




Dräger HPS® 7000 H1

Firefighter Helmet

Technical Data Sheet



Variants and scope of delivery	Dräger HPS® 7000 Basic	Dräger HPS® 7000 Standard	Dräger HPS® 7000 PRO
Side function plate - Variants			
Integrated face guard	Yes	Yes	Yes
Integrated eye guard	No	No	Yes
Option to use as a mask-helmet-combination (MHC)	No	Yes	Yes
Option to mount the integrated helmet lamp Dräger HPS® FlashLight	Yes	Yes	Yes
Option to mount lateral a standard helmet lamp (PX series or Adaro)	No	Yes	Yes
Option to mount the rear light Dräger HPS® BuddyLight	Yes	Yes	Yes
Option to mount the integrated helmet communication system Dräger HPS®-COM	Yes	Yes	Yes

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Helmet and components			
Helmet shell size(s)	<p>2-helmet-shell size concept for optimal consideration of individual ergonomic values based on world-wide anthropometric data. Continuously adjustable to individual head sizes via adjustment wheel positioned on the outside of the helmet shell featuring a safety function to prevent unintentional adjustment.</p> <p>H1: for head sizes 50 to 62 cm (50/51 cm when using separate padding)</p> <p>H2: for head sizes 56 to 66 cm</p> <p>Based on global anthropometric data, the helmet size H1 is suitable for more than 90 percent of the users in the target group.</p>		
Weight	Variant/size	Size H1	Size H2
	Basic	approx. 1.360 g (+/- 3%)	See Technical Data Sheet size H2
	Standard	approx. 1.430 g (+/- 3%)	See Technical Data Sheet size H2
	PRO	approx. 1.540 g (+/- 3%)	See Technical Data Sheet size H2
	<i>Weight specifications <u>without</u> optional accessories, e.g. integrated helmet lamp or neck protector.</i>		
Dimensions	Variant/size	Size H1	Size H2
	Basic	Width: 243 mm Length: 332 mm Height: 243 mm	Width: 264 mm Length: 355 mm Height: 258 mm
	Standard / PRO	Width: 271 mm Length: 332 mm Height: 243 mm	Width: 292 mm Length: 355 mm Height: 258 mm
	<p>The drawings show: 1) A top-down view of the helmet shell with a horizontal dimension line labeled 'Width'. 2) A front view of the helmet shell with a horizontal dimension line labeled 'Width'. 3) A side view of the helmet shell with a vertical dimension line labeled 'Height' and a horizontal dimension line labeled 'Length'.</p>		
Helmet shell material	<p>Composite consisting of fibreglass-reinforced material (PA-GF) and additionally reinforced with aramid webbing, high-temperature resistant, i.e. ambient temperatures up to 300°C do not lead to changes in the shape of the helmet shell.</p>		

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Helmet and components	
Shock absorption system	<p>Hybrid shock absorption system consists of two different components: foam plus suspension strap system:</p> <p>a) Rigid foam damping element made of 2-component polyurethane (PUR), firmly glued into the helmet shell.</p> <p>b) Comfort mesh net made of high-strength and heat-resistant polyester or alternatively a three-layer comfort pad made of meta-aramid with strap system</p>
Helmet colours	<p><u>a) Standard colours:</u></p> <ul style="list-style-type: none"> • White (RAL 9010) • Red (RAL 3000) • Zinc yellow (RAL 1018) • Signal blue (RAL 5005) • Black (RAL 9005) • White aluminium (RAL 9006) • Yellow green (RAL 6018) <p><u>b) Fluorescent colours:</u></p> <ul style="list-style-type: none"> • Fluorescent yellow (RAL 1026) • Fluorescent orange (RAL 2005) <p><u>c) Luminescent colour:</u></p> <p>Luminescent (similar to RAL 110)</p> <p><u>d) Colours with dual function:</u></p> <p>Luminescent-yellow (similar to RAL1016)</p> <p><u>e) Metallized surface:</u></p> <p>Chrome (silver metallic shiny)</p>
Helmet shell paint system	<p>The paint system of the painted helmet shells consists of a three-layer structure of primer, topcoat paint and clear lacquer based on polyacrylate.</p>
Interior design	<p>The helmet interior consists of the following subassemblies:</p> <p>Front and back retainer ring, head size adjustment system with front and back carrier ring, retention system/ harness and suspension strap system</p> <p>All materials are skin-friendly, washable and heat-resistant. All textile components are tested for harmful substances according to OEKO-TEX[®]-Standard 100 class 2.</p> <ul style="list-style-type: none"> • 4-Point-Harness with straps and padding in the cheek area made of aramid <ul style="list-style-type: none"> ➤ Continuously adjustable neck straps with clamp buckles made of nylon ➤ Continuously adjustable chin strap with 2-piece harness buckle in color Dräger blue made of glass fibre reinforced polyamide (PA-GF) and hook-and-loop fastener made of flame-resistant polyamide (PA) • Continuously adjustable head carrier ring made of polyamide (PA) encased in padded synthetic leather and spring support in the back of the head for adjusting to individual head sizes and shapes • Comfort mesh net made of high-strength and heat-resistant polyester or alternatively a three-layer comfort pad made of meta-aramid (Nomex[®] Comfort, as upper side), para-aramid (as insulation material) and an aramid-viscose mixture (as inner lining). Both versions have a Nomex[®]/ Kevlar edging tape and are mounted to the helmet interior with a 4-point-strap suspension system made of meta-aramid and secured with Velcro[®] fastener which also allows an individual height adjustment of the helmet.

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<p>Interior design</p>	<ul style="list-style-type: none"> • Front and back retainer ring made of glass-fibre reinforced polyamide (PA-GF) (Nomex[®] is a registered trademark of DuPont, OEKO-TEX[®] is a registered trademark of OEKO-TEX Service GmbH)
<p>Eye and face protection</p>	
<p>Integrated face guard</p> 	<p>Visor made of approx. 2,9 mm high temperature resistant Apec[®] material (PC), continuously swivelling up and down with 3 indexed positions, with multiple coatings (permanent anti-fog coating inside and permanent anti-scratch coating outside), approved in accordance with EN 14458:2018, with highest possible optical quality (optical class 1), grip zone protrudes over the helmet shell</p> <p><u>New variants for size H1</u> – with launch in 01/2022</p> <ul style="list-style-type: none"> • Clear AS/AF • Gold-R1 AS/AF (with radiant heat protection level R1) • Gold-R2 AS/AF (in preparation) <p>(Apec[®] is a registered trademark of Covestro)</p>
<p>Integrated eye guard</p> 	<p>Visor made of approx. 3,2 mm high temperature resistant Apec[®] material (PC), with soft pad edge protection made of EPDM, with multiple coatings (permanent anti-fog coating inside and permanent anti-scratch coating outside), continuously swivelling up and down approved in accordance with EN 14458:2018, with highest optical quality (optical class 1), horizontally adjustable in 2 positions for spectacle wearers or persons with prominent face shapes, operation via lever on both sides on the outside of the helmet</p> <p><u>New variants for size H1</u> – with launch in 01/2022</p> <ul style="list-style-type: none"> • Clear AS/AF • Tinted AS/AF <p>(Apec[®] is a registered trademark of Covestro)</p>
<p>Optional accessory components</p>	
<p>Neck Protectors</p> 	<p>Neck protectors with sewn-in adapter rail for simple and secure attachment to the neck protection holder on the helmet shell via 4 push buttons.</p> <p>Available in the following design versions:</p> <ul style="list-style-type: none"> • Short, close-fitting aramid version with integrated fold • Extremely heat-resistant Alu-aramid version in different lengths • 3-layer Dutch version made of aramid fabric

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Optional accessory components	
<p>Integrated helmet lamp Dräger HPS® FlashLight</p> 	<ul style="list-style-type: none"> • 3W high performance LED- lamp, highly heat- and flame-resistant • Hands-free operation • Optimal wearing comfort of the helmet with helmet lamp due to well-balanced weight distribution • Optimal illumination of the direct working area • Light beam in direct viewing direction • Reflector with antidazzle function optimally reduces the dazzling of teammates during operation • On /off switch on the right and left side - no accidental switching on or off possible • Integrated function and battery test • Battery warning during use
<p>Lateral attached standard helmet lamps</p> 	<ul style="list-style-type: none"> • High performance lamps of series Dräger PX1, Dräger PX1 Shorty and Dräger PX2 with LED technology • Powered by commercially available AA or AAA alkaline batteries • Adaptation to the helmet possible on left and/or right side via an adapter with angle adjustment in three positions • Adaption of different lamp types and manufacturers possible, e.g. Dräger PX series, UK 4AA, PeliLite 1800, Adaro L-5/L-10/L-30 etc.
<p>Helmet rear light Dräger HPS® BuddyLight</p> 	<ul style="list-style-type: none"> • Helmet rear light with LED technology as a warning and indicator light • Adapted to the back side of the helmet via an adapter with a bayonet-type connector fitted to the helmet shell by double-sided adhesive tape • Seven modes in three colours (blue, white and red) that are either continuously on/off or flashing • Powered by commercially available CR2032 coin cells
<p>Integrated helmet communication system Dräger HPS®-COM</p> 	<ul style="list-style-type: none"> • Specially developed for Dräger firefighting helmets • Modular system (2 base units + 4 microphone-options = 6 variants) for a variety of application • Easy, fast and secure adaptation via a robust metal clip, no tools needed • Excellent audio performance/ speech quality, specially adapted to human voice • Very robust and compact design with housing made of Polyamide (PA) • Park position for the boom mic for stand-by operation

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Optional accessory components	
<p>Reflective stripes / Marking and labelling</p> 	<ul style="list-style-type: none"> • Good visibility and thus increased safety in applications with poor visibility conditions • Customised design incl. customer logo on front plate label • Made of heat-resistant, highly flexible, durable and retro-reflective 3M Scotchlite™ foils from the 580 series • Customised lettering made of dimensionally stable, non-reflecting Scotchcal™ Opaque graphic film Series P100 von 3M • Available in different colours
Transportation and storage	
<p>Helmet carrying bag</p> 	<p>The helmet carrying bags offers protection during transport, have an inner compartment and a business card pocket. They are made of polyester, padded with velour and have a reinforced bottom.</p> <p>The carrier bags are available in two sizes:</p> <ul style="list-style-type: none"> • large for two helmets and accessories or • small for one helmet and accessories. <p>The small bag also has a detachable, adjustable shoulder strap.</p>
<p>Helmet pouch</p> 	<p>Lightweight pouch to protect and transport a helmet</p>
Service, Maintenance and Logistics	
<p>RFID</p>  <p>Barcode</p> 	<p>RFID transponders and barcode labels in two sizes are optionally available for clear identification of the helmet, e.g. for use in logistics and asset management.</p>
<p>Washing bag</p> 	<p>To protect the helmets during washing in industrial tumbling washing machines with drawstring and cord stopper.</p>
<p>Repair paint sets</p> 	<p>Repair paint sets are available in various helmet colors to repair small helmet shell paint damages, eg. paint chipping</p> <p>Content: 10 ml</p>

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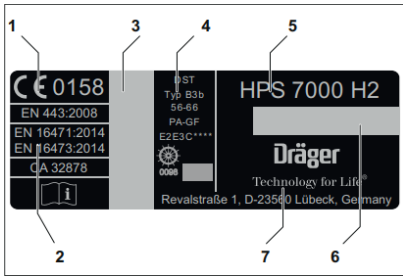
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Training		
Helmet protection cover 	To protect the helmet against mechanical and thermal impacts and thus increase the service life of the helmet during high demanding training application (eg. flash-over training) - <u>for training purposes only!</u>	
Approvals and markings		
Approval and certification of the helmet system	EN 443:2008 Type B 3b	Helmets for firefighting in buildings and other structures, full-shell helmet with integrated face guard according to EN 14458, with and without neck protector
	DIN 58610:2014	Mask-Helmet-Combination with all Dräger full face masks of series Dräger Panorama Nova und Dräger FPS 7000
	EN 16471:2014	Firefighters helmets – Helmets for wildland fire fighting
	EN 16473:2014	Firefighters helmets – Helmets for technical rescue
	(EU) 2016/425	European Regulation on Personal Protective Equipment (PPE)
	CA 32.878	Brazilian standard on firefighting helmets
	EAC	Standard for firefighting helmets in the Eurasian Customs Union with EAC conformity mark (countries: Russia, Belarus, Armenia, Kazakhstan, Kyrgyzstan)
	2014/90/EU	Marine Equipment Directive (MED)
	SOLAS II-2/10.10., IMO RES. MSC.327(90)	International maritime resolution for helmets for firefighting on board ships
Optional characteristics and markings	E2	Electrical insulation strength of the wet helmet and helmet shell
	E3	Indication of the non-conductive surface of the helmet shell
	C	Chemical resistance
	****	The fire helmet is designed for use at low temperatures up to -40 °C
		Marking (ship wheel) due to approval according to the Marine Equipment Directive (MED)

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Service, cleaning and logistics	
Service life	<p>Firefighting helmets of the Dräger HPS® 7000 series <u>do not have a binding end of service life</u>. The real and maximum achievable service life is highly depending on environmental factors such as the conditions of storage, use, cleaning, revision and maintenance at the customer, which Dräger cannot influence.</p>
Logistic information	<ul style="list-style-type: none"> Each helmet is marked with an individual Dräger serial number on the CE certification label inside the helmet <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <ol style="list-style-type: none"> 1 Approval body 2 Standards by which the approval is granted 3 Serial number 4 Various markings (see table below) 5 Helmet type and helmet size H1 or H2 6 Date of manufacture 7 Manufacturer </div> </div> <ul style="list-style-type: none"> GTIN identification can be found on the label of the packaging carton. Optional marking of the helmet with Barcode label or RFID transponder is possible
Cleaning	<p>The helmet can be cleaned manually or within industrial washing machine systems complete or partially disassembled.</p> <p>The manual cleaning and disinfection process is described in the Instructions for Use provided with every helmet as well as in the Technical Manual of the product.</p> <p>Dräger has tested and approved two cleaning methods for machine cleaning and disinfection of this product: reconditioning in a tumbling washing machine or in a spray nozzle type washing machine. The defined process parameters and technical conditions are described in the Technical Manual of the product.</p>
Packaging	Packed in folded box with an Instruction for use with each helmet.
Customs tariff number	65061010000
Country of origin	CZ (Czech Republic)