

FireHawk® M7 Air Mask



MSA's new **FireHawk M7 Air Mask** represents a true technological achievement in critical personal protection. As firefighters determined the safety requirements that would be needed to meet the new NFPA 1981 and 1982–2007-edition standards, MSA's engineering teams began designing the solutions.

The new FireHawk M7 Air Mask emerged with seven **life-safety** design components built on a **modular** Air Mask platform, developed to **exceed the new NFPA 2007** requirements and provide firefighters with the highest-quality SCBA currently available.

FireHawk® M7 Air Mask

1. TAKING THE HEAT

Although MSA PASS alarms have performed in extreme temperatures for more than a decade, a top priority was to design an alarm that could **really take the heat!** The new M7 alarm (*patent pending*) was developed in cooperation with prominent university acoustic experts, resulting in an emitter that exceeds 95 decibels with solid performance at the NFPA 500F test! Once again, giving you that lifesaving edge in the face of danger.



2. VIRTUALLY "BULLET-PROOF" ELECTRONICS

Like an armor shield, the M7 HUD, Power Module, and Control Module are encased in a proprietary high-temperature impact-grade polymer, providing the highest possible protection against impact and water ingress. Electronics enclosures are permanently sonically **welded** to a hermetic standard and use a high-pressure O-ring to ensure a consistent water-tight seal. The new M7 electronics are virtually "**bullet-proof**" against fire-ground hazards.



3. STRAIGHT-TALK COMMUNICATIONS

We've got you covered with communications, starting with a **high-performance mechanical speech diaphragm**, with performance that exceeds the new NFPA requirements as a stand-alone solution. Backing the mechanical diaphragm is an **electronic amplifier** with an internal facepiece microphone for ultimate clarity. The ClearCommand® Communication System provides clear communication during the most critical times. This Air Mask speaks loud and clear when it comes to communications.

4. FIREGROUND MANAGEMENT

Firefighter accountability systems have never before been as practical, complete, and user-friendly as the MSA **M7 Accountability System**. It's based on the ICM TxR Unit introduced in mid-2006, which has thousands of systems deployed in virtually every type of fire department, and they're performing phenomenally! It displays a full array of visual and audible information for up to 100 firefighters within a one-mile-line-of-site – exactly what incident commanders wanted. Record keeping is also made easy by downloading reports. This crown jewel is available only from MSA!



5. EXTENDED PROTECTION

The new FireHawk M7 Air Mask is not your typical SCBA. Firefighters need to be prepared for the unexpected, and emergency egress from a 2nd-floor or higher can be impossible without the right safety equipment. That's why the new M7 Air Mask offers an NFPA- compliant integrated rappelling system, called the Rescue Belt, providing firefighters with one more lifesaving option in the face of danger.

"Above and beyond" protection is also provided with the CBRN FireHawk MMR. The CBRN FireHawk includes a positive-protection Tetraplex™ shield, to prevent contact between chemical warfare agents and the most vulnerable component of regulators, their thin elastomeric diaphragm. Other "air-wash" approaches may pass in laboratory conditions. The shield provides positive protection against all potential conditions.

External hazards are bad enough without having concerns of spreading illness among firefighters through shared-use SCBA. The Ultra Elite® facepiece protects you against user cross-contamination with MSA's inhalation check-valve: a "**must have**" in modern safety equipment.



**Designed to meet the new NFPA 2007-edition standard.
Determined to exceed your
safety equipment expectations!**

6. LIGHTWEIGHT AND EASY TO USE

Firefighters already have enough weight to carry and gear to maintain, so MSA engineers set out to lighten the load of components, reduce parts counts, **simplify maintenance**, maximize user comfort, and **modularize** the design. The FireHawk M7 Air Mask has a lightweight polymer backplate, with quick-release harness straps, an error-proof cam-lock cylinder attachment, fast change-out electronic components, a large swiveling lumbar pad, and regulators that will fit in the palm of your hand (**less than 30 parts** for the MMR and 14 for the 1st stage). Our time-tested Ultra Elite facepiece has unbeatable comfort, visibility, communications, cross-contamination protection, fit, and seal.

7. PLATFORM FOR THE FUTURE

The FireHawk M7 Air Mask is designed to accept **future technology upgrades**. Included in every M7 electronics ensemble is a 2.4GHz **personal wireless network**, a network that transmits and receives encrypted information over a short-range on a firefighter's body.

This new wireless feature provides the capability to add on future technology that can provide additional information back to incident command through the FireHawk M7 Accountability System. Software can also be upgraded wirelessly in the field, through the M7 wireless network. You never have to worry about radio interference either – we have you covered with a thoroughly-tested RFI shield design that protects against all fireground radio signals. The new FireHawk M7 Air Mask provides you with the best technology today and positions you for well into the future.



FireHAWK® M7 Air Mask

How to Order SCBA: Get the Exact Model You Need

The Assemble-To-Order System

MSA's Assemble-To-Order System (ATO) will make ordering the right mask easier and faster than ever. Instead of choosing from a handful of complete Air Mask assemblies, users can order a custom-made Air Mask with every option exactly as desired. Contact MSA Customer Service Center for details.

FireHawk M7 Air Mask Ordering Selection Matrix (NFPA 1981 and 1982 - 2007 edition compliant, NIOSH 42 CFR Part 84 CBRN certified)

Air Mask Pressure	Carrier/Harness Assembly	Lumbar Pad/Rescue Belt	Cylinder	MMR Type	Emergency Breathing Support	Facepiece	Nosecup	Head Harness	Electronic Communications	Integrated PASS/Telemetry	Case
L 2216	A Single Pull without chest strap	0 None	0 None	A CBRN Firehawk STC, threaded	0 None	A None	0 None	0 None	A None	A PASS with thermal alarm activated	0 None
		1 Swiveling Lumbar Pad	1 3AL Aluminum with air	1 Quick-Fill	1 3AL Aluminum with air	B Hycar Small	1 Medium	B Clear Command Ready with bracket	B PASS without thermal alarm activated	1 Hard Case	
		A Rescue Belt - Standard, 50'	3 30' Carbon with air	2 ExtendAire	3 30' Carbon with air	C Hycar Medium	2 Large	C Clear Command Amp	C PASS, telemetry and thermal alarm	2 Soft Case	
		B Rescue Belt - Mid-Size, 50'	4 3AL Aluminum less air	3 Quick-Fill and ExtendAire	4 3AL Aluminum less air	D Hycar Large	4 Speed-ON with neck strap	D Clear Command Amp/RI	D PASS, telemetry and without thermal alarm		
	B Single Pull with chest strap	B Rescue Belt - Mid-Size, 50'	6 30' Carbon less air	B CBRN Firehawk STC, QC							
		C Rescue Belt - Long, 50'	0 None	C CBRN Firehawk PTC, threaded							
		D Rescue Belt - Standard, 75'	1 30+ Carbon with air	D CBRN Firehawk PTC, QC							
		E Rescue Belt - Mid-Size, 75'	2 30+ Carbon less air								
M 3000	C Double Pull without chest strap	F Rescue Belt - Long, 75'	0 None								
		D Rescue Belt - Standard, 75'	1 30+ Carbon with air								
		E Rescue Belt - Mid-Size, 75'	2 30+ Carbon less air								
		F Rescue Belt - Long, 75'	0 None								
	D Double Pull with chest strap		1 30' Carbon with air								
			2 45' Carbon with air								
			3 45' Carbon low-profile with air								
			4 60' Carbon with air								
H 4500	Options A & B can only be chosen if a rescue belt is selected.		5 30' Carbon less air								
			6 45' Carbon less air								
			7 45' Carbon low-profile less air								
			8 60' Carbon less air								

Part Number A-M7



FireHawk® M7 Responder Air Mask



MSA's new FireHawk M7 Responder Air Mask is uniquely versatile protection that can quickly be transformed into a CBRN air-purifying respirator (APR) or a CBRN powered air-purifying respirator (PAPR). You can change respirator modes as your job changes direction from first response and rescue to scene management and remediation activities.

Firefighters typically are the first to respond to any incident whether it is a residential fire, an accident, or any unknown threat. MSA's FireHawk M7 Responder Air Mask provides the maximum level of protection for CBRN environments. However, that amount of protection is not always needed, especially outside the immediate fire scene. Once the hazard has been assessed, air-purifying respirators (APR) may make the most sense for low concentrations of certain contaminants.

The M7 Responder facepiece is NIOSH approved for the SCBA, PAPR and APR configurations, in accordance with the MSA users instructions. This practical emergency respiratory protection system meets/ exceeds the latest requirements of NFPA and NIOSH standards (see ATO ordering information for details). It's the first and only of its kind, and an emergency responder's dream come true.



The FireHawk M7 Responder Air Mask

Based on the seven life-safety design components built on the FireHawk M7 Air Mask to ensure you of the highest-quality SCBA currently available, giving you that lifesaving edge in the face of danger. This new air mask offers more options than any other product in the industry, combined with the unique CBRN APR and PAPR options.

The FireHawk M7 Responder APR

To convert from SCBA to APR, the canister and breathing tube must be attached to the facepiece. When the SCBA cylinder valve is closed, facepiece valves convert to air-purifying mode through the APR canister. Although the air mask carrier and harness and cylinder may be removed from the user, the MMR regulator must always be connected to the inlet adapter to seal the facepiece inlet port.

The FireHawk M7 Responder PAPR

The CBRN Responder PAPR (Powered Air-Purifying Respirator) system is ideal when you need non-IDLH respiratory protection for an extended period of time (up to 8 hours). This PAPR provides an OSHA-assigned protection factor 20 times greater than APR, due to positive pressure in the mask. Essentially, it combines an industry-leading motor-blower to the Ultra Elite M7 Responder Facepiece, and CBRN canisters for up to 8 hours of air-purifying respiratory protection. Its constant filtered air flow (of at least 115 lpm) improves comfort with a cooling effect, greatly reducing pulmonary stress, and preserving strength and mental acuity. The airflow also prevents fogging in the facepiece, reduces claustrophobia, and allows for extended use in hot and stressful environments.

FireHAWK® M7
RESPONDER®
Air Mask

How to Order SCBA: Get the Exact Model You Need

The Assemble-To-Order System

MSA's Assemble-To-Order System (ATO) will make ordering the right mask easier and faster than ever. Instead of choosing from a handful of complete Air Mask assemblies, users can order a custom-made Air Mask with every option exactly as desired. Contact MSA Customer Service Center for details.

FireHawk M7 Responder Air Mask Ordering Selection Matrix (NFPA 1981 and 1982 - 2007 edition compliant, NIOSH 42 CFR Part 84 CBRN certified)

Air Mask Pressure	Carrier/Harness Assembly	Lumbar Pad/Rescue Belt	Cylinder	Emergency Breathing Support	Facepiece and MMR Regulator	Nosecup	Head Harness	Electronic Communications	APR/PAPR Kits	Integrated PASS/Telemetry	Case	
L 2216	A Single Pull without chest strap	0 None	0 None	0 None	B Hycar Small	0 None	0 None	A None	A None	A PASS with thermal alarm activated	0 None	
		1 Swiveling Lumbar Pad	3 30' Carbon with air	1 Quick-Fill	C Hycar Medium	1 Medium	2 Speed-ON less neck strap	B Clear Command Ready with bracket	B APR 18" tube	B PASS without thermal alarm activated	1 Hard Case	
		6 30' Carbon less air	2 ExtendAire	2 Quick-Fill and ExtendAire	D Hycar Large	2 Large	4 Speed-ON with neck strap	C Clear Command Amp	C APR 22" tube with PAPR kit	C PASS, telemetry and thermal alarm	2 Soft Case	
	M 3000	B Single Pull with chest strap	0 None	0 None	If choosing an Air Mask Pressure M, M is not compatible with Quick-Fill.	ExtendAire options are currently unavailable at this time.			D Clear Command Amp/RI	E APR 22" tube with PAPR kit	D PASS, telemetry and without thermal alarm	
			1 30+ Carbon with air	1 30+ Carbon with air								
			2 30+ Carbon less air	2 30+ Carbon less air								
		C Double Pull without chest strap	0 None	0 None								
			1 30' Carbon with air	1 30' Carbon with air								
			2 45' Carbon with air	2 45' Carbon with air								
	D Double Pull with chest strap	3 45' Carbon low-profile with air	3 45' Carbon low-profile with air									
		4 60' Carbon with air	4 60' Carbon with air									
		5 30' Carbon less air	5 30' Carbon less air									
H 4500	Options A & B can only be chosen if a rescue belt is selected.	6 45' Carbon less air	6 45' Carbon less air									
		7 45' Carbon low-profile less air	7 45' Carbon low-profile less air									
		8 60' Carbon less air	8 60' Carbon less air									

A-M7R										
Part Number										
Quantity										

Special note regarding approvals: approvals are only available (and were obtained) for each component (SCBA, APR and PAPR) as an independent CBRN respirator. Although the APR, PAPR and SCBA have been evaluated for seamless convertibility in a contaminated environment, as well as to the NFPA heat and flame test criteria, there is currently no standard for which to seek this type of system approval. Users are advised to convert among modes in an uncontaminated environment. Please see user's instructions for specific approval information and limitations.

Ultra Elite M7 Responder Facepieces			
with ClearCommand Bracket		without ClearCommand Bracket	
Small	10093927	Small	10093924
Medium	10093926	Medium	10093923
Large	10093928	Large	10093925

PAPR only	
10046570	CBRN Canister
10094024	C420 PAPR Kits (less facepiece and cartridge), includes C420 PAPR, belt, air-flow indicator and breathing tube

Spare/Replacement M7 HUD	
M7 Responder HUD	M7 Responder HUD with bracket
10093911	10093912

Accessories for C420 PAPR	
B-20040-001	NiMH Rechargeable Battery Kit (2 NiMH batteries, charger and cap)
M-20020	LiSO2 Battery
10094021	6" Breathing Hose Assembly
S-20036	NiMH Rechargeable Battery Pack
B-20090-001	NiMH Rapid Battery Charger
B-30060-001	NiMH Rechargeable Battery Cap Assembly
S-30019	Web Belt Assembly
B-10079-001	PAPR Carrying Case

APR only	
10046570	CBRN Canister
10094016	APR Breathing Tube, 18"
10094023	APR Breathing Tube, 22"

AirHawk® II Industrial Air Mask

New!**Industrial SCBA with enhanced options to fit many budgets.**

The new AirHawk II Air Mask is built upon MSA's established AirHawk MMR Air Mask and is a lightweight, durable, and economical SCBA for many industrial IDLH (immediately dangerous to life or health) applications. This SCBA fits any budget by keeping its lower-cost options while offering many new choices not offered with any other industrial air mask. In addition, the AirHawk II Air Mask is available in both low-pressure and high-pressure versions.

MSA's AirHawk II Air Mask is a pressure-demand apparatus designed to maintain a slight positive air pressure inside the facepiece during inhalation and exhalation. Positive pressure helps to prevent contaminants from seeping in and around the facepiece, even if small breaks in the face-to-facepiece seal should occur. The AirHawk II Air Mask is built from six major components: facepiece, carrier and harness assembly, cylinder, first-stage regulator, mask-mounted regulator, and End-of-Service-Time-Indicator (EOSTI).

Facepiece

MSA offers you the choice of two facepieces, the proven Ultra Elite Facepiece or new industrial Advantage 4000 Facepiece for the AirHawk II Air Mask. Choose from three facepiece sizes (small, medium or large) in either Hycar Rubber or silicone rubber. Nosecups are available in two sizes, standard and large.

The Ultra Elite Facepiece features:

- a one-way check valve preventing exhaled air from entering the mask-mounted regulator
- a molded polycarbonate lens
- a mechanical speaking diaphragm for short-range communications
- five adjustable rubber straps for exceptional head comfort, security, and safety
- optional heat-resistant Kevlar hairnet-style head harness

The Advantage 4000 Facepiece features:

- adapters to convert the Advantage Facepiece to a Twin-Cartridge Respirator (using Advantage Cartridges) or an RD40 Facepiece
- a one-way check valve preventing exhaled air from entering the mask-mounted regulator
- a molded polycarbonate lens
- four-point silicone head harness for exceptional comfort and security
- optional polyester net head harness

Airframe Carrier and Harness Assembly

MSA's durable AirFrame Carrier and Harness assembly comes standard with large side handles and a central attachment point to pull workers to safety in rescue scenarios. The AirFrame Carrier and Harness distributes the SCBA's weight over the user's hips for comfort and stability. The composite backplate is made of glass fiber-reinforced thermoset plastic and is ergonomically designed with a spine strain relief. Key components are detachable without special tools.

The assembly's harness components are available in nylon or high-strength Kevlar. Shoulder straps feature easy-to-release friction buckles to positively retain pull straps. A center-pull waist belt system is also incorporated into its design. This harness also provides optional shoulder pads, lumbar pad, and

chest strap, making this unit the most comfortable industrial air mask on the market today.

The cylinder band is available in nylon or Kevlar and is secured by an adjustable nylon buckle, allowing the band to retain various cylinder sizes. An optional open-form stainless steel cylinder band provides rapid drop-in cylinder replacement, eliminating webbing adjustments and clips.

Cylinders

MSA offers a choice of three low-pressure (2216 psig) 30-minute-rated cylinders for use with this SCBA. Choose carbon-wrapped, fiberglass hoop-wound, or all-aluminum construction cylinders. High-pressure (4500 psig) carbon-wrapped cylinders are available in 30-, 45- or 60-minute durations.

First-Stage Regulator

The PR-14 Regulator is designed with the fewest number of parts in the industry, with Teflon-coated anodized valve bodies to minimize internal component friction and maximize service life. The PR-14 Regulator has only 14 replaceable parts and can be maintained without special tools.

Mask-Mounted Regulator

The second-stage Firehawk Regulator features a slide-to-connect (S-T-C) or push-to-connect (P-T-C) regulator attachment to meet the widest preference ranges. An integrated shut-off prevents cylinder air loss when disconnecting the second-stage regulator from the facepiece. The FireHawk Regulator has only 22 replaceable parts and can be maintained without special tools.

EOSTI

MSA's Audi-Larm™ Audible Alarm is an air-actuated continuously-ringing warning bell that automatically sounds when the air-supply cylinder reaches 25% of its rated service life.

Options

- Optional air-line port, designed to accept an air-line connection from an independent air source

- Optional wireless Heads-Up Display provides the user with the remaining volume of cylinder air through four colored LEDs
- Optional Rapid Intervention Crew (RIC) System enables quick refilling (less than a minute) of an SCBA cylinder from a mobile compressor or cascade system, or you can also transfill between two SCBA wearers
- Optional Emergency Egress Rescue Belt, integral to the SCBA waist belt, features a Kevlar line (50 ft. or 75 ft.) and rappelling hardware
- Optional shoulder-mounted Quick-Fill System EBS accessory offers SCBA cylinder refill from a mobile compressor or cascade system and also allows transfilling between two SCBA wearers
- Optional ICM Tx Integrated PASS/HUD Transmitter features the Personal Alert Safety System (PASS) and the HUD Transmitter combined within a single housing



AirHawk® II Industrial Air Mask

AirHawk II SCBA

Comes with nylon harness with chest strap, low pressure (2216 psig)

Facepiece	Cylinder	Hard Case	No Case
Ultra Elite, medium Hycar, rubber head harness	Aluminum - 30 minutes	10095800	10095801
Ultra Elite, medium Hycar, Speed-On head harness	L30 Stealth carbon cylinder (30 minutes)	10095802	10095803
Adv 4000, medium Hycar, net head harness	Aluminum - 30 minutes	10095804	Call
Adv 4000, medium Hycar, rubber head harness	Aluminum - 30 minutes	Call	10095805
Adv 4000, medium Hycar, net head harness	L30 Stealth carbon cylinder (30 minutes)	10095806	10095807

Storage Cabinets

Two unit and single unit wall mounting case. Chemical resistant ABS plastic case resists weathering, moisture, and corrosion to ensure SCBA stay in ready-to-use condition.



Storage Cabinets

10053102	Double case for SCBA's supplied with LP30, HP45, HP60 and low profile cylinders
10053103	Double case for SCBA's supplied with HP30 cylinders only
10052744	Single case for SCBA's supplied with LP30, HP45, HP60 and low profile cylinders
10052745	Single case for SCBA's supplied with H30 cylinders only

AirHawk® II Industrial Air Mask Assemble-To-Order (ATO) 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	Gauge/Integrated PASS	Case
A2L 2216 AirHawk II Air Mask	A AirFrame, Nylon Harness, Fabric Band, Plastic Buckle, Double Pull	0 None	0 None	A FireHawk PTC, single hose, solid cover	0 None	0 None	A None	0 None	0 None	A None	A Pressure Gauge	0 None
		1 Shoulder Pad	1 3AL Aluminum	1 FireHawk PTC, QC, solid cover	1 Snap-Tite, Aluminum	1 Quick-Fill Shoulder Mounted	B Ultra Elite, Hycar, Small	1 Medium	1 Rubber, less neckstrap	B Clear Command Ready	B ICM Tx with Heat Sensor	1 Hard Case
		2 Standard Lumbar Pad	2 Hoop-Wound	2 FireHawk PTC, QC, solid cover	2 Hansen SST	2 ExtendAire (EBS) with Dual Quick Connect	C Ultra Elite, Hycar, Medium	2 Large	2 Net, less neckstrap	C Amp	C ICM Tx without heat sensor	2 Soft Case
		3 Shoulder & Standard Lumbar Pad	3 30' Carbon	3 FireHawk STC, single hose, solid cover	3 Hansen Brass	3 Shoulder Mounted Quick Fill & ExtendAire (EBS) with Dual Quick Connect	D Ultra Elite, Hycar, Large		3 Rubber, with neckstrap	D Amp, RI	D ICM TxR with heat sensor	
		4 Swiveling Lumbar Pad	4 3AL Aluminum, Less air	4 FireHawk PTC, QC, solid cover	4 Foster Steel		E Ultra Elite, Silicone, Small		4 Cloth, with neckstrap		Communication s not compatible with Advantage 4000 Facepiece	
		5 Shoulder & Swiveling Lumbar Pad	5 Hoop-Wound, less air	5 FireHawk STC, QC, solid cover	5 Snap-Tite Locking Aluminum		F Ultra Elite, Silicone, Medium					E ICM TxR without heat sensor
		6 30' Carbon, less air	6 30' Carbon, less air	6 FireHawk PTC, threaded hose, solid cover	6 Foster SST		G Ultra Elite, Silicone, Large		Nosecup stanard with Advantage 4000 Facepiece	Neckstrap not available with Advantage 4000 Facepiece		F Pressure Gauge with HUD
						S FireHawk PTC, threaded hose, solid cover	Cannot use Air-Line Option if Rescue Belt is chosen.					G ICM TX with heat sensor with HUD
						T FireHawk, STC, threaded hose, solid cover						H ICM TX without heat sensor with HUD
												J Advantage 4000, Hycar, Medium
												K Advantage 4000, Hycar, Large
												L Advantage 4000, Silicone, Small
		A2H 4500 AirHawk II Air Mask	H AirFrame, Kevlar Harness, Steel Band, Plastic Buckle, Double Pull, W/Chest Strap	0 None	0 None	FireHawk slide regulators not compatible with Advantage 4000 Facepieces			M Advantage 4000, Silicone, Medium			
1 30' Carbon	1 30' Carbon						N Advantage 4000, Silicone, Large				L HUD Only	
2 45' Carbon	2 45' Carbon											
3 45' Carbon, low profile	3 45' Carbon, low profile											
4 60' Carbon	4 60' Carbon											
5 30' Carbon, less air	5 30' Carbon, less air											
6 45' Carbon, less air	6 45' Carbon, less air											
7 45' Carbon, low profile, less air	7 45' Carbon, low profile, less air											
8 60' Carbon, less air	8 60' Carbon, less air											

Note: Standard Rescue Belt fits waist sizes up to 54 inches. Long Rescue Belt fits waist sizes up to 74 inches.

Part Number

NIOSH Approved.

Non NFPA Compliant.

BlackHawk® Tactical Air Masks



BlackHawk® Tactical Air Mask

The BlackHawk Tactical Air Mask is especially designed for tactical situations. Certain BlackHawk features eliminate reflections and/or audible sounds that would compromise concealment—in other words, it is black, sleek and silent.

Ultra Elite® Facepiece

- All-black Ultra Elite facepiece, available in Hycar or silicone rubber
- Three sizes of facepiece with two sizes of black nose cups
- HUD System mounting bracket
- Speed-ON® Kevlar Head Harness

Mask-Mounted Regulator

- Firehawk® Regulator with Push-to-Connect feature
- Neoprene intermediate pressure hose
- Variable flow bypass system

EOSTI / Gauge

- Nightfighter Heads-Up Display functions silently as the low pressure warning device and the cylinder pressure gauge*
- System consists of a transmitter mounted on the gauge line and a receiver that mounts on the facepiece
- A series of LEDs provides the user with cylinder volume information
- LEDs function in an intermittent mode and can be refreshed by depressing the refresh button on the transmitter

* There is no audible low-pressure warning device on this unit.

Harness and Carrier

- Composite backplate reinforced with glass fibers
- Large side handles on the backplate for pulling the wearer to safety
- Waistbelt, shoulder straps and pull strap are all made of flame and heat-resistant (FHR) Kevlar material
- Optional FHR shoulder pads and lumbar pad (solid or swiveling)

- Optional FHR chest strap
- Adjustable Kevlar cylinder retention strap with over-center latching system
- Cylinder shroud that encompasses the cylinder and Air Mask pneumatics. Shroud is made of Advance FHR material

Cylinders

- The BlackHawk Air Mask 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, H-30 Stealth, H-45 Low-Profile Stealth, H-60 Stealth

Quick-Fill® System Option

- A shoulder-mounted Quick-Fill System option is offered

Workline Accessory

- For extended-use applications, an air-line accessory is available with your choice of five different types of fittings

Rescue Belt

- Emergency egress system integral to the SCBA waist belt
- Includes Kevlar line and rappelling hardware

Carrying Case

- A hard case or soft case are offered for storage purposes

CBRN Protection

- Optional CBRN hardened facepiece and regulator assembly
- Positive protection from CBRN agents
- Same CBRN components as the very popular FireHawk Air Mask

BlackHawk® MMR Self-Contained Breathing Apparatus Assemble-To-Order (ATO) 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 Black-Hawk Air Mask	A Kevlar	0 None	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	0 None	0 None 1 Rubber 2 Speed-On	A Standard Speaking Diaphragm	1 Night-Fighter HUD	0 None
	B Kevlar with Chest Strap	1 Lumbar Pad	1 30' Carbon				B Ultra Elite Hycar, Small	1 Med		B Clear-Command Ready		1 Hard Case
	C Kevlar with Shoulder Pads	2 Swiveling Lumbar Pad	2 30' Carbon less Air				C Ultra Elite Hycar, Medium	2 Large		C Clear-Command Amp		2 Soft Case
BH	4500 Black-Hawk Air Mask	D Kevlar with Shoulder Pads and Chest Strap	0 None	Option R can only be chosen if a Hycar facepiece is selected			D Ultra Elite Hycar, Large			D Clear-Command Amp/RI (Less PTT)		
		A Rescue Belt - Standard 50'	0 None				E Ultra Elite Silicone, Small					
		B Rescue Belt - Standard 75'	1 30' Carbon				F Ultra Elite Silicone, Medium					
		C Rescue Belt - Long 50'	2 45' Carbon Low-Profile				G Ultra Elite Silicone, Large					
		D Rescue Belt - Long 75'	3 60' Carbon less Air									
		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'												

C

Part Number

SCBA Key Components



Ultra Elite Facepiece

Heads-Up Display (HUD)

When you open your Air Mask's cylinder valve, the HUD automatically activates, displaying the cylinder pressure reading in 25% increments.

ClearCommand Communications System

MSA's ClearCommand Communications System is designed specifically to meet the modern communications needs of firefighters. It features an internally mounted microphone coupled with a large-diameter (50mm) amplifier speaker for optimal clarity and volume. Using a proprietary circuit design, the system delivers more than twice the volume of a facepiece alone. Mounted in an "out-of-the-way" position, the ClearCommand System doesn't block vision or mechanical communication. The Ultra Elite's mechanical voicemitter is still fully functional, even with the system installed.

Facepiece Assemblies for FireHawk M7 Air Masks

Ultra Elite® Facepiece

The MSA Ultra Elite Facepiece offers an effective combination of comfort and performance.

Designed to provide exceptional peripheral and downward vision, the Ultra Elite Facepiece features a super-soft facepiece texture for a smooth and comfortable fit. It also resists chemical attack and temperature extremes, and withstands rugged day-to-day use without tearing and ripping.

The design of the Ultra Elite Facepiece is based on extensive anthropometric studies of the face-length, temple-width and chin-width data from more than 8,000 individuals. The result is a facepiece that provides improved seals against a wide range of facial contours.

To provide a secure, comfortable fit, the facepiece utilizes five adjustable straps with stainless steel, field-replaceable buckles that resist chemical attack. The straps also feature slightly larger adjustment tabs that are easier to manipulate, even with gloves on.

For slip-on convenience, the Ultra Elite Facepiece can be equipped with the Speed-ON® Facepiece Harness. Made of flame- and heat-resistant Kevlar Fabric, the harness features a hair-net type, five-point suspension that can be easily and securely adjusted at each point.

Lenses on MSA full facepieces are molded from polycarbonate, and a special super hardcoating provides a tough, durable facepiece lens to resist scratching.



HUD Display

Firehawk® MMR

The Firehawk MMR, MSA's mask-mounted regulator assembly, is available with two different attachment systems, the Firehawk MMR truly redefines ease-of-use and ease-of-maintenance, combined with outstanding performance.

The Firehawk second-stage regulator features a unique Slide-To-Connect (STC) attachment system that allows firefighters to hang the regulator on the facepiece in the "ready position," then simply push it into the facepiece when SCBA air is needed. Doffing of the regulator, while wearing gloves, is also easy with two large release buttons that automatically turn-off the flow of air as the regulator is doffed. A dual-swivel feature on the pressure hose provides maximum freedom-of-head movement and the silicone hose material ensures hose flexibility even at very cold temperatures.

In addition to the STC system, MSA also offers a second connection option for the Firehawk Regulator, the Push-to-Connect (PTC). The PTC's Adapter self-centers the Firehawk regulator and the loud dual sound of the regulator engaging onto the facepiece provides you with confidence that the Firehawk PTC is securely attached to your facepiece—an action that takes just seconds, when seconds count!

Maintenance is also a breeze, considering the Firehawk design requires no tools, adhesives, or sealants, and has approximately 70% fewer parts as compared to other regulators on the market. Additionally, there are no internal adjustments required. Any adjustments to the regulator may be accomplished at a single adjustment point through the outlet port of the regulator.

Ease of use and maintenance, combined with outstanding performance, makes the Firehawk MMR clearly the product of choice.

Ultra Elite M7 Facepiece, Speed-ON Head Harness, Nosecup and M7 HUD Bracket

	Firehawk STC		Firehawk PTC		
	Standard speaking diaphragm	ClearCommand ready		Standard speaking diaphragm	ClearCommand ready
Small	10084689	10084821	Small	10084690	10084822
Medium	10084823	10084825	Medium	10084824	10084826
Large	10084827	10084829	Large	10084828	10084830

Spare / Replacement M7 HUD

10091446	M7 HUD
10091447	M7 HUD with bracket

Emergency Breathing Systems



Emergency Egress System

Rescue Belt

In a continuation of MSA's pursuit of firefighter safety, the Rescue Belt is being introduced to the fire service. This is an NFPA-compliant emergency egress system that is unique to MSA. The belt can be integrated into the carrier and harness assembly of the MSA Vulcan or Airframe Carrier and Harness assemblies. A 50 foot or 75 foot Kevlar line with a descender and carabiner is weaved into the belt to allow a trapped fire fighter to escape to either the ground or to a floor below the fire. The belt is available in three lengths, standard (56 inches), mid-size (66 inches) and long (76 inches).

Rescue Belt

	Standard Size Rescue Belt	Mid-Size Rescue Belt	Long Rescue Belt
50' Kevlar Line	10052766	10071003	10052767
75' Kevlar Line	10052768	10071004	10052769



Carrier & Harness Assembly

FireHawk M7 Carrier and Harness Assembly

The one component of any SCBA that has the most impact on firefighter comfort is the carrier and harness assembly. MSA is introducing a new carrier and harness assembly that places an emphasis on firefighter comfort while maintaining the robustness and reliability that is expected in the fire service. The carrier and harness comes standard with large side handles and a central attachment point for pulling firefighters to safety in rescue scenarios. The swiveling lumbar pad provides maximum freedom of movement and comfort when crawling or climbing.

The assembly utilizes the proven pieces from previous generations of Air Masks such as the tunneled shoulder straps for hose containment, and tri-bar slides for easy removal/installation of the waist belt and shoulder straps.

All units are equipped with double-pull waist belts and an optional chest strap is available.

FireHawk M7 Carrier and Harness Assemblies

Part No.	Pressure		Chest Strap	Swiveling Lumbar Pad
	Low	High		
10086663	X		Yes	Yes
10086662		X	Yes	Yes
10086664	X		Yes	
10086665		X	Yes	

Accessories

10083134	Replacement FireHawk M7 Lumbar Pad
10012167	Chest Strap



Cylinders

Carbon-Wrapped Cylinders

Carbon-wrapped Cylinders are the lightest SCBA air cylinders ever developed by MSA. They feature 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.

Cylinders for SCBA

Part No.	Cylinder Type (Cylinder & Valve)	NIOSH Service Rating Life	Pressure	Weight** (empty)
807586	L-30* Carbon-Wrapped	30-minute	2216 psig	8 lb – 0 oz.
816115	L-30+* Carbon-Wrapped	30-minute	3000 psig	9 lb – 8 oz.
807587	H-30* Carbon-Wrapped	30-minute	4500 psig	7 lb – 4 oz.
807570	H-45* Carbon-Wrapped	45-minute	4500 psig	9 lb – 7 oz.
10035644	H-45 Low-Profile* Carbon-Wrapped	45-minute	4500 psig	9 lb – 10 oz.
807588	H-60* Carbon-Wrapped	60-minute	4500 psig	11 lb – 12 oz.
469619	Fiberglass Hoop-Wound	30-minute	2216 psig	13 lb. – 0 oz.
809872	Aluminum	30-minute	2216 psig	18 lb. – 0 oz.

*These cylinders are capable of custom options.

**All weights shown are approximate.

For more information see Bulletin 0108-11-MC. See Bulletin 0108-13-MC for information on **custom-logoed cylinders** for your MSA Air Mask.

MSA Accountability System

Accountability is key to every firefighter's safety on a fire scene. MSA's new optional Accountability System revolutionizes fireground safety by combining the latest computer software with a high-performance radio module and the field-proven technology of MSA's ICM Tx Integrated PASS.

A new way to monitor vital information

- Each MSA base station can monitor up to 50 firefighters, and you can use multiple base stations on a single computer.
- The FireHawk M7 Air Mask with telemetry transmits to incident command the firefighter's name, team assignment, cylinder pressure, service-time remaining, PASS alarms (motion or manual), thermal alarms, battery status, radio connectivity, and evacuation acknowledgement.

A fireground management system

- Personalized ID tags for each firefighter tell incident command exactly who is on scene.
- An integrated PAR (personnel accountability report) timer helps manage radio calls to each team.
- Incident command can manually add firefighters who are not wearing an SCBA or mutual aid firefighters, so all personnel can be accounted for.

Intuitive and easy to use

- Assign firefighters to teams by clicking on a firefighter's icon and dragging it to another team.
- A volume of critical information is available at a glance of the screen, due to the large number of firefighters that can be displayed and the pictorial format of the information.
- Receive both audible and visual indications of critical events such as PASS alarms or low-pressure alarms.



A two-way evacuation feature

- Incident command is assured that firefighters receive all evacuation messages. When incident command transmits the alarm through the FireHawk M7 Air Mask, they'll know the firefighter received it, because the unit automatically sends a confirmation message to the base station.
- By simply pressing a button on his/her own control module, a firefighter can send a manual confirmation to acknowledge that they have received and understand the critically important evacuation message.
- Firefighters will hear the evacuation alarm on their own personal PASS device. Also, visual indications in the HUD and an icon on the control module will alert the firefighter that it is time to evacuate.
- An individual firefighter, a team of firefighters, or all firefighters can be evacuated with the click of a button.
- Although certain concrete and steel commercial structures can challenge any radio signal, MSA's Accountability System coverage with radio technology provides highly reliable performance for a 1-mile line-of-sight range.
- Due to the spread-spectrum design, it does not interfere with other high-band radio frequency equipment.
- For additional safety, both base station and firefighter modules have an icon message to inform users if a firefighter falls out of radio signal range, so that alternate accountability measures, such as voice radio contact with teammates, can be taken.

Accountability System Base Station Kits

10072240	Accountability Base Station Kit (includes software, magnetic antenna kit, USB cable, wall mount cable, and 8-24 volt power cable)
10098767	Accountability Base Station Kit (includes software, fixed antenna kit, USB cable, wall mount cable, and 8-24 volt power cable)

MSA's M7 Accountability System revolutionizes fireground safety by combining the latest computer software with a high-performance radio module and the field-proven technology of MSA's ICM TxR Integrated PASS.

Accountability System

10083876	M7 Control Module Reader / M7 ID tag writer
10083875	M7 ID tags
10075756	Antenna kit with magnetic base
10098766	Antenna kit with fixed base
10063880	USB cable
10049410	8-24 volt, power cable
10047342	Wall mount power cable

Field Maintenance and Repair



MSA offers a complete program for maintenance and repair of MSA Air Masks.

The program is supported with personalized training tailored to customers' needs and taught in the field by MSA-authorized personnel.

User maintenance covers procedures necessary to conduct general cleaning, inspection, and limited maintenance in accordance with the Occupational Safety and Health Administration (OSHA), National Fire Protection Association (NFPA), and the American National Standards Institute (ANSI) standards.

C.A.R.E. Certified Air Mask Repair Education covers all maintenance for both low- and high-pressure SCBA. Air Mask inspection and maintenance can be performed by MSA or a factory-authorized service

center. Or, individuals can obtain training for C.A.R.E certification from MSA. By having a C.A.R.E-certified technician on staff, fire departments and other facilities with a large number of Air Masks can perform all inspection and maintenance in-house.

- **All repairs and maintenance can be done in the field.**
- **A selection of overhaul kits, spare parts, and tool kits is available.**
- **Users may conduct periodic performance testing using an authorized MSA regulator tester.**

Emergency Breathing Systems



The Quick-Fill® System

The patented Quick-Fill System lets MSA Air Mask users refill and transfill air cylinders while the SCBA is worn, without removing the air cylinder—even in IDLH atmospheres. Use this MSA-exclusive option to:

- Fill an SCBA cylinder from a mobile compressor or cascade system in less than a minute.
- Transfill between two cylinders, providing an Emergency Breathing System.
- Extend the air supply over longer durations, using a remote compressed-air source.

Because performance is not affected, MSA Air Masks retain NIOSH certification during use of the Quick-Fill System.

Air Masks compliant to recent NFPA standard have the Quick-Fill URC fitting located at the Audi-Larm warning device. A Quick-Fill hose with a quick-disconnect connects the air source to the adapter for air transfer. See Bulletin 0105-92-MC for a Question & Answer overview of Quick-Fill Systems.

The Quick-Fill System

Replacement Parts for the Quick-Fill System

485366	EBS hose package, includes 3-foot emergency transfill hose in Kevlar pouch
485331	Emergency transfill hose, less Kevlar pouch
485390	Kevlar pouch
485391	Male stainless steel quick-disconnect with SAE-10 thread, complete with dust cover (also for use as a fitting for customized refilling systems)
485392	Female quick-disconnect with SAE-4 thread, complete with dust cover

Quick-Fill Hoses

25-ft lengths are stocked; other "custom lengths" are available on a special material basis. All SAE Fittings are for high-pressure service. Female quick-disconnect fittings have dust covers.

25 ft	12 ft	10 ft	8 ft	6 ft	3 ft	
485332	802690	802689	802688	802687	485331	FQD x FQD
487907	802677	802675	802673	802671	492796	FQD x CGA-347 Outlet
487909	802685	802683	802681	802679	487427	FQD x CGA-347 CN
487906	802704	802703	802702	802701	802705	FQD x SAE-4
487908	802678	802676	802674	802672	492797	FQD x CGA-346 Outlet
487910	802686	802684	802682	802680	487428	FQD x CGA-346 CN



RescueAire™ II Portable Air-Supply System

The RescueAire II Portable Air Supply System is designed to meet the needs of Rapid Intervention Teams (RITs). The system consists of a lightweight Carbon-Wrapped cylinder, Quick-Fill® emergency breathing system, ExtendAire™ emergency breathing system, and an MMR regulator, supported by a flame- and heat-resistant harness. The RescueAire is a complete system that can provide emergency breathing air for most any victim.

The RescueAire II System is available in both low-pressure (2216 psig) and high-pressure (4500 psig) versions. An optional-use shoulder strap is also provided for hands-free carrying.



RescueAire™ II Portable Air-Supply System

with L-30 cylinder	less cylinder	Low-Pressure (2216 psig)
10100096	10100095	RescueAire II w/Firehawk Responder MMR
10041196	10041198	RescueAire II, Firehawk STC MMR
10041230	10041232	RescueAire II, Firehawk PTC MMR
with H-60 cylinder	less cylinder	High-Pressure (4500 psig)
10100097	10100094	RescueAire II w/Firehawk Responder MMR
10041195	10041197	RescueAire II, Firehawk STC MMR
10041199	10041231	RescueAire II, Firehawk PTC MMR

The ExtendAire™ System

The ExtendAire System can be used as both an emergency breathing system and a dual-purpose device for MMR SCBA to allow firefighters to quickly and easily connect to an air-line.



The ExtendAire™ System

812958	ExtendAire Air-line Hose with foster plug
812973	40" Rescue Hose
10031798	ExtendAire Upgrade Kit for Threaded Firehawk MMR
10031797	ExtendAire Upgrade Kit for Quick-Connect Firehawk MMR

ClearCommand® HCS Helmet Communication System



Features & Benefits

- Incorporates a “noise-eliminating” bone-conduction voice transmitter that virtually eliminates high ambient noise levels.
- Custom user-fitted ear speaker brings all incoming communication directly to the user’s ear. No need to lift your lapel mic up to your ear to hear transmission.
- Easily snaps onto the ratchet suspension of fire helmets or industrial-style helmets. The unit can be easily transferred to other users, and no tools are required for removal.
- Can be used over the top of facepiece head harnesses, hoods and liners without losing the quality of the transmission.
- The bone-conduction microphone is made of soft silicone material, which makes it comfortable to wear, with no pressure points.
- The helmet microphone assembly can be reversed on the helmet suspension to position the ear speaker on either ear.
- The helmet mic system, when used with the lapel mic or PTT, is powered by the battery from the radio. No need to replace or re-charge dry cells.
- Special connectors suitable for most common radios are available for the lapel microphone and PTT, which allows users to adapt the system to their existing radios.
- The helmet mic is NFPA-certified which allows its use while fighting fires.
- Intrinsic safety approvals allow the use of the Helmet Communication System in hazardous environments.
- The stand-alone PTT unit is designed for use under hazardous material suits. The large button makes it easy for the user to depress and communicate.
- The helmet mic incorporates a cable keeper which allows for storage of the cable when it’s not connected to the lapel mic or PTT.

The Helmet Communication System from MSA is a state-of-the-art radio interface device which significantly improves the user’s ability to receive and send messages even in loud ambient-noise environments. It goes wherever you go. The system consists of a helmet-mounted microphone and ear speaker assembly that weighs 5.3 ounces and easily snaps onto the user’s fire helmet or industrial-style helmet’s ratchet suspension. The helmet mic/ear speaker assembly connects to a lapel microphone or optional stand-alone PTT (push-to-talk) unit. The lapel microphone and PTT are permanently fitted with a connector for attachment to the specific radio of choice. The Helmet Communication System also offers a plug-in truck communication adapter that can be used by firefighters, along with their helmet microphone assembly, on the way to a fire scene or other incident. Once the firefighter arrives at the scene, the truck system cable is unplugged from the helmet microphone, and the helmet microphone cable end is connected to the user’s lapel mic or PTT.

The user of the Helmet Communication System has uninterrupted communication from the time the alarm sounds until the incident is over.

For more complete information, see Bulletin 3639-01-MC.

Helmet Microphone Assembly

10042902	Helmet Microphone Assembly (includes Custom Fitted Flannel Headband Liner)
----------	--

Lapel Mic Kits for Radio Interface*

10042908	Maxon SP120, SP130, SP140
10042909	Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500
10042903	Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000
10042904	Motorola Astro and Saber
10042905	Motorola Radius GP300, P110, SP50, LTS2000, Spirit-III, GTX, SP21
10042912	Motorola STX, MX800, MX840
10042906	GE Ericsson PCS, PC2005
10042907	GE Ericsson MRK, LPE-200, Prism, PX 126T

Stand-Alone PTT Kits for Radio Interface*

10045667	Maxon SP120, SP130, SP140
10045668	Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500
10045662	Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000
10045663	Motorola Astro and Saber
10045664	Motorola Radius GP300, P110, SP50, LTS2000, Spirit-III, GTX, SP21
10045669	Motorola STX, MX800, MX840
10045665	GE Ericsson PCS, PC2005
10045666	GE Ericsson MRK, LPE-200, Prism, PX 126T

Truck System

10045732	Nexus Adapter, D. Clarke
10045731	Phonejack Adapter, D. Clarke

Parts and Accessories

10046087	Dust Cover
10046123	Guard Ring, Tall
10046122	Guard Ring, Short
10046089	Belt Clip Assy, Standard
10046120	Belt Clip Assy, Clothes Pin Type
10046121	O-Ring, Single Pin Connector
10045778	Flannel Head Band Liner

*If your specific radio is not listed, please contact MSA Customer Service.

ClearCommand Communications System for Ultra Elite Facepieces



MSA's ClearCommand Communications System is designed specifically to meet the modern communications needs of firefighters. Because it's available in two versions, amplifier and amplifier with radio interface, firefighting teams can be properly fitted for the job at hand. Also, the systems are designed for "shared-use" of the amplifier with a unique "bus-bar" arrangement, so individual issue is not required.

The ClearCommand systems feature an internally mounted microphone coupled with a large-diameter (50mm) amplifier speaker for optimal clarity and volume. Using a proprietary circuit design, the system delivers more than twice the volume of a facepiece alone. Mounted in an "out-of-the-way" position, the ClearCommand System doesn't block vision or mechanical communication. The Ultra Elite's mechanical voicemitter is still fully functional, even with the system installed.

The radio interface version features the same amplifier as the amp-only version, combined with an ear-speaker for incoming radio messages and a lapel mic assembly for interface with over 100 radios. The lapel mic can be used as a component of the ClearCommand system or as a stand-alone hand mic.

Both the amplifier and radio interface models are intrinsically safe, and meet the applicable requirements of NIOSH and NFPA 1981, 2002 edition.

ClearCommand System Kits

10024074	Amplifier Kit, complete with microphone
10051290	Amplifier Radio Interface Kit, w/ microphone, less PTT
10023055	Microphone Kit, with mounting bracket

Lapel Mic Kits for Radio Interface*

10042908	Maxon SP120, SP130, SP140
10042909	Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500
10042903	Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000
10042904	Motorola Astro and Saber
10042905	Motorola Radius GP300, P110, SP50, LTS2000, Spirit-III, GTX, SP21
10042912	Motorola STX, MX800, MX840
10042906	GE Ericsson PCS, PC2005
10042907	GE Ericsson MRK, LPE-200, Prism, PX 126T

Stand-Alone PTT Kits for Radio Interface*

10045667	Maxon SP120, SP130, SP140
10045668	Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500
10045662	Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000
10045663	Motorola Astro and Saber
10045664	Motorola Radius GP300, P110, SP50, LTS2000, Spirit-III, GTX, SP21
10045669	Motorola STX, MX800, MX840
10045665	GE Ericsson PCS, PC2005
10045666	GE Ericsson MRK, LPE-200, Prism, PX 126T

Truck System

10045732	Nexus Adapter, D. Clarke
10045731	Phonejack Adapter, D. Clarke

Parts and Accessories

10046087	Dust Cover
10046123	Guard Ring, Tall
10046122	Guard Ring, Short
10046089	Belt Clip Assy, Standard
10046120	Belt Clip Assy, Clothes Pin Type
10046121	O-Ring, Single Pin Connector
10045778	Flannel Head Band Liner

*If your specific radio is not listed, please contact MSA Customer Service.



MSA University, MSA's premier online training center, offers a wide range of training and informational materials. Register today at www.MSAnet.com/MSAU

Shop Online for MSA Gear

MSA FireSlayer and Be Ready promotional items are available to anyone via MSA's Internet site. Sporting appropriate logos are shirts, duffels, caps, golf items, mugs, money clips, lighters and more. The FireSlayer logo helps promote our products to the firefighting market, while the Be Ready logo is aimed at Homeland Security. Look for the "MSA Gear" link in the Resources & Info area after selecting MSA North America; MSA United States from the MSA homepage at MSAnet.com.

After making your selections, complete the shipping information and furnish a credit card number. Your order will be processed, and you should receive it within a week. Express service is also available.



SCBA Accessories



APR Adapter

MSA's APR adapter provides firefighters with the versatility they need to perform all tasks at the fire ground with one common facepiece. From fire-fighting to overhaul to homeland security, firefighters can switch from a positive-pressure facepiece to a negative-pressure air-purifying respirator simply by engaging the APR Adapter. The APR Adapter uses MSA's comprehensive family line of air-purifying cartridges; select from the Advantage cartridges or our CBA/RCA canisters to protect against a multitude of airborne contaminants.

The APR Adapter is designed for use in non-IDLH environments and is NIOSH-approved. Contact MSA for more information.

APR Adapters

Firehawk MMR STC Version	Firehawk MMR PTC Version	APR Adapter
10032511	10040052	APR Adapter
10032927	10040055	APR Adapter Individual Kit
10032925	10040054	APR Adapter Truck Kit

Accessories

10037809	Ultra Elite, Anti-Fog Applique (10/pkg)
10037810	Ultravue, Anti-Fog Applique (10/pkg)
817590	CBA/RCA Canisters (box of 6)
809858	Replacement Baffle
813341	Replacement Bayonet Cover



Side-Support Spectacle Kit for Ultra Elite Facepiece

Center-Support Spectacle Kit for Ultra Elite Facepiece

Spectacle Kit for Full-Facepiece Respirators

For use by workers who must wear corrective lenses, the Spectacle Kit can be easily inserted into the facepiece. The kit includes a wire support, rubber guide, and pair of metal-frame spectacles. There are two kits for the Ultra Elite facepiece; one uses a side wire support to hold the lenses in the facepiece, while the other uses a center support to position the unit. Desired adjustment is obtained by moving the spectacles in and out of the rubber guide and up and down the wire support. One size of spectacle frame is used (S-7 shape, 48-mm lens size) with Universal Bridge Corrective Lenses that can be obtained from local sources. The Spectacle Kit can be used with a nosecup.

Spectacle Kits

804638	Ultra Elite Spectacle Kit (side wire support)
493581	Ultra Elite Spectacle Kit (center support)

Nosecups



Molded from a soft rubber compound that is resistant to facial oils, the optional nosecup helps reduce the possibility of lens fogging. The nosecup is particularly effective under conditions of high humidity and/or low temperatures by inhibiting contact of moist exhaled air with the facepiece lens. A nosecup can be easily affixed to the facepiece without tools. Any size nosecup may be installed in any size Ultra Elite Facepiece for a customized, more comfortable fit.

Nosecups

495188	Medium Black Nosecup
495189	Large Black Nosecup

High-Pressure Filling Hose

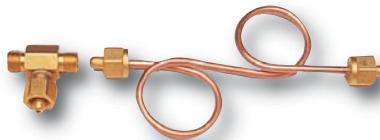


Provides a convenient means to connect and charge high-pressure air into a high-pressure 4500 psig cylinder.

High-Pressure Filling Hose

476105	High-Pressure Filling Hose Assembly
--------	-------------------------------------

Accessories for Filling Low-Pressure (2216 psig) Cylinders



Accessories for Filling Low-Pressure Cylinders

68846	Air Outlet Connection, complete w/ Gauge
68850	Air Coupler Tee
68851	Air Pigtail
476156	Low-Pressure Air-Filling Hose, 5 feet long

Cairns® Fire Helmets



Cairns Fire Helmets: Quality Craftsmanship Since 1836

Since 1836, Cairns has been the original manufacturer of leather firefighting helmets. Today, Cairns leather helmets retain the same authentic look and quality that generation after generation of firefighters have relied upon. And now, these helmets are also made with the added protection necessary for today's standards of safety in the firefighting industry.

Cairns also applies the same tradition of excellence to its newer lines of firefighting helmets. Both traditional and modern designs feature the very best

in contemporary high-tech materials, such as lightweight but durable fiberglass/Kevlar composites and tough, high-temperature thermoplastic.

All helmets are available with many options, including choice of colors, chinstraps, earlap material, etc. Also, a variety of accessories is available to complement Cairns fire helmets. Faceshields, goggles, ear/neck protection, and fronts can all be selected to configure the exact helmet you need.



N5A New Yorker
(OSHA compliant)



N6A Houston
(NFPA compliant)



Classic™ 1000



Cairns® 1044



Cairns® 1010



880 Tradition

Leather Helmets

The original leather helmet, individually hand-crafted to meet today's OSHA and NFPA standards with over 173 years of dependable performance.

Leather Helmet Features & Benefits

- Hand-crafted, 100% leather shell.
- Insurance against fireground damage with Cairns' 5-year shell replacement warranty.
- Non-corroding, high-temperature, glass-filled polymer faceshield/goggle hardware.
- Faceshield wing protectors for extra faceshield reinforcement.
- Nomex chinstrap with one-hand quick release buckle and postman slide allows quick and easy adjustment.
- Choice of Nomex or PBI/Kevlar earlap for increased neck/ear coverage and protection.
- High-temperature foam cap increases thermal and impact protection.
- High-temperature impact cap liner resists distortion at high temperatures.
- Comfortable fit for all head sizes between 6-3/8 inches and 8-3/8 inches.
- Large diameter helmet hanger fits on larger hooks and racks.

Traditional Helmets

Traditional style combined with high-tech performance.

Traditional Helmet Features & Benefits

- Cairns exclusive Defender Visor for Cairns 1010 and Cairns 1044 fire helmets.
- Simple rear ratchet height adjustment to fit all head sizes.
- Market-leading 5-year shell replacement warranty.
- Non-corroding, high-temperature-resistant, faceshield/goggle hardware.
- Rugged, high-temperature edge will not melt or drip.
- Easy front headband adjustment for proper SCBA mask fit.
- Headband (6 3/8 to 8 3/8) fits a wide variety of head sizes.
- Durable helmet hanger fits on large hooks and resists bending.
- Minimal parts for lower service cost and easier maintenance.
- Exclusive shell release system for an extra margin of safety (except 880).
- Unique tube-lock system absorbs the shock of an impact.

For ordering information, replacement parts and accessories, contact your MSA Fire Service Distributor.

Cairns® Fire Helmets



660C Metro®



Invader™ 664



Intruder 990®



Structural 360S®

Modern Helmets

Different models for applications such as structural firefighting and EMS/rescue.

Modern Helmet Features & Benefits

- Defender Visor now available on 660C Metro and Invader 664!
- Market-leading 5-year shell replacement warranty.
- Non-corroding, high-temperature-resistant, faceshield/goggle hardware.
- Rugged, high-temperature edge will not melt or drip.
- Easy front headband adjustment for proper SCBA mask fit.
- Simple rear ratchet height adjustment to fit all head sizes.
- Headband (6 3/8 to 8 3/8) fits a wide variety of head sizes.
- Durable helmet hanger fits on large hooks and resists bending.
- Minimal parts for lower service cost and easier maintenance.
- Exclusive shell release system for an extra margin of safety (except 360S and HP3).
- Unique tube-lock system absorbs the shock of an impact (except 360S).

For ordering information, replacement parts and accessories, contact your MSA Fire Service Distributor.



Rescue 360R



Commando® HP3



Rescue 360R-13

Cairns Rescue Helmets

Rescue Helmets Features & Benefits

- Defender Visor now available on Commando HP3!
- Market-leading 5-year shell replacement warranty.
- Non-corroding, high-temperature-resistant, faceshield/goggle hardware.
- Rugged, high-temperature edge will not melt or drip.
- Easy front headband adjustment for proper SCBA mask fit.
- Simple rear ratchet height adjustment to fit all head sizes.
- Headband (6 3/8 to 8 3/8) fits a wide variety of head sizes.
- Durable helmet hanger fits on large hooks and resists bending.
- Minimal parts for lower service cost and easier maintenance.

For ordering information, replacement parts and accessories, contact your MSA Fire Service Distributor.

Cairns® Fire Helmets



Defender® Visor for Cairns Traditional and Modern Helmets

MSA's Defender Visor for Cairns 1010 and 1044 Traditional Helmets and 660C Metro, Invader 664, and Commando HP3 Modern Helmets offers eye protection from dust, dirt, and grit. Sleek and attractive construction allows for fast, easy raising and lowering of your visor even with gloved hands. Visor stays clean inside your helmet until needed for eye protection during overhaul and non-IDLH search-and-recovery. The Defender Visor exclusive integral design is retractable for the ultimate in compact convenience. Standard clear and amber Tuffshield visor options are NFPA-compliant.

If you're looking for a new Cairns Traditional or Modern Helmet, or if you've thought about replacing your existing impact cap, consider the streamlined advantage of the new NFPA-compliant MSA Defender Visor. Cairns Traditional and Modern Helmets offer the perfect combination of durability and performance in lightweight, high-performance designs. Cairns once again integrates the latest technological advances expected by firefighters.

New Cairns 1010 and 1044 Helmet assemblies or 660C Metro, Invader 664, and Commando HP3 Helmets incorporating the Defender Visor may be ordered through Traditional or Modern Helmets Assemble-To-Order Matrices. A user-installable upgrade kit (includes new impact cap) lets you install the Defender Visor yourself.



Features and Benefits

- Available on Cairns 1010/1044 Traditional and 660C Metro, Invader 664, and Commando HP3 Modern Helmets
- Standard clear and amber Tuffshield visors are compliant with NFPA 1971; all Defender Visors meet ANSI Z87.1+ Standard
- Retractable eyewear system that's ready when you need it
- Available with new helmets or as user-upgrade kit
- Quick-disconnect for fast lens change-out without tools
- Never lose or misplace your goggles again
- Optically correct lens eliminates peripheral distortion

Standard 1010 Defender Configurations

1010DS	Includes Standard Flannel Cushion Liner, Yellow Nomex Earlap, Silk-Screened 6" Eagle Front Holder and Clear Defender Visor
1010DD	Includes Leather Cushion Liner, Flannel Crown Pad, PBI/Kevlar Earlap, Carved 6" Eagle Front Holder and Clear Defender Visor
1010TS	Includes Standard Flannel Cushion Liner, Yellow Nomex Earlap, Silk-Screened 6" Eagle Front Holder and Tuffshield Defender Visor
1010TD	Includes Leather Cushion Liner, Flannel Crown Pad, PBI/Kevlar Earlap, Carved 6" Eagle Front Holder and Tuffshield Defender Visor

Standard 1044 Defender Configurations

1044DS	Includes Standard Flannel Cushion Liner, Yellow Nomex Earlap, Silk-Screened 6" Eagle Front Holder and Clear Defender Visor
1044DD	Includes Leather Cushion Liner, Flannel Crown Pad, PBI/Kevlar Earlap, Carved 6" Eagle Front Holder and Clear Defender Visor
1044TS	Includes Standard Flannel Cushion Liner, Yellow Nomex Earlap, Silk-Screened 6" Eagle Front Holder and Tuffshield Defender Visor
1044TD	Includes Leather Cushion Liner, Flannel Crown Pad, PBI/Kevlar Earlap, Carved 6" Eagle Front Holder and Tuffshield Defender Visor



Standard Fronts

Made with your choice of high-gloss patent leather or dull-finish genuine leather reinforced with a high-temperature, shrink-resistant back layer and sewn with high-temperature, fire-retardant Nomex thread.

The Choice Is Yours!

Standard fronts offer over 27 million possible configurations! Design your own standard front by choosing from the options and then indicating your preferences by calling 1-877-MSA-FIRE to place your order.

Crash Fire Rescue (CFR) Proximity System

- Easy to don and doff, this CFR System is compliant with NFPA 1971-2007.
- Designed and approved for use with the Metro 660C, Invader 664, Cairns 1010 and Cairns 1044 Fire Helmets, it will not interfere with the SCBA while in use.
- Components consist of an aluminized PBI/Kevlar layer, vapor barrier and inner layer.

