Features and Benefits Rev. 1 – July 15th, 2015





Gallet F1 XF helmet sets the new standard in firefighter head protection with significant innovative enhancements:

- Sophisticated new design to offer best in class protection, comfort and adjustability
- Eye and face protection with unique adjustments for enhanced protection, fit and comfort
- Modularity for reduced cost of ownership and increased flexibility
- A modern design that is stylish and integrates functionalities in a way never seen before

With the Gallet F1 XF MSA is capitalizing on an outstanding expertise of millions of fire helmets sold and used day by day around the globe. Over 200 firefighters in 25 countries contributed directly with their experience and advice to the development of this new product. Furthermore the close cooperation of various specialized MSA design centers creates synergies in the protection of head, eye, face, respiratory, hearing protection and communications that the Gallet F1 XF integrates and translates in a new dimension of benefits for enhanced user satisfaction.

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### Reliable design providing superior protection

Protection from all types of hazards	• Shell made from high heat resistant engineered thermoplastic with water- based paint coating layer proven to provide best protection against mechanical, thermal, flame, chemical and other typical hazards	
Maximum performance to reduce risk of injuries	<ul> <li>Aramide reinforced impact liner with significantly extended coverage on crown and lateral areas, exceeding European standard requirements</li> <li>Reduced transmitted force to the head by additional suspension system</li> </ul>	
Gap free protection	<ul> <li>Excellent coverage of helmet shell and face shield, ocular visor, neck and throat protection to provide all around protection from impacts, projections, heat and flames</li> </ul>	

### Maximum comfort through innovative inner design

New headband design with advanced adjustments

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Ease of size adjustment	<ul> <li>Protected yet easy to reach positioned adjustment knob</li> <li>Ergonomic wheel to operate with gloved hand</li> </ul>
	<ul> <li>Fine adaptation to optimize wearing comfort in different situations without doffing the helmet.</li> </ul>
Maximum comfort for long lasting operations	<ul> <li>Flexible headband to optimize force distribution on head circumference to avoid headaches and ensure stable fit.</li> </ul>
Efficient adaptation to individual physiognomy and preferences	<ul> <li>Front headband angle adjustment to optimize helmet balance and to ensure best fit with respiratory masks.</li> <li>Rear headband 3 position angular adjustment optimizes fit on headshape for best grip and comfort</li> <li>Wearing height adaptation optimizes fit to head helpenet.</li> </ul>
Intuitive, efficient and robust	<ul> <li>Robust yellow adjustment parts to guide the user to an optimum adaptation for maximum wearing comfort and safety</li> </ul>





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New ergonomic chinstrap design	
Ease of adjustment with choices to optimize comfort	<ul> <li>New pivoting chinstrap for perfect wearing angle with and without face piece</li> <li>Length adjusters are easy to reach and operate with gloved hands, pulling the straps forward.</li> <li>Selection of Nomex or Leather comfort paddings depending on climate and user preferences</li> </ul>
Ergonomic helmet design	
Optimum fit for all head sizes	<ul> <li>Two helmet sizes to ensure optimal fit on all head sizes, particularly with adapted weight and balance for small heads</li> </ul>
Freedom to operate	<ul> <li>Design allowing free movement in all directions without interferences and a wide field of view.</li> </ul>
	<ul> <li>Spacious interior for better wearing comfort, hearing capability and communication system integration</li> <li>Optimized conter of gravity, wearing angle</li> </ul>

• Optimized center of gravity, wearing angle and integrated accessories for unmatched comfort in all operating conditions





### Most ergonomic and safe face protection

High wearing comfort with extended protection	<ul> <li>Innovative kinematics with gap-free protection on the lower face, while providing maximum inner space for wearers with corrective spectacles</li> <li>Trully full face coverage for effective protection, including chin area</li> </ul>
Best solution for various application requirements	<ul> <li>Highest optical quality (class 1) for comfortable long lasting use</li> <li>Selection of clear optics for best vision also in the dark or a stylish metalized face shield with additional protection from radiant heat and glare</li> <li>High quality anti fog coating to ensure perfect vision in all situations</li> <li>Wide field of view in all directions for best safety in all operations (e.g. climbing up/down)</li> </ul>
Strong protection against multiple hazards	<ul> <li>Very high mechanical and thermal strength for best protection against typical hazards including heat, impacts, chemical splash and electrical conductors</li> <li>Anti-scratch coating for extended life time</li> </ul>



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#### Safe and ergonomic eye protection

Unique combination of
maximum comfort and
protection

Intuitive handling

Upgrade, cleaning, exchange in a few seconds

High protection and functionality

- Patented dual pivot adjustment system to ensure gap-free protection on all face shapes, even for users wearing corrective spectacles
- Dedicated big handling areas allow easy adjustment in one movement, even with gloved hands without affecting the field of vision.
- Safe yet extremely efficient plug and use concept to install visor within seconds for upgrade, exchange and cleaning.
- Robust design to provide effective protection from mechanical impacts or projections e.g. in rescue operations.
- Highest optical quality (class 1) for long term use, e.g. in traffic accidents
- Protective anti-scratch coating to ensure proper vision and extended life time
- Uniquely wide field of vision in all directions for highest safety in all situations (e.g. climbing up/down)







#### Modularity for reduced cost of ownership

Up to 70% time savings in maintenance procedures

- Gallet F1 XF is designed to be assembled and dissassembled with time savings of up to 70% over comparable helmets.
- The modular design allows for quick inspection, cleaning and part replacement e.g. on easily removable chinstraps, paddings and visors.
- Two helmet sizes that share majority of components

Upgrade with state-of-theart integrated options

- Both helmet sizes using the same components (except for helmet shell, impact liner and suspension) to facilitate spare parts management and training needs
- Gallet F1 XF is prepared for upgrades according to the users needs. Dedicated communication equipment, hearing protection, lighting can be installed in an optimal way and without tools.





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### Unique integrated light module

Light where you need it !	<ul> <li>2 LEDs on each side to support work in front of firefighter (e.g. reading signs) as well as towards the ground (e.g. identifying obstacles in the walkway).</li> <li>Light beam with optimal direction to follow head movements, also upwards</li> <li>No blinding of other people, whether teammates or victims at rescue scenes.</li> <li>Increased visibility of firefighter in dark environments</li> </ul>
Fully supports comfort and performance	<ul> <li>Perfectly balanced on left and right, in the lower part of the helmet to avoid neck pain over the time</li> <li>Position less exposed to flames and impacts to ensure longer life time.</li> <li>Operation switch protected by helmet shell yet easy to operate</li> </ul>
Usability and performance ensured	<ul> <li>Short range lighting providing up to 10h continuous operation</li> <li>Safe use in explosive atmospheres as ATEX approved with disposable and rechargeable AAA batteries</li> <li>Flashing light indicator on remaining battery level to ensure performance</li> </ul>
Flexibility to upgrade with perfect add-ons	<ul> <li>Full range of MSA's ATEX approved helmet mounted torches available to install with external lamp bracket.</li> <li>Lamp mounting bracket located in the lower part of the helmet for minimum impact on balance</li> <li>Anti-ejection design enabling tilting of the lamp for best illumination in all situations</li> </ul>

#### **Enhanced communication capabilities**

Optimal integration in the helmet

- State-of-the-art integration of helmet mounted headsets, truly adapted to user needs:
- Bone conductive headset located in the headband for optimum transmission and self adjustment
- Swan neck (boom) microphone with position adjustment to be used with and without mask. Parking position under the helmet shell.
- One or two loudspeakers for enhanced listening comfort







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Safety and flexibility

- Push-to-Talk (PTT) Interface for over 100 models of radios
- ATEX approved versions available for use with ATEX approved long range radios
- Hearing Protection with enhanced communication
- Sophisticated level dependent ear muffs with excellent sound reproduction on a safe level (82 dB)
- Combination with communication systems
- Easy to attach to the helmet interior with an optimized fit for comfort and effective noise attenuation

#### Safe and comfortable mask connection

Ready to use with mask- helmet combination	• The helmet comes already equipped with connection points to allow the use of a practical mask-helmet combination.
Adustability for optimal fit and comfort	<ul> <li>Three adjustment positions allow optimization of comfort and fit of attached breathing masks</li> </ul>
Safe and ergonomic attachment	<ul> <li>Edges on the helmet shell and mask connector help guiding the user when attaching the mask</li> </ul>
	<ul> <li>Optimized shape of the connection point for easier insertion of the mask hook</li> </ul>
	<ul> <li>Mechanical design preventing unproper attachment</li> </ul>

• Optimized for use with MSA masks

#### Design adaptable to your needs

Flexibility with a full choice of colours	<ul> <li>Helmet and front plates available in 10 colours including hi-visibility colours for enhanced safety and to fullfill requirements for identification of certain ranks and functions within the brigade.</li> </ul>
Design your own helmet	<ul> <li>For large quantities front plate can be fully customized to allow a unique design and a perfect corporate look</li> </ul>
	<ul> <li>Customization through coloured metal badge or direct printing to enhance image of fire brigade.</li> </ul>
	<ul> <li>High quality reflectants in various colours</li> </ul>

• High quality reflectants in various colours enhance visibility and can be customized e.g. to identify functions and ranks.





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Gallet F1 XF has been developped with fire fighters for fire fighters.

Hundreds of firefighters around the world have been involved in all phases of the project. Carefully selected materials and new concepts have been validated in numerous tests by laboratories and under realistic operating conditions to create user oriented long-lasting solutions.

Trust. Durability. Gallet F1 XF.