, black	R 58 405
Dräger HPS 3100 Set, luminescent	R 58 406
Dräger HPS 3100 Set, bright yellow	R 58 438
Dräger HPS 3100 Set, bright orange	R 58 439

### Dräger HPS 3100 Helmet

Helmet without safety goggles – available in 8 different colours

Dräger HPS 3100, red	R 58 440
Dräger HPS 3100, white	R 58 441
Dräger HPS 3100, yellow	R 58 442
Dräger HPS 3100, blue	R 58 443
Dräger HPS 3100, black	R 58 444
Dräger HPS 3100, luminescent	R 58 445
Dräger HPS 3100, bright yellow	R 58 446
Dräger HPS 3100, bright orange	R 58 447

## TECHNICAL DATA

Size	universal size, continuously adjustable for head sizes from 52 to 64 cm
Dimensions	240 x 295 x 193 mm (width x length x height)
Weight	ca. 800 g (helmet), ca. 115 g (safety goggles)
Outer shell	Polyamide, reinforced with glass fibres
Inner shell	Polyurethane
Interior design	flame-resistant and washable 4-point-harness, chin strap with velcro fasteners and buckle, hairnet made from Kermel/viscose
Ventilation system	continuously adjustable, additionally reinforced with a steel mesh
Low-temperature stability	down to -30°C
Safety goggles	double-lenses system (Pinlock) and passively ventilated safety goggles made from polyurethane, optical class 1B
Approvals and tests for the helmet	EN 397:2001 (industrial safety helmet), EN 12492: 2003 (mountaineer helmet), EN 443:1997 points 5.6 and 5.7 (heat and flame resistance)
Approvals and tests for the safety goggles	EN 166:2004, EN 14458:2004

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