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BlackHAWK[®] **Tactical Air Mask**



MSA's BlackHawk® Tactical Air Mask sets a definitive standard for Self-Contained Breathing Apparatus used in covert law enforcement, government, and military operations that may encounter atmospheres considered immediately dangerous to life and health (IDLH).

The BlackHawk SCBA was developed by combining MSA's vast knowledge of life saving SCBA with strong comprehension of the needs and requirements of tactical forces. This SCBA has been specifically designed to eliminate reflections and audible sounds that could compromise the position of the wearer. MSA has created a silent, light-weight, 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 uses a first-breath activated, "Pressure on Demand" regulator designed to maintain a slight positive-pressure of air inside the facepiece during inhalation and exhalation. This positive-pressure helps 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 is composed of five major components: the facepiece, regulator, the silent End-of-Service-Time-Indicator (EOSTI), carrier and harness assembly, and a cylinder.

Ultra Elite® Facepiece

The BlackHawk Tactical Air Mask uses MSA's advanced Ultra Elite Facepiece. It is offered in a choice of three sizes (small, medium, and large) made of either Sofffeel® 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. This is a key feature in the prevention of cross-contamination among wearers. Any harmful pathogens are kept within an individual's facepiece and do not enter the second-stage regulator
- 83% unimpeded field-of-vision
- A molded polycarbonate lens that meets the ANSI Z87.1 standard for optical clarity and impact resistance
- An excellent mechanical speaking diaphragm for short range communications. (93% on NFPA test)
- Five individually adjustable rubber head harness straps for industry leading comfort, fit, security, and safety
- An optional Speed-On® Kevlar head harness. This larger harness covers more of the users head than many other available head-harnesses, providing a superior fit.



Two-Stage Regulators

The BlackHawk's first-stage regulator reduces the cylinder pressure to a level slightly above atmospheric.

The second-stage regulator, the Firehawk® Push-to-Connect Mask Mounted Regulator (MMR), only provides air as it is needed. The FireHawk MMR is easily connected to the Ultra Elite facepiece with a simple push.

Simplicity of this device ensures correct activation in the most extreme conditions. Once the MMR is engaged, the first breath from the wearer will activate it.

The small profile provides the wearer with excellent mobility and virtually unimpeded vision. MSA has employed the latest engineering advancements to design a superior regulator system that is durable, reliable, easy to maintain, and extremely safe.

Nightfighter Heads-Up Display / EOSTI

The BlackHawk Tactical Air Mask uses the MSA Nightfighter® HUD as a silent low-pressure warning device and as a cylinder pressure gauge. There is no audible pressure warning device on this unit that would compromise concealment.

When silence matters most, the BlackHawk will not give away your position. The system consists of a transmitter, mounted on the SCBA's gauge line and a receiver that easily mounts to the Ultra Elite facepiece. A series of LEDs that can only be seen by the wearer provide cylinder volume information.

The Nightfighter's receiver uses a sensor to detect ambient light levels allowing the LED brightness to automatically adjust intensity. The LEDs function in an intermittent mode and can be refreshed by depressing the refresh button on the transmitter. The unit can also be put in continuous mode if desired.

There is no audible pressure warning device on this unit that would compromise concealment.



Carrier and Harness Assembly

MSA has created a very comfortable, durable, and lightweight carrier and harness assembly that distributes weight to the hips and not the back.

The BlackHawk SCBA uses a composite backplate reinforced with glass fibers, and is ergonomically designed with a channel for spinal pressure relief. The waistbelt, shoulder straps and pull-straps are made of flame- and heat-resistant (FHR) Kevlar material. An FHR chest strap, lumbar pad (swiveling or fixed) and shoulder pads are available as options. The cylinder is secured with a Kevlar strap and an over-center latching system. A black FHR shroud encompasses the cylinder and the BlackHawk pneumatics. A separate FHR shroud covers the Nightfighter 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-fiber cylinders available for use are:

L-30	Stealth (Low Pressure)
H-30	Stealth (High Pressure)
H-45 LP	Low Profile Stealth (High Pressure)
H-60	Stealth (High Pressure)



Rescue Belt

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.

• Airline Option:

For extended-use applications, an airline accessory is available with a choice of five different types of fittings. The airline can be used to supply air from an independent source, up to 300 feet away, thus conserving the air in the cylinder.

• CBRN Hardened Air Mask

The stakes continue to grow with today's Chemical, Biological, Radiological and Nuclear threats. A CBRN hardened version of the BlackHawk Air Mask 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 CBRN-approved by NIOSH, since it is not certified as NFPA compliant. MSA has chosen not to seek NFPA compliance on the BlackHawk SCBA due to the requirement for a redundant low-pressure warning device, a potential safety concern in revealing the position of the user during tactical operations.

• MSA Rescue Belt

This emergency egress system, integral to the SCBA waist belt, is now available on the BlackHawk Air Mask. This 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 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 a part number for an assembly that exactly meets your needs.

All options discussed in this document can be selected from the ATO chart. You can receive toll-free customer support from MSA by calling 1.800.MSA.2222.

BlackHawk® MMR Self-Contained Breathing Apparatus

NIOSH Approved, Non-NFPA Compliant

SCBA Type	Carrier/Harness Assembly	Lumbar Pad/Rescue Belt	Cylinder	MMR Regulator Type	Air-Line Options	Emergency Breathing System	Facepiece	Nose-cup	Head Harness	Communications	HUD Options	Case	
BL 2216 BlackHawk Air Mask	A Kevlar	0 None	0 None	G Firehawk PTC, Solid Cover	0 None	0 None	A None	0 None	0 None	A Standard Speaking Diaphragm	1 Night-Fighter HUD	0 None	
	B Kevlar with Chest Strap	1 Lumbar Pad	1 30' Carbon	R Firehawk PTC, Solid Cover, CBRN Option R can only be chosen if a Hycar facepiece is selected	1 Snap-Tite Aluminum	1 Quick-Fill Shoulder Mounted	B Ultra Elite Hycar, Small	1 Med	1 Rubber	B Clear-Command Ready		1 Hard Case	
	C Kevlar with Shoulder Pads	2 Swiveling Lumbar Pad	2 30' Carbon less Air		2 Hansen SST	2 Hansen SST	C Ultra Elite Hycar, Medium	2 Large	2 Speed-On	C Clear-Command Amp		2 Soft Case	
	D Kevlar with Shoulder Pads and Chest Strap	A Rescue Belt - Standard 50'	0 None		3 Hansen Brass	3 Hansen Brass	D Ultra Elite Hycar, Large			D Clear-Command Amp/RI (Less PTT)			
	B Rescue Belt - Standard 75'	1 30' Carbon	4 Foster Steel		4 Foster Steel	E Ultra Elite Silicone, Small							
BH 4500 BlackHawk Air Mask		C Rescue Belt - Long 50'	2 45' Carbon Low-Profile		5 Snap-Tite Locking Aluminum		F Ultra Elite Silicone, Medium						
		D Rescue Belt - Long 75'	3 60' Carbon				G Ultra Elite Silicone, Large						
		E Swiveling Rescue Belt - Standard 50'	4 30' Carbon less Air										
		F Swiveling Rescue Belt - Standard 75'	5 45' Carbon Low-Profile less Air										
		G Swiveling Rescue Belt - Long 50'	6 60' Carbon less Air										
		H Swiveling Rescue Belt - Long 75'											



Carbon-Wrapped Cylinders

Featuring a unique outerwrap made of lightweight, high-performance carbon fibers, which reduces cylinder weight by two to six pounds when compared to fiberglass-wrapped cylinders and

as much as ten pounds when compared to aluminum cylinders. They are available in five models to accommodate a wide range of applications.

Emergency Breathing Accessories

Quick-Fill 3-foot emergency transfill hose in Kevlar pouch

Part No.

485366

Cylinder Type (Cylinder & Valve)	NIOSH Service Rating Life	Pressure	Weight (empty)	Part No.
L-30	30'	2216 psig	7lb - 9oz.	807586
H-30	30'	4500 psig	7lb - 3oz.	807587
H-45 Low-Profile	45'	4500 psig	10lb - 6oz.	10035644
H-60	60'	4500 psig	12lb - 11oz.	807588

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.



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