



HEROS-titan

Verwenderinformation User information

(DE, EN, FR, IT, ES, FI, NL, NO, SV,
CZ, HU, PL)

 **rosenbauer**

INTRODUCTION

In these instructions for use, we provide you with all the necessary information on design, employment and care of the HEROS-titan fire fighting helmet. Despite strict quality requirements during the development and production processes, as well as stringent final checks prior to every delivery, in the final analysis, the HEROS-titan helmets are only as good as the standard of their handling, maintenance and care. In other words, the extent to which the HEROS-titan can fulfil its protective function and the subsequent degree of user satisfaction are very much in the hands of the individual fire-fighter.

The contractually guaranteed scope of protection of the respective personal protective equipment results from the relevant provisions of the PPE Regulation (EU) 2016/425 and the standards derived from it in accordance with the declaration of conformity. Any further protection does not exist. Additional dangers such as chemical, biological, electrical or radioactive hazards must be covered by another and/or additional protective equipment.

At this point we would like to point out that the user of this PPE must carry out a risk assessment before use. The user determines through this risk assessment what risk he will have to expect in his operations. The real risk arises from the extent to which various hazards are likely in relation to the severity of the consequences for the user in such an exposure. The resulting risk assessment is the basis for the selection and application of an adequate protective equipment (with the appropriate protection level if applicable).

Please make sure that your Rosenbauer PPE meets the requirements of your risk assessment with regard to the contractually guaranteed protective effect.

1. SAFETY INSTRUCTIONS AND FIRE FIGHTING HELMET APPLICATIONS

1.1 The HEROS-titan fire fighting helmet may only be used for the purposes for which it has been designed after careful study of the complete instructions. The helmet is to be employed exclusively for operations according to fire fighting guidelines and standard practice.

The helmet is neither suitable nor certificated for use as a cycle helmet, motor cycle helmet, as a seat, as an object for standing on, or similar activities.

Utilisation for such purposes is unacceptable and forbidden.

WARNING: Improper use of the helmet for purposes other than those permitted can lead to serious injury!

- 1.2 The HEROS-titan fire fighting helmet must be handled, checked and maintained in the manner described in this user information and the instructions for use. In order to safeguard the HEROS-titan helmet against premature ageing, store it in a place, which offers maximum protection against light and moisture.
- 1.3 All repair work, component exchange and servicing on the HEROS-titan fire fighting helmet may only be undertaken according to the appropriate guidelines in accordance with these instructions for use. All activities must be logged. Only specialists authorised by ROSENBAUER may carry out fundamental maintenance and servicing work, not described in this user information.
- 1.4 At the very least, the helmet shell and the interior harness must be checked for possible damage, either before or after each operation. In particular, the tight fit of all screws is to be examined. In the case of unusual damage on the helmet shell, the interior harness, the chinstrap or other parts, these must be exchanged immediately in order to guarantee the defined protective function. Only original parts may be employed for the maintenance of the HEROS-titan fire fighting helmet. Subsequently applied paint on the helmet surface, or stickers not approved by Rosenbauer, can alter the characteristics of the material and are either forbidden, or subject to prior approval from Rosenbauer. No alterations may be made to the helmet shell and the interior harness.

WARNING: Changes to the helmet shell or interior harness can have a negative effect on helmet function and thus cause serious injury. Therefore, they are forbidden.

- 1.5 The responsibility and liability for the aforementioned items 1.1-1.5 lie exclusively with the users of HEROS-titan helmets.

WARNING: In the case of non-adherence to these stipulations, Rosenbauer cannot give any guarantees concerning the perfect function of the HEROS-titan fire fighting helmet! Rosenbauer's conditions of liability and warranty are not extended due to this information.

- 1.6 The HEROS-titan fire fighting helmet was developed in accordance with the relevant standards, but does not come with a guarantee that injury can be excluded.

WARNING: The helmet absorbs energy if a blow is received to the helmet, partial destruction of, or damage can occur. Even though such damage may not be obvious, any helmet subjected to a severe impact should be replaced immediately.

WARNING: When fitted with another item of personal protective equipment or with an accessory (other than as supplied by the helmet manufacturer for use with this helmet) a helmet marked as complying with EN 443 might no longer satisfy all clauses of the standard. Refer to information supplied by the helmet manufacturer.

WARNING: The safety intended to be provided by the helmet can only be ensured when it is properly assembled and correctly fitted. Removable parts shall not be worn separately.

2. SPECIFICATIONS

2.1 General information

Manufacturer:

Rosenbauer International AG
Paschinger Straße 90
4060 Leonding/Österreich
Tel.: +43 732 6794-0
rbi@rosenbauer.com
www.rosenbauer.com

These instructions for use are valid for the HEROS-titan helmet in its differing versions, ID-No: 1573XX. The HEROS-titan fire fighting helmet was designed and tested in accordance with the stipulations of the EN 443:2008, EN 16471:2014, EN 16473:2014 and ISO 16073:2011 European standard.

Download EC declaration of conformity:

<https://www.rosenbauer.com/en/rosenbauer-world/download-center>

2.2 HEROS-titan specifications

Tested and certified acc. to standard: EN 443:2008 **CE** 0299

Helmet type B / 3b

Head sizes: 49-67 cm (adjustable)

E2 (optional requirement 4.12.2. – C insulation of wet helmet – fulfilled)

E3 (optional requirement 4.12.3. – surface insulation – fulfilled)

C (optional requirement 4.13. –

contact with chemicals – fulfilled)

**** (optional requirement – minus 40° C – fulfilled)

Weight of helmet (with visor, without neck protection): approx. 1300 g

The 3b scope of protection according to EN 443:2008 is satisfied by using the standard face protection visor in the position of use.

Tested as per standard: EN 16471:2014 **CE** 0299
 "Firefighting helmets – Helmets for wildland fire fighting"
 Tested as per standard: EN 16473:2014 **CE** 0299
 "Firefighting helmet – Helmets for technical rescue"

Tested as per standard: ISO 16073:2011 **CE** 0299



0299/19

EN

2.3 Visor specifications

Inspected acc. to standard: EN 14458:2018 **CE** 0299

157350	Face shield transparent
157351	Face shield gold-plated
15735402	Eye protector transparent
15735403	Eye protector tinted

- (+) With increased thermal performance
- (=) For general use
- ☺ Face shield
- ⊙ Eye protector
- E1&E2 Electrical properties
- 📖 See manufacturer information
- 40°C/+60°C applied extreme temperatures
- BT Protection against high-speed particles
- AT Resistance to particle impact with high energy
- Abrasion resistance (method a)
- Resistance to fogging

2.4 Resistance against chemicals

The HEROS-titan helmet, together with the visors, has been inspected for resistance against the following chemicals according to EN 443 / 5.15 and EN 14458 / 5.2.16:

- Sulphuric acid 30 % (aqueous solution)
- Sodium hydroxide 10 % (aqueous solution)
- p-xylene, undiluted
- Butan-1-ol, undiluted
- n-heptane, undiluted

3. DESIGN

3.1 Helmet shell

The helmet shell is covered with a functional paint coating (impact resistant).

If the paint coating is damaged, it may affect the protective function of the helmet; therefore, the damage must be repaired by a professional immediately.

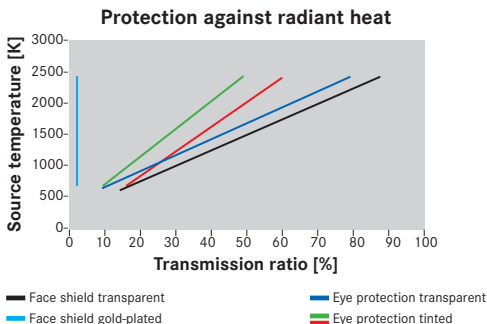
3.2 Helmet internal fitting

The helmet internal fitting allows the optimum adjustment of the helmet ensuring a perfect fit to the head. The complete helmet liner can be easily removed from the helmet without tools for cleaning and adjustment purposes. The covering of the headband can either be produced in textile (standard) or leather (optional). The novel method of adjusting the headband to the relevant head size from the outside provides individual adjustment. The height the helmet is worn on the head can be varied by 2 ratchet adjusters located on the left and right upper side of the helmet liner. In addition, a basic head size position can be established using the longitudinal adjustment of the headband (three positions).

3.3 Visor

The visor on the HEROS-titan fire fighting helmet is made of highstrength polycarbonate.

WARNING: In order to ensure that the protective function of the visors conform to the standards, they must be deployed completely. The visors have been developed and inspected according to the applicable EN14458 standard; however, they do not provide a guarantee that injuries are excluded. In extreme temperatures even the best helmet visor materials lose their stability. **Deformed, scratched or otherwise damaged visors must be replaced immediately.** Visors are wear parts and should be stocked in sufficient quantities. The visors are located inside the helmet and can be swivelled outwards. The protection against radiant heat provided by the visors depends on the temperature of the heat source. The visors should be used only in situations in which they can reduce the exposure of the wearer’s eyes to less than 100 W/ m².



3.4 Chinstrap

The trapezoidal shaped chinstrap is made of flame-retardant, highly heat resistant material. The chinstrap can be individually adjusted both laterally and vertically in the neck area.

NOTE: This helmet fulfils the requirements of EN443:2008 for the strap system if the chinstrap supplied by the manufacturer is worn and adjusted according to these regulations.

3.5 Neck protection

All the materials employed are flame retardant and highly heat-resistant. The neck guards are secured to the interior helmet harness and the helmet shell by a tension strip and are easily removed for cleaning purposes. The neck guard offers generous cover for the neck and ear areas without reduction of the hearing. Neck protectors are wear parts; a sufficient number should be kept in stock. The “Holland” all-round neck protection is optionally available in place of the standard neck protection.

WARNING: The neck guard is a protective device, made of soft, flexible material, which offers limited mechanical protection. Neck guards are wear parts and should be stocked in sufficient quantities. In operations in which a flashover or a similar event is to be expected, we strongly recommend to use a flame protection hood together with the standard neck protection or the all-round neck protection.

4. INSTRUCTIONS FOR USE

4.1 Helmet size adjustment

A basic helmet setting can be established as a result of the unique possibility provided for adjusting the headband to the respective head size from the outside.

The setting screw on the outside of the helmet can be used to adjust the size from 49 to 67; if the head size is smaller, the basic width of the headband can also be adjusted. Open the helmet harness, put the helmet on and tighten the harness until the helmet sits firmly, without a feeling of excessive pressure.



Putting on the helmet



Size regulator to be turned on to „minimum“



WARNING! Once the screw locks, do not employ force to turn it further.

Naturally, the helmet can be further adjusted during operations to the prevailing conditions, taking into account all safety regulations.

4.2 Adjustment of the wearing height and head size adjustment

4.2.1 Adjustment of the wearing height

The wearing height is easiest to adjust when the interior fittings are removed.



1: Fixing points front
2: Fixing points rear

Loosen axle

The inside liner can be removed from the helmet without tools by first loosening both front fixing points (see Fig. 1) and then both rear fixing points (see Fig. 2).

The axle must then be removed from the rotary knob, thus allowing the inside liner to be removed (see Fig. 3).

Using the rear headbands as shown in Fig. 4, the wearing height can now be adjusted with the aid of six adjustment positions. Be sure to adjust both bands equally.

WARNING: When adjusting the sliders, attention should be paid to the audible locking of the slider following setting, in order that the safety function of the interior harness is guaranteed.

4.2.2 Head size adjustment



The headband can be adjusted on both sides to three different sizes. (see Fig. 5, 6, 7). One for small heads (49-55), two for medium-sized heads (56-63), three for large heads (64-67). Be sure to adjust both sides equally.

Setting should take place in such a way that the helmet isn't too high or too low and the visor doesn't touch the nose. (see Fig. 8 and 9)



Installation of the inside liner in reverse order.

4.3 Adjustment of the chinstrap

The chinstrap can be opened and closed using a plastic key lock. The tension of the chin strap can be adjusted by steplessly adjusting the key lock on the right chin strap side.

In order to ensure the ideal fit of the chinstrap, the position of the strap can be altered by adjusting the Velcro fastening in the neck area. The chinstrap can be perfectly adjusted to the shape of the head by means of the traverse strap with Velcro fastening. If the contact in the neck area is supposed to be especially tight, the traverse strap can be pulled through the eyelet and attached on the back with Velcro. (see Fig. 11) If a chin protector is employed, the length of the chinstrap must be such that the protector sits tightly.

4.4 Chinstrap adjustment

The chin strap can be adjusted on two sides.

Tight fit on the chin (see Fig. 9).

Position of the chin strap padding near the ears (see Fig. 10).



NOTE: In general, the straps should be tensioned in such a way that they fit tightly, but provide comfortable wear.

NOTE: This helmet complies with the retention requirements of the relevant standard and will only provide optimum protection if the chin strap is adjusted and closed as instructed. Helmets must be used only with chinstraps fully closed and adjusted to a tight fit.

4.5 Adjustment of the helmet center of gravity

Optionally, the helmet can be optimally aligned to the body's center of gravity by moving the helmet shell relative to the interior fittings.

To do so, open the main fittings left and right as shown in Fig. 12. The inside liner can then be adjusted to one of the three possible "A B C" positions. Be sure to adjust both sides equally.



4.6 Adjustment wearing comfort headband

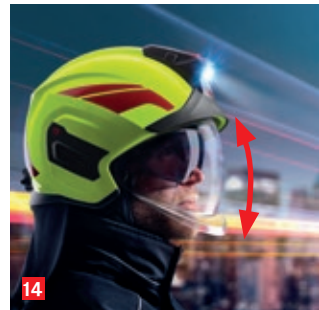
The wearing comfort can now be adjusted at any time using the external rotary knob (see Fig. 13) – very easily, even when wearing fire fighting gloves.



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4.7 Visor

The visor is attached to the front edge of the helmet and should be pulled down until it stops (see Fig. 14). The visor is pushed up in the reverse sequence. The optional eye protection visor is pulled down until it stops using **both** lateral levers simultaneously. It is pushed up in the reverse sequence, but is only secure when tangible locking occurs.



WARNING: The protective function of the visors is ensured only in the end position (final stop, no intermediate position). Improper use of the visors can lead to serious injury or even death. Damaged visors may no longer be used and must be replaced immediately.

5. CARE INSTRUCTIONS

The outer layer of the helmet, the plastic parts and the inner lining must be cleaned periodically. It is best if the outer layer of the helmet is cleaned after every operation; this reduces the ability of the dirt to stick. Clean the outer layer of the helmet and the plastic parts solely with water, a mild plastics cleaner or dishwashing liquid, and a soft cloth. Rinse visors with water before cleaning and clean them using a mild dishwashing liquid or similar and a soft cloth.

CAUTION: Do not use any abrasive sponges or similar!

WARNING: Never clean any part of the helmet or visor with solvents, petrol, acids, etc., as this can have negative effects on the protective function.

5.1 Cleaning of the headband cover

In order to secure a certain degree of operational hygiene, cleaning of the headband cover is recommended as required. With the textile version, the headband must be taken out as described in point 4.2.1 and then the covering removed from the headband by loosening the fastening points. Both textile components can be washed in a washing machine at 60 °C. (wash the parts in a laundry net with mild detergent; do not use fabric softeners). Alternatively, the complete inside liner (plastic + textile) can be washed at 60 °C in the washing machine. If the headband cover is leather, clean it by wiping the band with a cloth moistened with suitable material; leather parts must not be washed. During reassembly of the textile components, care must be taken that when closing the attachment points, the joint points towards the helmet and is therefore not visible from the outside. During reassembly of the textile components, care must be taken that when closing the attachment points, the joint points towards the helmet and is therefore not visible from the outside. Subsequently, the headband is reinserted into the helmet using the reversed removal procedure.

5.2 Chinstrap cleaning

The chinstrap should be cleaned as required. To remove the chin strap, it must be turned inwards by 180° and pushed upwards (figure 2). Now the chin strap can be snapped out of the helmet band as shown in figure 3.



Figure 1



Figure 2 and 3: Dissassembly / Assembly

The assembly takes place in reverse order. Following the opening of the neck strap (adjacent to the adjustment mechanism), the chinstrap can be slipped out and then washed in a washing machine at 60 °C.

During reassembly, it is recommended that first the neck strap should be fixed and then the chin strap should be installed as described above (see figures 1-3). Finally, the chinstrap should be adjusted to the ideal position as described in Section 4.3.

6. SPARE PARTS

All spare parts can be simply exchanged.

Face shield transparent	157350
Face shields gold-plated	157351
Eye protection transparent	15735402
Eye protection tinted	15735403
Headband with cloth cover	157359
Cloth cover for headband	15737001
Inner lining (complete)	157363
Chin strap	1573707

EN

7. CARE, REPAIR AND MAINTENANCE, LIFE EXPECTANCY

7.1 General

As a general principle, the instructions and rules in the user information provided with every helmet supplied to the customer apply. It is important to strictly observe all the instructions in the user information to ensure user safety. Rosenbauer accepts no liability for damage caused by failure to observe the user information and individual items of the user information.

7.2 Inspection

As a rule, the helmet, the interior trim and the accessories should be inspected for signs of damage before and after every operation. You must not use a damaged helmet or damaged helmet parts; defective parts must be replaced immediately. After each operation where the helmet has been exposed to unusual stress (e.g. impact, knocks, dropping, other types of force, direct exposure to flame, high and/or extended exposure to heat, exposure to chemicals, contact with molten metal and others), all helmet components must be carefully inspected before re-deploying the helmet. This check must be performed by a suitably trained member of staff; note that Rosenbauer offers appropriate staff training. All helmet components must be inspected carefully and damaged parts must be renewed without exception before the helmet is reused. We recommend performing this check every 2 years and logging the inspection and replacement of helmet components. Never use a damaged helmet, it might not provide the protection you expect! Helmet components must immediately be replaced by original parts if one of the following criteria applies, or other visible damage exists:

Helmet shell + visor

- a) Cracks of any kind
- b) Missing components

- c) Grooves or scratches deeper than 1mm
- d) Blistering
- e) Major surface damage due to excessive heat or flame exposure
- f) Substantial damage to the protective coating
- g) Damage to individual components

Interior trim, chin strap, neck protection

- a) Cracks of any kind
- b) Missing components
- c) Damage, reduced stability of closures, fasteners and fixings
- d) Damage to textile components due to cuts, tears, wear, fraying or similar
- e) Damage to seams
- f) Damage to Velcro fasteners
- g) Major discoloration of components
- h) Damage to individual components

7.3 Service life

The length of the useable life of this helmet will be affected by the types of material used in its construction and the environments in which the helmet is used and stored. All fire fighting helmets in the HEROS series have excellent ageing resistance, assuming that they are used and inspected properly. Rosenbauer fire fighting helmets do not have a specific service life expectancy as it is a variable factor that is affected by issues such as weather, storage, operational conditions and thermal and mechanical stress. To ensure as long a service life as possible, always observe the rules and instructions published in the user information, and replace defective or worn helmet parts with original parts in the course of ongoing inspection. In addition to this, the helmet must always be cleaned after use (see user information), stored well and protected against exposure to light, UV-radiation, humidity, exhaust gases etc., and kept in a dry and clean environment. For older helmets that have been in service longer, note that any evaluation of the service life can only take the operations, requirements, stresses, standards etc. into consideration that were in force when the helmet was first released. Also note that the helmet should only be exposed to stress covered by the appropriate legislation and helmet inspection rules that applied when the helmet was first released. HEROS fire fighting helmets can be used for a very long time assuming you observe all the instructions in the user information and also assuming ongoing care and maintenance and replacement of all defective parts. The production date of our helmets is shown in the date pictogram on the interior of the helmet.

Attention: The visor features anti-fog coating on the inside. The visor and the coating must be meticulously cared for at regular intervals with warm water, a soft cloth and, if

necessary, mild dishwashing liquid. Visors should never be cleaned when dry or using aggressive or abrasive materials. Even with proper care, this coating has a limited resistance with corresponding use. Detachment of the inner display coating does not represent a defect; in this case it is recommended you replace the visor.

8. REPAIR INSTRUCTIONS

8.1 Chinstrap replacement

As described in Section 5.2, the chinstrap can be removed and mounted without tools and then reinserted using the reverse procedure. The chinstrap is then to be properly adjusted as explained in Section 4.3.

8.2 Visor replacement

Firstly, the two screws (hexagonal socket) must be loosened. (see Fig. 15/16) The visor should then be removed from its anchorage (see Fig. 17).

A new visor is then inserted, between helmet strap and helmet shell onto the seating bolts and the supports pushed into the plastic lugs. These are then secured by the holding screws. (WARNING: Take care that the enclosed spring washers sit properly!)



8.3 Eye protection visor replacement

To change out the eye protection visor, disassembling the inner lining as described under point 4.2.1 is recommended. (see Fig. 18 and 19). Subsequently, loosen the two holding screws (hexagonal socket) of the eye protection visor anchorage and exchange the visor. Then re-



install the entire interior harness using the reverse procedure.

8.4 Replacement of the complete interior harness

As described in Section 4.2.1, loosen the four fixing points, remove the shaft of the mechanism from the turning knob and then take the entire interior harness out of the helmet. Reinsertion takes place using the reverse procedure.

8.5 Neck protection mounting

The neck protection is secured at three points (left, right and centre rear). To attach the neck protection, first, insert the attachment clips of the plastic strips on the left and right sides into the provisioned holding loops, see Fig. 20.



The rear fixing pins are now easy to place into the holder, see Fig. 21. Disassembly occurs in the reverse order.



9. ORDER NUMBERS: HEROS-TITAN

Destignation:	OrderNo:
HEROS-titan luminescent	157300
HEROS-titan fluorescent red	157301
HEROS-titan high-visibility luminous yellow	157312
HEROS-titan blue	157304
HEROS-titan black	157305
HEROS-titan white	157306
HEROS-titan red - RAL 3020	157308
HEROS-titan yellow - RAL 1018	157309
HEROS-titan white with black comb	157310
HEROS-titan chrome	157311

Helmet strips 3M Scotch Lite 580 E:

Color: red	157364
Color: silver	157365
Color: yellow	157366
Color: blue	157367

Accessories:

Standard neck protection	157369
Complete neck protector	15736808
Complete neck protector, three layers	15736802
Helmet lamp LED	157349
Face shield transparent	157350
Face shield gold-plated	157351
Eye protector transparent	15735402
Eye protector tinted	15735403
Leather headband cover	15737003
Mask adapter	157331
Leather chin cap	156871
Set of straps	156862
LED lamp UK 3AA, explosion proof	307859
Velcro patch for helmet lamp UK 3/4AA	1566202
LED lamp Parat PX1	307864
Velcro patch for helmet lamp Parat PX1	30786401

Helmet communication kit:

Savox, HC-1	156651
Savox, HC-2	15665101
Impact com	1566xx

Imtradex	15665306
Holmco	15686323
Savox MPH	156668



10. TRANSPORT AND PACKAGING:

In separate box with protective wrap

Manufacturer:

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