



MSA BlackHawk® Tactical Air Mask



MSA's BlackHawk SCBA Tactical Air Mask sets a definitive standard for self-contained breathing apparatus used in covert law enforcement, government, and military operations and may be used in atmospheres considered immediately dangerous to life and health (IDLH). The BlackHawk SCBA's design combines MSA's vast experience with life-saving SCBA design with needs and requirements of tactical forces. This SCBA eliminates reflections and audible sounds that could compromise the user's position. MSA has created a silent, lightweight, and durable product that is ideal for any operation requiring mobility and stealth. The BlackHawk SCBA is the right tool in situations when performance and reliability count the most.

The BlackHawk SCBA uses a pressure-demand regulator designed to maintain slight positive-pressure of facepiece air during inhalation and exhalation. Positive pressure helps to prevent contaminants from seeping into the facepiece, even if there should be small breaks in the face-to-facepiece seal.

More than a Mask, a Complete SCBA

The BlackHawk SCBA is composed of five major components: facepiece, regulator, silent end-of-service-time-indicator (EOSTI), carrier and harness assembly, and cylinder.



MSA's Ultra Elite® Facepiece

The BlackHawk SCBA Tactical Air Mask uses MSA's advanced Ultra Elite Facepiece, offered in three sizes (small, medium, and large), made of either Softfeel® Hycar™ Rubber or silicone. Nosecups are available in two sizes, standard and large.

The Ultra Elite Facepiece features:

- ▶ An inhalation check valve to prevent exhaled air from entering the mask-mounted regulator, a key feature in cross contamination prevention among multiple users. Any harmful pathogens are kept within an individual's facepiece and do not enter the SCBA second-stage regulator.
- ▶ 83% unimpeded field-of-vision.
- ▶ A molded polycarbonate lens to meet ANSI Z87.1 for optical clarity and impact resistance.
- ▶ A mechanical speaking diaphragm for short-range communication (93% on NFPA test).
- ▶ Five individually-adjustable rubber head harness straps for comfort, fit, security, and safety.
- ▶ Optional Speed-ON® Kevlar Head Harness. This larger harness covers more of the user's head than many other competitive head harnesses to provide superior fit.

Two-Stage Regulators

The BlackHawk SCBA's first-stage regulator reduces cylinder pressure to a level slightly above atmospheric pressure. The second-stage, Firehawk® push-to-connect Mask-Mounted Regulator (MMR), only provides air as needed. The Firehawk MMR is easily connected to the Ultra Elite Facepiece with a simple push.

Design simplicity helps to ensure correct MMR activation within the most extreme conditions. Once the MMR is engaged, the user's first breath activates it. The small profile provides the wearer with excellent mobility and virtually unimpeded vision. MSA's regulator design provides a superior regulator system that is durable, reliable, and easy to maintain.

Nightfighter® Heads-Up Display / EOSTI

The BlackHawk SCBA Tactical Air Mask uses the MSA Nightfighter Display as a silent, low-pressure warning device and as a cylinder pressure gauge. There is no audible pressure warning device on this unit that could compromise concealment. When silence matters most, the BlackHawk SCBA will not give away your position. The system consists of a transmitter mounted on the SCBA's gauge line and a receiver mounted to the Ultra Elite Facepiece. LEDs visible by only the user provide cylinder pressure information. The Nightfighter Display's receiver uses a sensor to detect ambient light levels, allowing LED brightness to automatically adjust intensity. LEDs functioning in intermittent mode are refreshed by depressing the transmitter's refresh button. The unit can also be put in continuous mode if desired.

Carrier and Harness Assembly

MSA offers a very comfortable, durable, and lightweight carrier and harness assembly that distributes weight to the hips rather than the back. The BlackHawk SCBA uses a composite glass fiber-reinforced back plate, ergonomically designed with a spinal pressure relief channel. Waist belt, shoulder straps, and pull straps are constructed of flame- and heat-resistant (FHR) Kevlar material. An FHR chest strap, lumbar pad (swiveling or fixed), and shoulder pads are optional. The cylinder is secured with a Kevlar strap and an over-center latching system. A black FHR shroud encompasses the cylinder and the BlackHawk SCBA pneumatics. A separate FHR shroud covers the Nightfighter Display transmitter. The carrier and harness assembly is designed to keep its wearer concealed and mobile.



Air Cylinders

The BlackHawk SCBA is available in both low-pressure (2216 psi) and high-pressure (4500 psi) operating systems. Carbon cylinders available for use are:

- › L-30 (low-pressure)
- › H-30 (high-pressure)
- › H-45 LP low-profile (high-pressure)
- › H-60 LP (high-pressure)



Additional Options

Quick-Fill® System:

MSA's patented Quick-Fill System makes every MSA SCBA capable of both receiving and donating air. The shoulder-mounted system is an easy way to help those in need or for quickly filling cylinders in tactical situations.

Air-line Option:

For extended-use applications, an air-line accessory is available with choice of five air-line connection fitting types. The air-line can be used to supply air from an independent source up to 300 feet away, thus conserving cylinder air.

CBRN-Hardened Air Mask

The stakes continue to grow with today's chemical, biological, radiological, and nuclear threats (CBRN). A CBRN-hardened version of the BlackHawk SCBA uses all of the same CBRN protective components as MSA's very popular CBRN-approved FireHawk Air Mask. The BlackHawk SCBA has passed CBRN live agent testing, but is not NIOSH CBRN-approved, as it is not NFPA-compliant. MSA has chosen not to seek NFPA compliance on the BlackHawk SCBA due to the redundant low-pressure warning device requirement, a potential safety concern in revealing the user's position during tactical operations.

MSA Rescue Belt System

This emergency egress system, integral to the SCBA waist belt, is now available on the BlackHawk SCBA. The Rescue Belt comes complete with Kevlar line (50 ft. or 75 ft.) and rappelling hardware.

The Assemble-To-Order System

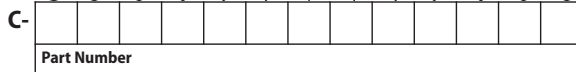
MSA makes it easy to order the exact BlackHawk SCBA Tactical Air Mask to meet your needs. Instead of choosing from a few listed assemblies, you can use the ATO chart to quickly and easily create an assembly part number. All options discussed in this document can be selected from the ATO chart. Toll-free customer support is available by calling MSA Customer Service at 1-800-MSA-2222.

BlackHawk® MMR Air Mask

Ordering Selection Matrix

SCBA Type	Carrier/Harness Assembly	Lumbar Pad/Rescue Belt*	Cylinder	MMR Regulator Type	Air-Line Options	Emergency Breathing System	Facepiece	Nosecup	Head Harness	Communications	HUD Options	Case
BL 2216 BlackHawk Air Mask	A Kevlar B Kevlar with Chest Strap C Kevlar with Shoulder Pads D Kevlar with Shoulder Pads and Chest Strap	0 None 1 Lumbar Pad 2 Swiveling Lumbar Pad A Rescue Belt Standard, 50' E Swiveling Rescue Belt Standard, 50'	0 None 1 30' Carbon 2 30' Carbon less Air	G Firehawk PTC, Solid Cover R Firehawk PTC, Solid Cover, CBRN	0 None 1 Snap-Tite Aluminum 2 Hansen SST 3 Hansen Brass 4 Foster Steel 5 Snap-Tite Locking Aluminum	0 None 1 Quick-Fill Shoulder Mounted	A None B Ultra Elite Hycar, Small C Ultra Elite Hycar, Medium D Ultra Elite Hycar, Large E Ultra Elite Silicone, Small F Ultra Elite Silicone, Medium G Ultra Elite Silicone, Large	0 None 1 Medium 2 Large	0 None 1 Rubber 2 Speed-On	A Standard Speaking Diaphragm B Clear-Command Ready C Clear-Command Amp D Clear-Command Amp/RI (Less PTT)	1 Night-Fighter HUD	0 None 1 Hard Case 2 Soft Case
BH 4500 BlackHawk Air Mask			0 None 1 30' Carbon 2 45' Carbon Low-Profile 3 60' Carbon 4 30' Carbon less Air 5 45' Carbon Low-Profile less Air 6 60' Carbon less Air	Option R can only be chosen if a Hycar facepiece is selected								

*Note: Standard Rescue Belt fits waist sizes up to 54 inches.



Carbon Cylinders

Carbon cylinders feature a unique outer wrap of lightweight, high-performance carbon fiber. This construction reduces cylinder weight by two to six pounds when compared to fiberglass-wrapped cylinders, and by as much as ten pounds when compared to aluminum cylinders. Cylinders are available in four models to accommodate a wide-range of applications.

Ordering Information

P/N	Cylinder Type (cylinder & valve)	NIOSH Service Rating Life	Pressure	Weight (empty)
807586	L-30	30'	2216 psig	7 lb. - 9 oz.
807587	H-30	30'	4500 psig	7 lb. - 3 oz.
10035644	H-45 low-profile	45'	4500 psig	10 lb. - 6 oz.
807588	H-60	60'	4500 psig	12 lb. - 11 oz.

P/N	Emergency Breathing Accessories
485366	Quick-Fill System 3-ft emergency transfill hose in Kevlar pouch

Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



© MSA 2011 Printed in U.S.A.

MSA Corporate Center
1000 Cranberry Woods Drive
Cranberry Township, PA 16066
Phone 724-776-8600
www.msanet.com

Fire Service Customer Service Center
Phone 1-877-MSA-FIRE
Fax 1-800-967-0398

MSA Canada
Phone 1-800-672-2222
Fax 1-800-967-0398

MSA Mexico
Phone 01 800 672 7222
Fax 52-44 2227 3943

MSA International
Phone 724-776-8626
Toll-Free 1-800-672-7777
Fax 724-741-1559

Offices and representatives worldwide
For further information:

