

G1 AirElite Full Face Mask

AirElite 4h – Closed circuit breathing apparatus



With the G1 AirElite we have launched a mask which sets the new state of the art level in comfort and safety. The G1 AirElite is a symbiosis of sophisticated materials and modern design principles and probably the most advanced mask available. Not only is the G1 AirElite backwardly compatible with all existing AirElite devices, it features enabling options to ensure compatibility across the rapidly changing communication marketplace, as new devices become available.

Evolving benefits such as enhanced peripheral vision

Want to see what's coming next? Start with the stairs in front of you!



As mankind has evolved it has been essential to our survival that we are able to detect fast moving objects as quickly as possible – and this of course applies to your operations. Details and colours are perceived accurately only at the centre of our retina, the receptor cells at the outer area of the eye detect motion many times faster, allowing for peripheral vision.

This early-warning system is essential and the G1 is designed to let these signals through without interruption. The G1 lens has been designed to be flat, without convex curving, to avoid any optical refractions and reflections. This reduces distraction for the user, as well as teammates looking at the users face.

In comparison with other masks, the G1 design specifically strives to significantly reduce any distractions to natural perception and behaviour, such as providing this undistracted view. This open field of vision allows easy recognition of the ground in front of the user, enabling dangerous obstacles to be detected before they become an unforeseen threat.

Excellent communication

The new housing ensures that the speech diaphragm is in the ideal position for excellent voice transmission. Due to its size and design it provides a quality of voice transmission which is best in class. The latest evolution of the wiper design, now utilising 'slough of mist' principle not just "wiping off" water and is part of the communication system, as it allows nonverbal communication through a perfect clean lens. The position of the wiper in the housing eliminates any degradation of lens durability, as the coating and the lens is not affected by the wiper or the wiper mechanism.

Getting closer than ever before

Protective equipment for the part of the body which moves the most – the head – should be designed to increase comfort and to avoid distraction, disturbance and interference with natural movements.

It must allow the user to fully concentrate on their tasks.

These improvements have made the G1 one of the most compact mask profiles available:

- Overall size reduced in almost every dimension
- Mask connector moved closer to the mouth
- Reduced overall weight
- Balance point lowered and moved closer to the body
- Reduced risk of entanglement by closing irrelevant gaps



The G1 design improves not only the perceived equilibrium as well as wearing comfort but positively to decrease fatigue symptoms.

All tests confirm the reliability and construction of our proven sealing line concept, closing the gap between face and environment. The broad sealing line of the face blank provides further enhancement and guarantees ultimate tightness.

Bringing the mask connector closer to the mouth optimises its balance point and the attachment angle. This supports natural arm movements while connecting and gives the head more freedom of movement.



Compared to other mask profiles



The G1 offers three sizes and fits almost all face types and sizes around the world. The small, medium and large sizes of the face blank and inner mask can be combined in many configurations for best fit.

Three button colours serve as markers on the harness to provide quick visual identification of each face blank size.

Two harnesses –drivers for speed and flexibility

New 4-point net harness

With decades of experience in harnesses used worldwide, MSA has developed this new aramid net harness. With this harness, the G1 is now revolutionising the way masks are put on, all over the world.

Still with five well defined connection points between face blank and harness, it is now only necessary to adjust four buckles on flexible aramid straps which are connected to a large net piece.

- The design guarantees a similar strong face contact as with any rubber harness
- Robust aramid straps ensure smooth and quick adjustment and prevent hairs being pulled as is often the case with conventional rubber straps
- A comfortable fit is guaranteed:
The required high contact pressure is distributed evenly over the full surface of the large head harness instead of over a few single straps.
- Avoids pressure points from overlapping straps and buckles under the helmet and allows users to comfortably focus on their duties instead of being persistently distracted by pain points.



Depending on personal donning habits, you may save one or even two movements by adjusting only the four buckles. The flexible mesh allows further improvements with simultaneous positioning on the head whilst tightening the buckles, you may reduce donning time by up to 40%.

Optimised 5-point rubber harness

The G1 mask rubber harness offers an increased length of adjustability on the straps.

The size of the latches has also been increased to facilitate easy and secure handling, guaranteeing a strong grip without slipping.



The fundamentals – safety in maintenance

In a challenging environment users must receive reliable signals to ensure the correctness and safety of any steps they take.

For your convenience and for safety reasons, the extremely easy to maintain G1 mask is designed to provide both acoustic and feel feedback when mounting major components such as harnesses or lens frames.

All components are designed to offer ultimate safety while also allowing much quicker maintenance. Typical procedures for maintenance and safe cleaning preparation are reduced.



The robustness of the lens against cleaning and disinfection has been significantly increased. It is now more than 5 times more durable than previous the previous market leading MSA mask lenses.



During washing, the net harness can be pulled over the lens to use the aramid mesh as a protective cover for the lens.

The integrated RFID transponder provides identification for inventory management and allows easy management of your G1 AirElite.