



FIRE FIGHTING HELMETS

1



HEROS-titan: full shell



HEROS-smart: 3/4-shell



HEROS-matrix: 3/4-shell

HEROS FIREFIGHTING HELMETS FROM ROSENBAUER

Rosenbauer has over 20 years of experience with protective helmets. The HEROS, a helmet from Rosenbauer, was introduced to the market in 1992. In 2005, this was followed by the HEROS-xtreme, the first full-shell helmet to comply with standard EN 443. The ¾-shell helmets HEROS-smart and HEROS-matrix complete the product range. In 2015, Rosenbauer sets a new standard for maximum safety in firefighting operations with the HEROS-titan firefighting helmet.

Today, the HEROS firefighting helmets are used hundreds of thousands of times over and ensure the protection and safety of emergency crews worldwide. All HEROS helmets are produced entirely by Rosenbauer, using only Rosenbauer tools.

Performance characteristics	HEROS-titan	HEROS-smart	HEROS-matrix
EN 443:2008	●	●	-
EN 16471, EN 16473	●	●	●
Helmet type	Type B/3b (full shell)	Type A/3b (¾-shell)	Type A/3b (¾-shell)
Size adjustment from the outside	●	●	●
Size	49 - 67	51 - 65	51 - 65
Face shield according to EN 14458	●	●	○
Protective goggles per EN 14458	○	○	○
Neck protection	●	○	○
Edge protection	●	○	-
Helmet stripes	○	○	○
Helmet crests	○	○	○
Integrated lamp holder	●	●	●
Lamp holder as accessory	○	○	○
Integrated thermal imaging camera	○	-	-
Integrated mask adapter	○	-	-
Helmet radio	○	○	○
Leather casing	○	○	-
Comfort padding chinstrap	●	○	○

○ optional ● standard - unavailable

Standards for firefighting helmets



EN 443:2008

Establishes minimum requirements for firefighting in buildings and other structures. An important component of this is the distinction between firefighting helmets of Type A and Type B. Type A helmets cover only the upper portion of the head. Type B helmets additionally provide protection for the lower half of the head and are referred to as full helmets.



EN 14458:2004

In EN 14458, the focus is specifically placed on eye and face shields and visors, which are used in protective helmets.



EN 16473:2014

EN 16473 describes helmets for technical rescue. Examples include traffic accidents, rail traffic incidents and work in and around collapsed buildings after natural disasters.



EN 16471:2014

The EN 16471 also applies to helmets used for forest and other land firefighting.



ISO 16073:2011

ISO 16073 regulates the minimum requirements and test methods for all personal protective equipment used by forest and other land firefighters.

Additional testing:



Electric isolation



Resistance against liquid chemicals

Requirements according to EN 443:2008

Heat radiation	<ul style="list-style-type: none"> 8 minutes $14 \text{ kW/m}^2 \geq 300 \text{ °C}$ helmet temperature
Shock absorption	<ul style="list-style-type: none"> Hemispherical striker 5 kg from a height of 2.5 m In heated condition $> 300 \text{ °C}$ helmet temperature Force transmitted to head $< 15 \text{ kN}$
Penetration resistance	<ul style="list-style-type: none"> Flat blade striker 1 kg from a height of 2 m In heated condition $> 300 \text{ °C}$ helmet temperature No contact with test head
Flame engulfment	<ul style="list-style-type: none"> Flame engulfment $1,000 \text{ °C} / 10 \text{ sec}$ No afterburning $> 5 \text{ sec}$ No dripping

HEROS-titan and HEROS-smart clearly outperform all requirements according to EN 443 and provide the highest protection in all fire fighting operations.



Heat radiation



Shock absorption



Penetration resistance



Flame engulfment



Most powerful helmet torch

FIRE FIGHTING HELMET HEROS-titan

Tougher than any operation.

The new generation of HEROS firefighting helmets combines maximum protection with wearing comfort and a perfect fit. Harder than every operation, it withstands high mechanical loads and extreme temperatures without problems.

- Minimal weight of approx. 1.3 kg
- Lighter helmet shell with excellent stability
- Optimised centre of gravity
- Wide range of sizes from 49 to 67 with only one helmet shell
- "Bionic Design" conveys power, dynamic and speed
- Individual helmet adjustment in just five steps
- Disassembly of interior fittings does not require any tools
- Interior fittings can be washed at 40 °C to 60 °C
- Improved user- and service-friendliness

The HEROS-titan is tested and certified according to EN 443:2008, EN 16471, EN 16473 and ISO 16073

- Helmet type B / 3b
- CE 0299
- Additional testing: E2E3C****

E2E3	electric isolation
C	contact with liquid chemicals
****	-40 °C

New helmet shell, minimal weight

- Ergonomically shaped helmet shell
- Thin design made of light material with high stability
- Weighs only 1.3 kg and remains comfortable and secure on the head of the wearer even after long periods
- Highest mechanical protective properties

Optimised damping insert

- Heat-insulating damping insert protects the head from heat even better
- More robust in terms of penetration

Improved rotary knob

- Simple and rapid size adjustment of the helmet from the outside
- More grip and better haptics
- Easily adjustable from outside even when wearing gloves
- Expanded adjustment range due to improved gearing mechanism of the rotary knob

Integrated edge protection

- Protects the helmet at the edges from bumps, wear and damage
- Attached directly to the helmet
- Fitted as standard

Visors: optical class 1

- Visors designed according to the highest optical class 1
- Better view and a comfortable and long wear comfort
- Face shield and eye protector visors certified according to EN 14458:2004
- All visors are suitable for eyeglass wearers

Fully flexible mask adapter (optional)

- Additional alignment back and forth and up and down
- Suitable for all common respirator masks

Most powerful helmet lamp (optional)

- With a weight reduction of 15 %, it is even lighter to wear on the helmet
- Luminosity can be adjusted in three stages
- With significantly more power and optimised luminosity
- Battery change is indicated by a flashing signal

Thermal imaging camera for HEROS-titan (optional)

- Simple attachment onto the helmet
- Five different color representations
- Temperature display from -40 °C up to +1,200 °C
- Display size of 2.4" (inches), format 4:3



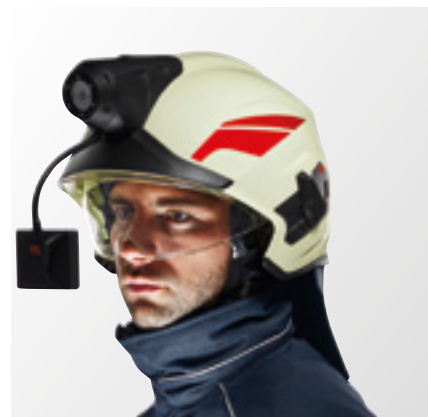
User friendly rotary knob



Face shield and eye protection visors according to optical class 1



Fully flexible mask adapter



Helmet-mounted thermal imaging camera



157300



157301



157302 / 157312



157304



157305



157306



157307



157308



157309



157311

A perfect fit in just five steps.

The HEROS-titan ensures a perfect fit with its innovative concept. The internal fittings of the new full protection helmet can be adjusted for a perfect fit in just five steps.

1. Wear height

The wearing height can be adjusted in the internal fittings thanks to the headbands. The wearing height is easiest to adjust when the interior fittings are removed.

2. Headbands in three widths

The headband can be adjusted on both sides to three different stages.

3. Chin strap padding

The position of the chin strap padding near the ears is also adjustable.

4. Rotary knob

The wear comfort can now be adjusted at any time using the external rotary knob - very easily, even when wearing firefighting gloves.

5. Optimised centre of gravity

The helmet can be optimally aligned to the body's centre of gravity by pressing the helmet shell away from or closer to the interior fittings.



Wear height



Chin strap padding



Headbands in three widths



Optimised centre of gravity

Scope of delivery

The HEROS-titan comes complete with neck protector and face shield. Weight: approx. 1.35 kg

Order No.	Colour
157300	HEROS-titan luminous
157301	HEROS-titan high-visibility red
157302	HEROS-titan high-visibility yellow
157304	HEROS-titan blue
157305	HEROS-titan black
157306	HEROS-titan white
157307	HEROS-titan silver
157308	HEROS-titan red – RAL 3020
157309	HEROS-titan yellow – RAL 1018
157310	HEROS-titan white with black crest
157311	HEROS-titan chrome
157312	HEROS-titan high-visibility luminous yellow

Accessories and options for the HEROS-titan

157349 Helmet lamp system for HEROS-titan

The helmet lamp is easily detachable and can also be used as a hand-held lamp. Operation while wearing gloves is also possible.

- Ex II 2 G Ex ib IIC T4 Gb
- Ex II 2 D Ex ib IIIC T 135 °C Db
- Revolutionary and extremely powerful hi-tech LED beam, explosion-proof
- Comes complete with 3 AAA batteries
- Select from three different light levels
- Weight: 0.13 kg



157349

157348 Helmet-mounted thermal imaging camera for HEROS-titan

The camera is simply attached to the helmet and the current field of view is transferred to the display as a heat image. The incorporated lamp is a true plus in functionality.

- Five colour representations
- High resolution of 384 x 288 pixels
- Display size of 2.4" (inches), format 4:3
- Temperature display from -40 °C up to +1,200 °C
- Low weight of 427 g (incl. battery)
- Integrated helmet lamp with two high-performance LEDs



157348



15735101

For detailed information please refer to page 70.

Face shield

Certified according to EN 14458:2004. Designed according to the highest optical class 1. Suitable for eyeglass wearers.

157350 Clear, as spare part

15735101 Gold coated, mounted onto the helmet (instead of standard visor)

157351 Gold coated, as spare part



157350

Eye protector

Certified according to EN 14458:2004. Designed according to the highest optical class 1. Suitable for eyeglass wearers.

15735402 Clear, as spare part

157354 Clear, mounted onto the helmet

15735401 Tinted (sun protection), mounted onto the helmet

15735403 Tinted (sun protection), as spare part



157354



15735403

Set of straps for mask fastening

Complete (left and right). For fastening of 2-point-mask adapters (adapter not included). Colour: white:

156862 Mounted onto the helmet

15686201 Loose, as spare part

Mask adapter

For assembly of masks with spring clamps.

15733101 Mounted onto the helmet

157331 Loose, as spare part



15735402



15735401



156862

(comes without helmet and mask)



157331



157369



157368



Symbolic picture



15736401



15736501



15736601



15736701



157364 / 157394



157364 / 157394



15739804



1573992



15736301/15736305
(without lamp)



15736301

Neck protector

Made of heat and flame resistant material.

- 157369** Standard neck protector, two layers, as spare part
- 15736901** Standard neck protector, three layers, instead of standard neck protector
- 15736904** Standard neck protector, three layers, as spare part
- 157368** Circumferential neck protector ("Holland") two layers, as spare part
- 15736801** Circumferential neck protector ("Holland") two layers, instead of standard neck protector
- 15736802** Circumferential neck protector ("Holland") three layers, instead of standard neck protector
- 15736804** Circumferential neck protector ("Holland") three layers, as spare part

Other neck protectors upon request.

Helmet trims (double)

Made of 3M Scotchlite.

- 157364** Colour: red, mounted onto the helmet
- 157365** Colour: silver, mounted onto the helmet
- 157366** Colour: yellow/gold, mounted onto the helmet
- 157367** Colour: blue, mounted onto the helmet
- 15736401** Colour: red, as spare part
- 15736501** Colour: silver, as spare part
- 15736601** Colour: yellow/gold, as spare part
- 15736701** Colour: blue, as spare part

Individualised lettering for HEROS-titan

Wording and colour freely selectable.

- 1573991** Lettering single-line, mounted onto the helmet
- 1573992** Lettering double-line, mounted onto the helmet
- 15739910** Lettering single-line, as spare part
- 15739920** Lettering double-line, as spare part
- 15739804** Lettering name, printed on foil, as spare part

15736301 Universal adapter for HEROS-titan

The universal adapter enables quick and easy attachment of lateral fitting of helmet lamps. The adapter can be mounted on both left or right side of the helmet. For the following helmet lamp connection pieces can be provided: UK3A, Parat PX1 / PX0, Fenix E05.

Universal adapter for attachment on the helmet	Helmet torch adapter for attachment on the universal adapter	
	15736303 For UK3A	
	15736304 For Parat PX1 / PX0	
	15736305 For Fenix E05	

Adapters for other helmet lamps upon request.

Protection cover for extreme operations and fire containers

- 157374** **Material: NOMEX®**
15737401 **Material: NOMEX® gold**

Helmet crests upon request.

- 156871** **Chin guard, made of leather**

- 1573601** **Adjustment set for small head sizes**

- 156671** **Profi cleaning agent for fire helmet HEROS**
 40 ml spray bottle.

Head band lining

- 15737001** **Made of textile**, as spare part
15737002 **Made of leather**, as spare part
15737003 **Made of leather** instead of textile, mounted onto the helmet

15684301 Carrying and storage bag

The bag enables comfortable transport of the helmet and accessories as well as perfect protection during storage of the helmets. Moreover, it can be used as a washing bag to clean, for example, the inner harness in a washing machine. Weight: 0.06 kg.

Spare parts for HEROS-titan

No.	Part	Order No.
01	Helmet shell	15732003
02	Front shield, black	157357
03	Helmet lamp HL3 Ex	157349
04	Blind cover set (1 pair)	15733102
05	Mask adapter set (1 pair)	157331
06	Rotary knob	157361
	Gearwheel	15736001
07	Helmet band	15735902
08	Textile headband cover	15737001
08a	Leather headband cover	15737002
09	Foam headband without covering	15735903
10	Chin strap	157370
11	Neck protector	157369
11a	Neck protector, three layers	15736901
11b	Circumferential neck protector	157368
11c	Circumferential neck protector, three layers	15736802
12	Mask adapter/ straps for masks	15686201
13	Face shield, transparent	157350
13a	Face shield, gold-plated	157351
14	Eye protector, transparent	15735402
14a	Eye protector, tinted (sun protection)	15735403
15	Helmet trims red, doubled	15736401
15	Helmet trims silver, doubled	15736501
15	Helmet trims yellow/gold, doubled	15736601
15	Helmet trims blue, doubled	15736701
16	Helmet lettering "FIRE BRIGADE"	15739801
	Internal fittings with textile covering	157363



Helmet crests upon request.



15737003



157360



15684301

