



# HEROS

Fire fighting helmets certified to EN 443:2008,  
EN 16471:2013, EN 16473:2013

- Highest protection level
- Safety and comfort for every situation

 **rosenbauer**



# Rosenbauer Helmet Systems



Rosenbauer has more than 20 years experience with protective helmets. Several hundred thousand HEROS fire helmet systems are already in use around the world, providing fire fighters with optimum head protection.

Both helmet systems HEROS-xtreme and HEROS-smart have been developed for the hardest of operations and surpass the requirements in EN 443:2008.

The HEROS-xtreme full protection helmet ensures maximum safety in operations, with the impact-resistant helmet shell providing maximum stability.

In addition to the exemplary high protection level of the HEROS series, this ¾ shell helmet is characterized by its particularly low weight, good ventilation and high wear comfort.

## ■ Performance characteristics

	HEROS-smart	HEROS-xtreme
EN 443:2008	Yes	Yes
EN 16471, EN 16473	Yes	Yes
Helmet type	Typ A/3b (¾-shell)	Typ B/3b (full shell)
Size adjustment from outside	■	■
Size	51-65	51-65
Face protection visor as per EN 14458	□	■
Safety goggles as per EN 14458	□	□
Neck protector	□	■
Edge protector	□	□
Helmet stripes	□	□
Emblem	□	□
Lamp holder integrated	–	■
Lamp holder as accessory	□	□
Mask adaptor integrated	–	■
Helmet headset	□	□
Leather lining	□	□
Comfort padding chin strap	□	■

■ standard □ optional – unavailable



HEROS-xtreme: full shell



HEROS-smart: ¾-Shell



# HEROS-xtreme

Safety for extreme situations.



**With countless of important details, the HEROS-xtreme is one of the best fire fighting helmets in the world:**

- Certified to EN 443:2008 helmet typ B/3b, EN 16471, EN 16473
- High impact and penetration resistant helmet shell
- Ergonomic inner lining
- Trapezoidal chinstrap for better stability
- Easily adjustable helmet size from outside
- Face shield and eye protection visor\*
- Revolutionary helmet lamp system\*

\*optional

**Tested and certified:**

- Helmet type B/3b
- EN 443:2008
- E2E3C\*\*\*
- CE 0158
- EN 14458 (Visors)
- EN 16471
- EN 16473
- CE 0299



**Robust glass-fiber reinforced plastic helmet shell**

- Unique glass fibre reinforced composite material
- High strength and impact resistance at extreme temperatures
- Tested for structural fire fighting and fire container operations

**After flame engulfment (approx. 1,000 °C, 10 seconds):**

- No structural damages
- Full protection
- No damage of the inner lining
- No afterburn > 5 sec.
- Test head temperature only 35 °C!



Shock absorption



Flame engulfment

**Size adjustment from outside**

- Easily adjustable helmet size (51 – 65 cm)
- Size adjustable ratchet headband for excellent wearing comfort
- Adjustment possible from the outside even when wearing gloves



Two visors for every operation\* – Both visors are also suitable for wearers of spectacles

**Visors tested and certified as to EN 14458:2004.**

The following optional requirements are satisfied by both visors:

- |                |   |
|----------------|---|
| 2-1.2          | UV protection level   |
| -30 °C +120 °C | Applied extreme temperatures                                |
| T              | Penetration resistance at extreme temperatures (120 m/sec.) |
| K              | Anti-scratch  |
| N              | Anti fog  |
| Ω              | Electrical isolation  |



## ■ Bone conduction communication kit\*

Excellent voice transmission even at high noise level.

### Communication kit **IMPACT-COM**

- Microphone and speaker in one housing mounted next to the ear
- Voice is recorded over a bone conduction microphone at the side of the head
- Large PTT switch, which can also be pressed with underarm or elbow
- Communications unit is fastened to the side of the chin strap by velcro fastener
- Communication kit can be changed from one helmet to another



Communication kit *IMPACT-COM*

### Communication kit **SAVOX**

- Microphone directly on the head mounted in the helmet net, speaker mounted next to the ear
- Voice is recorded over a bone conduction microphone at the back of the head
- Different PTT buttons available (please refer to “Options”)
- Communication kit integrated in the helmet

\* optional



Communication kit *SAVOX*

## ■ Mask attachment



Suitable for all common breathing masks.



# HEROS-xtreme

## Maximum equipment.

### Internal features

- High-comfort padding for the prevention of pressure points even during longer operations
- Best possible hearing and heat sensitivity in combination with excellent ear protection
- Optimum weight distribution
- Excellent wearer comfort
- Made of NOMEX®/Viscose FR (heat- and flame resistant, sweat absorbent, machine washable with 40 °C)

### Trapezoidal chinstrap

- Ergonomic, optimised 3-point chinstrap (100 % NOMEX®, heat and flame resistant)
- Integrated ear protection
- (NOMEX®/Viscose FR (heat and flame resistant, sweat absorbent, machine washable with 40 °C)

### Neck protection

- Heat- and flame resistant material
- Also available as all-round protection (model “Holland”)



### Fully integrated helmet lamp

By pressing the HEROS-Button the lamp can be detached easily.

- Latest LED technology
- Extremely powerful high-tech beam
- Explosion-proof  
Ex II 2 G Ex ib IIC T4 Gb  
Ex II 2 D Ex ib IIIC T 135°C Db
- Helmet lamp is easily detachable and can also be used as a hand-lamp

# HEROS-smart

**Safe. Stable. Light.**

Developed for technical operations and for fire fighting operations.

## Helmet shell

- Glass fibre reinforced composite material
- High strength and impact resistance at extreme temperatures

## Visors

- Certified as to EN 14458
- Extensive facial protection visor (optional)
- Eye protection visor (optional)



### Tested and certified:

- Helmet type A/3b
- EN 443:2008
- EN 16471
- EN 16473
- ISO 1673:2011
- Additional test: electrical insulation (E2E3)
- Additional test: chemical resistance (C)
- Additional test: -30 °C (\*\*\*)
- Visor tested according to EN 14458







### Optimized wearer comfort

- Ergonomically optimized headband
- Very good fit to individual head shape due to size-adjustable headband
- Fatigue-free wear

### Size adjustment from outside

- Easily adjustable helmet size
- Adjustment possible from outside even when wearing gloves
- Required setting can be changed quickly depending on the operation

### Trapezoidal chin strap for an even better fit

- Ergonomic, optimized 3-point chinstrap
- Heat and flame resistant material
- Adjustable to several positions for a stable and secure fit
- Machine washable



### Inner lining

- Individual adjustment of the wearing height with height-adjustment headband and cradle net
- High-comfort padding for comfort to head pressure points even during extended operation time
- Best possible hearing and heat sensitivity
- Optimum weight distribution
- Excellent wearer comfort
- Heat and flame resistant material
- Sweat-absorbent, machine-washable headband

## Order data HEROS-xtreme

### Helmet colours

156800	Luminous
156801	High visibility red, RAL 2005
156802	High visibility yellow, RAL 1026
156804	Blue, RAL 5015
156805	Black, RAL 9004
156806	White, RAL 9016
156807	Silver, RAL 9006
156808	Red, RAL 3020
156809	Yellow, RAL 1018

### Visors

156854	Eye protector, clear
15685401	Eye protector, tinted, for sun protection
15685101	Face shield, gold coated, mounted instead of standard visor
157049	Helmet lamp
156862	Clamping Strip Set (1 pair), for mask adaption
15686802	All round neck protection (model „Holland“), mounted instead of standard neck protection

### Helmet trims (double), made of 3M Scotchlite

156864	Red
156865	Silver
156866	Yellow
156867	Blue

### Accessories

15687003	Inner lining, made of leather instead of textile inner lining
156871	Chin guard, made of leather
156873	Edge guard, Black
156843	Carrying bag
156876	Protection hood PBI, for extreme operations
156831	Mask Adapter Set "Duo", instead of standard mask adapter

### Communications Kit IMPACT-COM

15665612	Impact Com, consisting of upper part with microphone and speaker, lower part with PTT-button. Comes without radio plug.
15665405	Radio plug Motorola GP300 (other radio plugs on request)
156858	Fixing kit for IMPACT-COM

### Communications Kit SAVOX

(Helmet harness Order No. 15686301 is required!)

156651	SAVOX upper part with microphone and speaker
15665201	PTT-button C-C500, with microphone and speaker, for Motorola GP 300 (further Radio plugs on request), even useable without headset.
156653	PTT-button C-C400, without microphone and speaker, for Motorola GP 300 (further Radio plugs on request), only useable with SAVOX upper part!
15686301	SAVOX helmet harness, mounted instead of standard harness
15686302	SAVOX helmet harness, refitting set



15685401 / 157049 / 156864



156876



156831



156871



156873



15665612 / 15665405



15665201



156651



156653

HEROS-xtreme comes complete with neck protection, face shield and user guide, but without helmet trims and without lamp.



## Order data HEROS-smart

### Helmet colours

157000	Luminous
157001	High visibility red, RAL 2005
157002	High visibility yellow, RAL 1026
157004	Blue, RAL 5015
157005	Black, RAL 9004
157006	White, RAL 9016
157008	Red, RAL 3020

### Visors

15685001	Face shield, clear, mounted onto the helmet
156850	Face shield, clear, as spare part
156854	Eye protector, clear, mounted onto the helmet
15685402	Eye protector, clear, as spare part
15685401	Eye protector, tinted, mounted onto the helmet
15685403	Eye protector, tinted, as spare part

### Helmet trims (double), made of 3M Scotchlite

157064	Red, mounted onto the helmet
157065	Silver, mounted onto the helmet
157066	Yellow, mounted onto the helmet
157067	Blue, mounted onto the helmet
15706401	Red, as spare part
15706501	Silver, as spare part
15706601	Yellow, as spare part
15706701	Blue, as spare part

### Fire & Rescue lettering, height: 2 cm

157091	Black
157092	Red
	Other letterings on request
156873	<b>Edge guard</b> , mounted onto the helmet shell, made of Silicone
	<b>Helmet crests</b> upon request

### Neck protector, heat- and flame resistant material

15686906	Neck protector, mounted
15686906	Standard neck protector, as spare part

### Kopfbandummantelung

157700	Head band lining made of textile, as spare part
15687002	Head band lining made of leather, as spare part
15687003	Head band inner lining, made of leather instead
156871	Chin guard, made of leather



157002 / 15685001



157002 / 157064 / 1568906 / 1570917

