

GENERAL SERVICES ADMINISTRATION



FEDERAL SUPPLY SERVICE

AUTHORIZED FEDERAL
SUPPLY SCHEDULE PRICE LIST

SCHEDULE 539
SOLUTIONS AND MORE (SAM)

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!™, a menu-driven database system. The INTERNET address for GSA Advantage!™ is: <http://www.GSAAdvantage.gov>.

For more information on ordering from Federal Supply Schedules, click on the FSS Schedules button at fss.gsa.gov

SPECIAL PURCHASE CLOTHING
S.A.M. 539
(FORMERLY FSC 84 PART II, SECTION B)
SIN 633-30, 633-43 and 633-45

CONTRACT NUMBER:
GS-07F-0356K

CONTRACT PERIOD:
June 1, 2000 through June 30, 2005

SUPPLEMENT AO08 EFFECTIVE:
March 11, 2005

ORDERING SOURCE:
Mine Safety Appliances Company
P.O. Box 426, Pittsburgh, PA 15230-0426
Fax: 1-800-967-0398
1-800-MSA-2222
info@MSAnet.com
www.MSAGSA.com

BUSINESS SIZE: Large

PRICES SHOWN HEREIN ARE NET (DISCOUNT DEDUCTED)

INFORMATION FOR ORDERING ACTIVITIES

- 1a. TABLE OF AWARDED SPECIAL ITEM NUMBERS (SIN): 633-30 pp. 147-152; 633-43 pp. 146; & 633-45 pp. 141-145, 153-154.
- 1b. LOWEST PRICED MODEL NUMBER AND PRICE FOR THIS SIN (Government price based on a unit of one):
817182, Clip, \$0.25
2. MAXIMUM ORDER*: \$50,000.00
**If the "best value" selection places your order over the maximum order, identified in this catalog/ price list, you have an opportunity to obtain a better schedule contract price. Before placing your order, contact the aforementioned contractor for a better price. The contractor may (1) offer a new price for this requirement (2) offer the lowest price available under this contract or (3) decline the order. A delivery order that exceeds the maximum order may be placed under the Schedule contract in accordance with FAR 8.404.*
3. MINIMUM ORDER: \$50.00
4. GEOGRAPHIC COVERAGE: 48 Contiguous United States and District of Columbia
5. POINT OF PRODUCTION:
Mine Safety Appliances Company
3880 Meadowbrook Road
Murrysville, PA 15668-2937 (Westmoreland County)
Mine Safety Appliances Company
352 White Street
Jacksonville, NC 28546-6797 (Onslow County)
Mine Safety Appliances Company
1420 Mars Evans City Road
Evans City, PA 16033-9397 (Butler County)
6. BASIC DISCOUNT OR NET GOVERNMENT PRICE: The pricing shown in this schedule reflects the GSA net price (discounts have already been applied.)
7. QUANTITY DISCOUNT: None (see Maximum Order above)
8. PROMPT PAYMENT TERMS: Net 30
9. GOVERNMENT PURCHASE CARD (GPC): GPC is accepted for any purchase
10. FOREIGN ITEMS: All ear muffs produced in Finland
- 11a. TIME OF DELIVERY: 60 days after receipt of order (ARO)
- 11b. EXPEDITED DELIVERY: All items in this price list are available for faster delivery on an order by order basis dependent upon availability of parts. Clause I-FSS-140-B of the contract applies. Agencies can contact contractor's representative to possibly effect faster delivery and to determine rates.
- 11c. OVERNIGHT & 2-DAY DELIVERY: See 11b. Expedited above.
- 11d. URGENT REQUIREMENTS: See 11b. Expedited above.
12. FOB POINT: Destination - Continental US
13. ORDERING ADDRESS, TELEPHONE AND FAX NUMBER:
Mine Safety Appliances Company
P.O. Box 426
Pittsburgh, PA 15230-0426
Phone: 1-800-MSA-2222
Fax: 1-800-967-0398
14. PAYMENT ADDRESS:
Mine Safety Appliances Company
P.O. Box 640348
Pittsburgh, PA 15264-0348
15. WARRANTY PROVISION: Commercial
16. EXPORT PACKING CHARGES: In accordance with clause F-FSS-736-A, Export Traffic Release
17. TERMS AND CONDITIONS OF GPC ACCEPTANCE: Payment by Government Purchase Card (GPC accepted without additional discount).
18. TERMS AND CONDITIONS OF RENTAL, MAINTENANCE, AND REPAIR: Not applicable.
19. TERMS AND CONDITIONS OF INSTALLATION: N/A
20. TERMS AND CONDITIONS OF REPAIR PARTS INDICATING DATE OF PARTS PRICE LISTS AND ANY DISCOUNTS FROM LIST PRICES (IF AVAILABLE): MSA Suggested Price List, effective 1 January 2001.
- 20a. TERMS AND CONDITIONS FOR ANY OTHER SOURCE: N/A
21. LIST OF SERVICE AND DISTRIBUTION POINTS: Call 1-800-MSA-2222
22. LIST OF PARTICIPATING DEALERS: N/A
23. PREVENTIVE MAINTENANCE: See data included with product.
24. YEAR 2000 (Y2K) COMPLIANT: MSA is compliant with the British Standards Institute (BSI) "A Definition of Year 2000 Conformity Requirements."
25. ENVIRONMENTAL ATTRIBUTES: N/A
26. DATA UNIVERSAL NUMBER SYSTEM (DUNS) NUMBER: 086673175
27. CENTRAL CONTRACTOR REGISTRATION (CCR) DATABASE: CCR registered



Third-party certified by:
SEI
SAFETY EQUIPMENT INSTITUTE

V-GARD® PROTECTIVE HEADWEAR

(see Data Sheet o6-00-01)

V-Gard Protective Caps and Hats from MSA consist of a polyethylene shell and suspension system working together as a protection system. The **Staz-On® Suspension** offers comfortable slide-style nape adjustment, the **Fas-Trac® Ratchet Suspension** provides a large knob for quick and easy adjustment, while the **Uni-Pro™ Suspension**'s integral, one-piece plastic napestrap is a comfortable, economical choice. V-Gard headwear features advanced styling in either cap or hat styles, with the cap available in three sizes: small (6-7¹/₈), standard (6¹/₂-8) and large (7-8¹/₂).

V-Gard Caps and Hats meet or exceed the applicable requirements for a Type I helmet (top impact) as outlined in ANSI Z89.1 2003, Class E.

Note: V-Gard Caps and Hats are not specifically designed to protect against lateral blows from the front, side, or rear.

Description and Part No.	Gov't Net Price
V-Gard Cap , with Staz-On Suspension , standard size	\$3.59
463942 - white	463943 - blue
463944 - yellow	463945 - orange
463947 - red	463946 - green
463948 - gray (navy)	464852 - gold
463111 - robin's egg blue	464658 - brown
484340 - silver	488148 - Hi-Viz orange
478237 - light buff	461180 - tan
488398 - purple	475235 - black
815558 - Hi-Viz lime green	
V-Gard Cap , with Staz-On Suspension , small	\$5.36
466354 - white	466355 - blue
466356 - yellow	
V-Gard Cap , with Staz-On Suspension , large	\$5.36
473284 - white	476928 - blue
473285 - yellow	
V-Gard Cap , with Fas-Trac Suspension , standard size	\$5.98
475358 - white	475359 - blue
475360 - yellow	475361 - orange
475362 - red	475363 - green
475364 - gray (navy)	475365 - gold
495853 - robin's egg blue	495854 - brown
495855 - silver	488146 - Hi-Viz orange
492559 - black	815565 - Hi-Viz lime green
10052912 - Hi-Viz red	10052904 - Hi-Viz green
V-Gard Cap , with Fas-Trac Suspension , small	\$7.97
477477 - white	477478 - blue
477479 - yellow	
V-Gard Cap , with Fas-Trac Suspension , large	\$7.97
477482 - white	477483 - blue
477484 - yellow	
V-Gard Cap , with Uni-Pro Suspension , standard size	\$2.54
10004760 - white	10004762 - blue
10004761 - yellow	10004767 - orange
10004763 - red	10004764 - Hi-Viz orange
10004765 - green	10004766 - gray (navy)
10017732 - lime green	

To order replacement parts and accessories for V-Gard Caps and Hats, see p. 144.

Description and Part No.	Gov't Net Price
V-Gard Hat , with Staz-On Suspension , standard size	\$5.36
454733 - white	454732 - blue
454730 - yellow	454734 - orange
454736 - red	454735 - green
454731 - gray (navy)	489360 - Hi-Viz Orange
815562 - Hi-Viz Green	
V-Gard Hat , with Fas-Trac Suspension , standard size	\$7.97
475369 - white	475368 - blue
475366 - yellow	475371 - red
475370 - green	475367 - gray (navy)
10021292 - Hi-Viz Orange	815570 - Hi-Viz Green
V-Gard Hat , with Uni-Pro Suspension , standard size	\$4.31
10017713 - white	10017714 - blue
10017715 - yellow	10017716 - orange
10017717 - red	10017718 - green
10017719 - gray (navy)	10017730 - Hi-Viz orange

V-Gard Caps and Hats are available in the following special colors (minimum order 20 each per color)

Description and Part No.	Gov't Net Price
V-Gard Cap , with Staz-On Suspension , standard size	\$3.58
10052120 - pearl gray	10052121 - ivory
10052122 - dark green	10052123 - light olive
10052124 - pale blue	10052125 - pale green
10052126 - tan	10052127 - golden brown
10052128 - dark brown	10052129 - light green
10052130 - peach	10052131 - tangerine
10052132 - magenta	10052133 - medium green
10052134 - turquoise	10052135 - medium blue
V-Gard Cap , with Fas-Trac Suspension , standard size	\$5.95
10052136 - pearl gray	10052137 - ivory
10052138 - dark green	10052139 - light olive
10052140 - pale blue	10052141 - pale green
10052142 - tan	10052143 - golden brown
10052144 - dark brown	10052145 - light green
10052146 - peach	10052147 - tangerine
10052148 - magenta	10052149 - medium green
10052150 - turquoise	10052151 - medium blue

Description and Part No.	Gov't Net Price
V-Gard Hat , with Staz-On Suspension , standard size	\$5.33
10052152 - pearl gray	10052153 - ivory
10052154 - dark green	10052155 - light olive
10052156 - pale blue	10052157 - pale green
10052158 - tan	10052159 - golden brown
10052160 - dark brown	10052161 - light green
10052162 - peach	10052163 - tangerine
10052164 - magenta	10052165 - medium green
10052166 - turquoise	10052167 - medium blue
V-Gard Hat , with Fas-Trac Suspension , standard size	\$7.93
10052168 - pearl gray	10052169 - ivory
10052170 - dark green	10052171 - light olive
10052172 - pale blue	10052173 - pale green
10052174 - tan	10052175 - golden brown
10052176 - dark brown	10052177 - light green
10052178 - peach	10052179 - tangerine
10052180 - magenta	10052181 - medium green
10052182 - turquoise	10052183 - medium blue



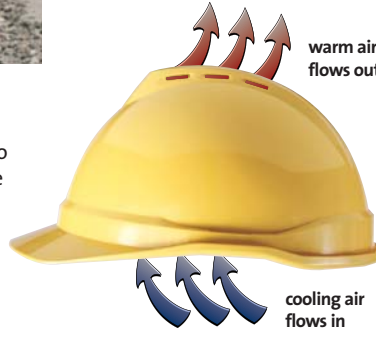
Left: Fas-Trac Ratchet Suspension
Right: Staz-On Suspension



Uni-Pro Suspension

WARNING

Do not mix suspension and helmet sizes. Make sure the sizes match (example: standard-size suspension with standard-size helmet). Use only MSA suspensions on an MSA helmet. Failure to comply with the above will reduce the energy-absorbing ability of the protective helmet, which can result in serious injury or death.



Left: 4-Point Fas-Trac Suspension
Right: 6-Point Fas-Trac Suspension



The Vented Advance Cap uses most accessories that are available for standard V-Gard Caps. **Shown:** Vented Advance Cap P/N 10034022 with Defender Faceshield Frame P/N 10021616, Acetate Visor P/N 488133, and Sound Blocker 26 Hearing Protector P/N 10026398. For accessories, see p. 144.

ADVANCE™ CAP: VENTED AND NON-VENTED STYLES

Vented Advance Caps provide cooling vents for improved air circulation and comfort. And, the new Non-Vented Advance Caps are appealing to users who want both the new Advance styling AND dielectric head protection. Advance Caps from MSA feature a combination of advanced features and styling:

- Vented version for improved air circulation
- Optional 4- or 6-point suspension system
- Lightweight design for added comfort
- Lateral contours above the ear for easy integration of hearing protection
- Glaregard™ underbrim to reduce reflective glare
- Custom printing available
- Sun Shield available—extends the brim all the way around

Advance Caps consist of a polyethylene shell and either a 4-or 6-point Staz-On® or Fas-Trac® ratchet suspension that work together as a protective system.

Advance Caps meet or exceed the applicable requirements for a Type I helmet (top impact) as outlined in ANSI Z89.1 2003. Non-Vented meet Class E and Vented meet Class C.

Complete Assemblies - Vented

Color	4-Point Fas-Trac Susp.	Gov't Net Price	4-Point Staz-On Susp.	Gov't Net Price	6-Point Fas-Trac Susp.	Gov't Net Price	6-Point Staz-On Susp.	Gov't Net Price
White	10034018	\$6.46	10033991	\$4.39	10034027	\$7.43	10034036	\$4.99
Blue	10034019	\$6.46	10033992	\$4.39	10034028	\$7.43	10034037	\$4.99
Yellow	10034020	\$6.46	10033993	\$4.39	10034029	\$7.43	10034038	\$4.99
Red	10034022	\$6.46	10033995	\$4.39	10034031	\$7.43	10034050	\$4.99
Green	10034023	\$6.46	10033996	\$4.39	10034032	\$7.43	10034051	\$4.99
Gray	10034024	\$6.46	10033997	\$4.39	10034033	\$7.43	10034052	\$4.99
Hi-Viz Orange	10034026	\$6.46	10034010	\$4.39	10034035	\$7.43	10034056	\$4.99
Hi-Viz Lime Green	10035212	\$6.46	10034016	\$4.39	10035213	\$7.43	10034062	\$4.99

Complete Assemblies - Non-Vented

Color	4-Point Fas-Trac Susp.	Gov't Net Price	4-Point Staz-On Susp.	Gov't Net Price	6-Point Fas-Trac Susp.	Gov't Net Price	6-Point Staz-On Susp.	Gov't Net Price
White	10034088	\$6.46	10034070	\$4.39	10034097	\$7.43	10034106	\$4.99
Blue	10034089	\$6.46	10034071	\$4.39	10034098	\$7.43	10034107	\$4.99
Yellow	10034090	\$6.46	10034072	\$4.39	10034099	\$7.43	10034108	\$4.99
Red	10034092	\$6.46	10034074	\$4.39	10034101	\$7.43	10034110	\$4.99
Green	10034093	\$6.46	10034075	\$4.39	10034102	\$7.43	10034111	\$4.99
Gray	10034094	\$6.46	10034076	\$4.39	10034103	\$7.43	10034112	\$4.99
Hi-Viz Orange	10034096	\$6.46	10034080	\$4.39	10034105	\$7.43	10034116	\$4.99
Hi-Viz Lime Green	10035214	\$6.46	10034086	\$4.39	10035215	\$7.43	10034122	\$4.99

Advance Caps are not specifically designed to protect against lateral blows from the front, side, or rear. MSA's Vanguard™ Protective Helmets are so designed and must be used if lateral protection is desired. For more information, contact your MSA distributor.

Advance Helmets are available in the following special colors (minimum order 20 each per color)

Description and Part No.	Gov't Net Price
Advance Cap , with Fas-Trac Suspension , standard size	\$7.34
10052200 - pearl gray	10052201 - ivory
10052202 - dark green	10052203 - light olive
10052204 - pale blue	10052205 - pale green
10052206 - tan	10052207 - golden brown
10052208 - dark brown	10052209 - light green
10052210 - peach	10052211 - tangerine
10052212 - magenta	10052213 - medium green
10052214 - turquoise	10052215 - medium blue



FREEDOM SERIES™ V-GARD HELMETS



Freedom Series Caps, which come with MSA's Fas-Trac® suspension, are lightweight, durable, and comfortable. They meet all applicable requirements of ANSI Z89.1 2003 for a Type I helmet (Class E). The helmet's accessory slots accept all MSA V-Gard accessories. Also, your logo can be custom-imprinted on top of the design, if desired.

Description and Part No.	Government Net Price
10052947 - American Flag with 2 Eagles	\$12.26
10052945 - American Stars and Stripes Design	
10050611 - Dual American Flag Design	

THERMALGARD® PROTECTIVE CAPS

(See Data Sheet o6-oo-o6.)



Staz-On Suspension for Thermalgard Caps



Fas-Trac Suspension for Thermalgard Caps



For use in high heat areas such as boiler rooms on board ships, etc.

Thermalgard Slotted Caps are lightweight, high-strength helmets intended for use where workers may need a helmet with elevated temperature capability. The injection-molded, rivetless shell of glass-reinforced nylon has a beaded edge for improved rigidity. Slots in the cap provide for mounting hearing protection muffs, welding shields, and faceshields. The **Staz-On® Suspension** offers comfortable slide-style nape adjustment, and the **Fas-Trac® Ratchet Suspension** provides a large knob for quick and easy adjustment. Thermalgard Caps meet or exceed the applicable requirements for a Type I helmet (top impact) as outlined in ANSI Z89.1 2003, Class G (electrical—low voltage) (formerly Class A).

Description and Part No.	Gov't Net Price
Thermalgard Slotted Cap, w/ Staz-On Suspension , standard size	\$13.00
486964 - yellow	486965 - white
486966 - red	486967 - orange
486968 - blue	487399 - green
487676 - gray	800359 - Hi-Viz orange
Thermalgard Slotted Cap, w/ Fas-Trac Suspension , standard size	\$14.99
486959 - yellow	486960 - white
486961 - red	486962 - orange
486963 - blue	487677 - gray

Note: Thermalgard Caps are not specifically designed to protect against lateral blows from the front, side, or rear.

For accessories, see p. 144.

ACCESSORIES AND REPLACEMENT PARTS FOR V-GARD, ADVANCE AND THERMALGARD CAPS AND HATS



Description	Part No.	Gov't Net Price
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Replacement Suspensions for V-Gard Caps and Hats

Staz-On Suspension, small	467386	\$4.36
Staz-On Suspension, standard	454230	\$2.90
Staz-On Suspension, large	492566	\$4.13
Fas-Trac Suspension, small	492567	\$4.95
Fas-Trac Suspension, standard	473332	\$4.75
Fas-Trac Suspension, large	492568	\$4.95
Uni-Pro Suspension, standard	10004788	\$2.04
Sweatbands for Uni-Pro Suspension, pkg of 5	10004786	\$2.27
Swing-Ratchet Suspension, standard	816645	\$7.31
Fixed-Crown Suspension, standard	82797	\$4.75

Replacement Suspensions for Thermalgard Caps

Staz-On Suspension, standard	454230	\$2.90
Fas-Trac Suspension, standard	473332	\$4.75
Swing-Ratchet Suspension, standard	816645	\$7.31
Fixed-Crown Suspension, standard	82797	\$4.75

WELDING ACCESSORIES

Description	Part No.	Gov't Net Price
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Welding Shields, less headgear and attachments, non-coated Black

Slim-line, lift-front, plate size 2" x 4 $\frac{1}{4}$ "	695943	\$18.10
Full-curved, lift-front, plate size 2" x 4 $\frac{1}{4}$ "	695946	\$24.56

Welding Shields, less headgear and attachments, coated Silver

Slim-line, lift-front, plate size 2" x 4 $\frac{1}{4}$ "	695890	\$21.25
Slim-line, coated lift-front, plate size 2" x 4 $\frac{1}{4}$ "	695941	\$24.45
Slim-line, fixed-front, plate size 4" x 5 $\frac{1}{4}$ "	695888	\$14.06
Full-curved, lift-front, plate size 2" x 4 $\frac{1}{4}$ "	695889	\$28.13

Ratchet Suspension for Using Welding Shields (above) without Hard Hat

Ratchet Suspension	488399	\$9.81
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Systems for Attaching Welding Shields (above) to Hard Hat

Instant release attachment for quick shield removal	485460	\$11.31
Lugs for above	468771	\$2.84
Standard attachment for hard hats	488525	\$8.34
Positive positioning attachment for hard hats	806211	\$11.06

Description	Part No.	Gov't Net Price
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Defender® Faceshield Frame and Accessories

Defender Faceshield Frame, for standard V-Gard Caps (w/lockdown)	10021614	\$5.55
Visor, Polycarbonate, 8"x 16"x.060", clear	488132	\$3.69
Visor, Polycarbonate, 6"x 16"x.040", clear	488126	\$3.13
Visor, Acetate, 8"x 16"x.060", clear	488134	\$5.73
Visor, Acetate, 8"x 16"x.060", med. green tint	488136	\$5.70
Defender Headgear, standard Sparkgard, ratchet suspension	10021611	\$6.28
Defender Headgear, extended-high-temperature Sparkgard, ratchet suspension	10021612	\$6.97
Sound Blocker 26™ (26 NRR) Ear cup Kit w/clips for Defender Faceshield Frame	10026398	\$12.67
SlimPro™ Plus (23 NRR) Ear Cup Kit for Defender Faceshield Frame	10026460	\$13.75
Defender Faceshield Frame for Advance Cap, without lockdown	10021616	\$5.55

Other Accessories

Chinstrap, elastic w/plastic fasteners	88128	\$2.15
Extended-neck Zero Hood Liner, one-piece, two-ply winter liner tucks into coat or jacket collar	88587	\$8.29
Extended-neck, two-ply liner w/flame-retardant shell, soft lining, adjust. Velcro chinstrap, & 3-button loop straps	697118	\$3.95
Medical Info Carrier System for hardhats (pkg/10)	10013393	\$11.73



Description	Part No.	Gov't Net Price
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Welding Plates for Welding Shields (left)

Heat-treated glass, Shade 10, plate size 2" x 4 $\frac{1}{4}$ "	791928	\$1.34
Heat-treated glass, Shade 12, plate size 2" x 4 $\frac{1}{4}$ "	791930	\$1.42
Heat-treated glass, Shade 6, plate size 4 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ "	38346	\$3.19
Heat-treated glass, Shade 10, plate size 4 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ "	38347	\$3.19
Heat-treated glass, Shade 12, plate size 4 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ "	38277	\$3.19
Heat-treated glass, Shade 14, plate size 4 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ "	38348	\$3.19

Specialty Welding Goggles

Welder's Goggle, Shade 5, lift-front	695179	\$11.02
Welder's Goggles, Shade 5, fixed	791038	\$8.55

Accessory Lenses

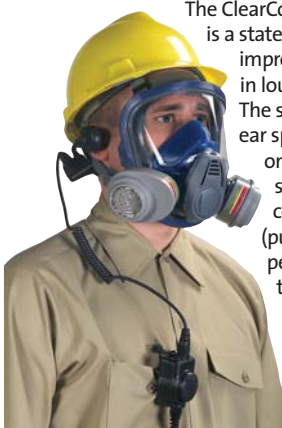
CR 39 clear plastic cover lens*, size 4 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ "	696095	\$1.46
Clear polycarbonate impact protection back plate	791933	\$1.18

*Does **not** provide impact protection.

CLEARCOMMAND® HCS HELMET COMMUNICATION SYSTEM FOR FIRE SERVICE AND INDUSTRIAL APPLICATIONS



The ClearCommand Helmet Communication System (HCS) 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 industrial-style helmet or fire helmet ratchet suspension. The helmet mic/ear speaker assembly connects to a lapel microphone or optional basic PTT (push-to-talk) unit. The lapel microphone and PTT are permanently fitted with a connector for attachment to the specific radio of choice.



For fire service applications the ClearCommand HCS 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 clear communication always while wearing the HCS 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 (Wildland). The unit can be easily transferred to other users, and no tools are required for removal.
- Can be used over the top of face-piece 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.

Description	Part No.	Gov't Net Price
Helmet Microphone Assembly (includes Custom Fitted Flannel Headband Liner)	10042902	\$154.11
Lapel Mic Kits for Radio Interface*		
Maxon SP120, SP130, SP140	10042908	\$414.97
Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500	10042909	\$368.18
Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000	10042903	\$361.12
Motorola Astro and Saber	10042904	\$404.66
Motorola Radius GP300, P110, SP50, LTS2000, Spirit-III, GTX, SP21	10042905	\$287.93
Motorola STX, MX800, MX840	10042920	\$491.46
GE Ericsson PCS, PC2005	10042906	\$650.42
GE Ericsson MRK, LPE-200, Prism, PX 126T	10042907	\$567.23

Basic PTT Kits for Radio Interface*		
Maxon SP120, SP130, SP140	10045667	\$366.26
Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500	10045668	\$319.47
Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000	10045662	\$312.43
Motorola Astro and Saber	10045663	\$357.36
Motorola Radius GP300, P110, SP50, LTS2000, Spirit-III, GTX, SP21	10045664	\$239.21
Motorola STX, MX800, MX840	10045669	\$444.17
GE Ericsson PCS, PC2005	10045665	\$601.71
GE Ericsson MRK, LPE-200, Prism, PX 126T	10045666	\$518.52

Truck System Part Number		
Nexus Adapter, D. Clark	10045732	\$170.99
Switchcraft Adapter, D. Clark	10045731	\$170.99

Parts and Accessories		
Dust Cover for Lapel Mic or PTT Plug	10046087	\$10.83
Tall Guard for Lapel Mic PTT	10046123	\$1.81
Short Guard for Lapel Mic PTT	10046122	\$1.81
Belt Clip Assy, Standard	10046089	\$18.99
Belt Clip Assy, Clothes Pin Type	10046120	\$25.92
O-Ring, Single Pin Connector	10046121	\$7.53
Flannel Headband Liner	10045778	\$3.44
Remote Finger PTT	10046574	\$147.35
Instructions	10046197	\$6.55

*If your specific radio is not listed, please contact MSA Customer Service at 1-800-MSA-2222.





Wildland T Cap with chinstrap



Wildland T full-brimmed Hat with chinstrap

WILDLAND® T FIRE HELMETS

Wildland T Helmet Assemblies come complete with Staz-On (standard) or Fas-Trac (ratchet) Suspension, 3 goggle clips, 4 reflective stripes, special chinstrap, and 3 attachment strips for a liner inside the shell. (This is not a structural fire-fighting helmet.) Wildland T Helmets are SEI-certified and meet the applicable requirements for a Type I ANSI Z89.1-1997 helmet Class E (electrical—high voltage) and G (electrical—low voltage) and NFPA 1977-1998 for Wildland helmets.

Description and Part No.	Government Net Price
Wildland T Cap, w/Staz-On Suspension	\$20.96
809897-yellow 809898-white 809899-red	
Wildland T Cap, w/Fas-Trac Suspension	\$23.12
809902-yellow 809903-white 809904-red	
Wildland T Hat, w/Staz-On Suspension	\$23.12
809887-yellow 809889-red	
Wildland T Hat, w/Fas-Trac Suspension	\$25.32
809892-yellow 809894-red	



Wildland T Caps & Hats are available in 5 colors

Third-party certified by:
SEI
SAFETY EQUIPMENT INSTITUTE

Wildland T Accessories

Description	Part No.	Government Net Price
Staz-On Suspension for cap or hat (6½-8)	454232	\$2.90
Fas-Trac Suspension for cap or hat (6½-8)	473333	\$5.33
Swing Fas-Trac Suspension for cap or hat (6½-7¾)	816648	\$7.67
Wildland Goggle with strap	10006221	\$17.67
Wildland Goggle less strap (for use with Goggle Retainer)	10006222	\$14.83
InnerZone Three firefighters' goggle	10032882	\$27.08
Goggle Retainer for protective caps, less goggle	459458	\$5.06
Goggle Retainer for protective hats, less goggle	449895	\$5.81
Replacement chin strap	10003127	\$2.23
Terri-Band sweatband (pkg of 10)	696688	\$31.29
Visor, wire screen, 20 mesh, 8" x 17", aluminum edge, less frame	457409	\$23.77
Frame, fits cap style, for visor	488160	\$6.20
Frame, fits hat style, for visor	488159	\$6.27
Defender faceshield frame	10021615	\$5.55
Polycarbonate shield for post-fire cleanup, 8"x9"x.060" thickness, clear	488138	\$4.59
Nomex ear/neck/throat protector with flame-retardant cotton lining (certified compliant to NFPA 1977-1998)	10028777	\$26.42
Nomex ear/neck/throat protector	10028853	\$15.72
Nomex ear/neck protector with flame-retardant cotton lining	10028778	\$12.44
Nomex ear/neck protector, flame-retardant cotton lining and throat strap	10028779	\$15.72



Wildland Goggle



Left: Wildland T Cap with NFPA-compliant Nomex ear/neck/throat protector (P/N 10028777) and InnerZone Three Goggle



Right: Wildland T Cap with ClearCommand HCS Communication System (see p. 144)

CAIRNSHELMETS TRADITIONAL FIREFIGHTING HELMETS

All CairnsHELMETS traditional helmets offer the following features and benefits:

- Insurance against fireground damage with CairnsHelmets' 5-year shell replacement warranty.
- Non-corroding, high-temperature, glass-filled polymer faceshield/goggle hardware.
- Ultra-high-temperature (TPR) edge trim will not melt or drip.
- 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.
- Exclusive SCBA interface front headband adjustment matches the fit of any SCBA mask.
- Three-position, rear-ratchet height adjustment ensures a secure and comfortable fit for all head sizes between 6³/₈ inches and 8³/₈ inches.
- Choice of removable flannel or leather cushion liners for washing and upgrading provides greater ease and comfort.
- Large diameter helmet hanger fits on larger hooks and racks.

880 Tradition™ Firefighting Helmet



NFPA-approved thermoplastic

The 880o Tradition fire helmet is the lowest profile high-performance traditional style helmet on the market today. Compliant with the latest NFPA 1971-2000 edition standard, the 880 Tradition fire helmet is an unparalleled achievement in size, performance, and styling. (To order, see ATO on page 148).

- The helmet is formed and fortified with modern materials that produce a smaller impact cap and low-profile shell.
- It meets all the head protection requirements of NFPA 1971-2000.
- Modern technology merges light weight with durability, optimum balance with comfort.
- The low-ride helmet design provides the market's lowest profile for superior clearance and maneuverability.
- The strong, durable shell boasts a 5-year replacement warranty.

Classic 1000 Firefighting Helmet



NFPA-approved fiberglass composite reinforced with 2 layers of ballistic-grade Kevlar.

Classic 1000 Standard and Deluxe configurations meet the following helmet standards: NFPA 1971-2000 edition, US-OSHA, Cal-OSHA (unless otherwise noted)

All configurations shown include the following: Kevlar Reinforced Fiberglass Composite Shell, Front Mounting Bracket, L/Y Reflexite Tetras, Impact Cap with Suspension System, Chinstrap with QRB and Postman Slide and Ratchet Headband System (For custom configurations, see ATO on page 148).

Part No.	Description	Gov't Net Price
1000FS	Standard Configuration: Includes Standard Flannel Cushion Liner, Nomex Earlap, 6" Front Holder and 4" PA Tuffshield	\$243.19
1000GS	Standard Configuration: Includes Standard Flannel Cushion Liner, Nomex Earlap, 6" Front Holder and Cairns Goggle System	\$242.41
1000FD	Deluxe Configuration: Includes Leather Cushion Liner, Flannel Crown Pad, PBI/Kevlar Earlap, Carved Brass Eagle 6" Front Holder and 4" PA Tuffshield	\$286.68
1000GD	Deluxe Configuration: Includes Leather Cushion Liner, Flannel Crown Pad, PBI/Kevlar Earlap, Carved Brass Eagle 6" Front Holder and Cairns Goggle System	\$281.84

CairnsHELMETS 1010 Firefighting Helmet



NFPA-approved fiberglass composite

Cairns 1010 Standard and Deluxe configurations meet the following helmet standards: NFPA 1971-2000 edition, US-OSHA, Cal-OSHA (unless otherwise noted)

All configurations shown include the following: Fiberglass Composite Shell, Front Mounting Bracket, L/Y Reflexite Tetras, Impact Cap with Suspension System, Chinstrap with QRB and Postman Slide and Ratchet Headband System (For custom configurations, see ATO on page 148).

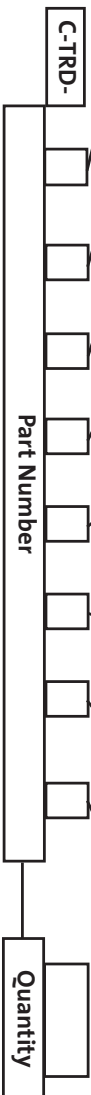
Part No.	Description	Gov't Net Price
1010FS	Standard Configuration: Includes Standard Flannel Cushion Liner, Nomex Earlap, 6" Front Holder and 4" PA Tuffshield	\$173.00
1010GS	Standard Configuration: Includes Standard Flannel Cushion Liner, Nomex Earlap, 6" Front Holder and Cairns Goggle System	\$172.22
1010FD	Deluxe Configuration: Includes Leather Cushion Liner, Flannel Crown Pad, PBI/Kevlar Earlap, Carved Brass Eagle 6" Front Holder and 4" PA Tuffshield	\$212.43
1010GD	Deluxe Configuration: Includes Leather Cushion Liner, Flannel Crown Pad, PBI/Kevlar Earlap, Carved Brass Eagle 6" Front Holder and ESS Goggle System	\$211.65

Cairns Traditional Helmets Ordering Selection Matrix and Price List

Effective January 1, 2005

Model	Color	Eye Protection	Headband Liners	Earlaps	Front Holder	Chinstrap	Trim Type
1 Cairns 1010**	1 Black	0 None*	1 Economy Flannel	1 Nomex	0 None	1 Nomex with quick release	0 None**
2 Cairns 1010 with Bourkes*	2 Red	1 4" Turffield	2 Standard Flannel	2 Extended Nomex	1 6" Carved Brass Eagle	2 Nomex with quick release and Postman's slide	1 Glo Flex
3 Classic 1000**	3 Blue†	2 Cairns ESS Goggles	3 Deluxe Leather with Crown Pad	3 PBI/Kevlar	2 6" Silk-Screened Eagle	3	2 Reflexite
4 Classic 1000 with Bourkes*	4 White	3 Cairns Goggles		4 Extended PBI/Kevlar	3 6" Silk-Screened Eagle		3 Scotchlite
5 880 Tradition**	5 Yellow	4 ESS Innerzone 3 Goggles		5 Bloodborne Pathogen Resistant	4 6" Silk-Screened Maltese Cross		
6 880 Tradition with Bourkes*	6 Orange†	5 ESS Innerzone 2 Goggles		6 Nomex Winter Neck Protector	5 5" Silk-Screened Eagle†		
7 Cairns 1044	7 Green†¶	6 ESS Innerzone 1 Goggles		7 PBI Winter Neck Protector	4 5" Silk-Screened Eagle†		
8 Cairns 1044 with Bourkes*		7 4" Gold-Plated Faceshield*		9 CFR Aluminized Bonnet with PBI/Kevlar Shroud and Nomex Earlap†	5 5" Silk-Screened Maltese Cross†		
		8 6" Gold-Plated Faceshield*		A Black Nomex			
		9 Standard Faceshield*					

All Pricing is in U.S. Dollars



The Assemble-To-Order System for Cairns HELMETS Traditional Helmets

The ATO system is easy to use, allowing you to order the right configuration to fit your needs. The ATO system allows you to "build" your own helmet by creating a feature-specific part number. Each character of an ATO part number represents a specific component, so the entire number describes the finished helmet built exactly to your specifications.

Note: A number or letter must be selected for each category. The ATO system is only used to order complete helmets. Spare parts, additional components, etc., must be ordered by specific part number.

Prices are 34.51% discount off 2005 Price List.

** Eye protection (goggles or faceshield) required for NFPA compliance.
* Not NFPA compliant
† Available with 880 Tradition only
‡ Not available with 880 Tradition
§ Requires a 5" front with 880 Tradition only
¶ Not available on Cairns 1044

CAIRNSHELMETS MODERN FIREFIGHTING HELMETS

All CairnsHELMETS modern helmets offer the following features and benefits:

- Insurance against fireground damage with CairnsHelmets' 5-year shell replacement warranty.
- Non-corroding, high-temperature, glass-filled polymer faceshield/goggle hardware.
- Ultra-high-temperature (TPR) edge trim will not melt or drip.
- 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.
- Patented shell release increases neck and head protection.
- High-temperature foam cap increases thermal and impact protection.
- High-temperature impact cap liner resists distortion at high temperatures.
- Exclusive SCBA interface front headband adjustment matches the fit of any SCBA mask.
- Three-position, rear-ratchet height adjustment ensures a secure and comfortable fit for all head sizes between 6 3/8 inches and 8 3/8 inches.
- Choice of removable flannel or leather cushion liners for washing and upgrading provides greater ease and comfort.
- Large diameter helmet hanger fits on larger hooks and racks.

In addition to the features listed above, the 660C Metro and HP3 Commando helmets offer:

- Tough, through-color, fiberglass-reinforced, hi-temp shell construction that resists cracking and chipping.

660C Metro Firefighting Helmet



NFPA-approved, durable fiberglass composite.

660C Metro Standard and Deluxe configurations meet the following helmet standards: NFPA 1971-2000 edition, US-OSHA, Cal-OSHA (unless otherwise noted)

All Configurations shown include the following: Fiberglass Thru-Color Composite Shell, L/Y Reflexite Bars, Impact Cap with Suspension System, Chinstrap with QRB and Postman Slide and Ratchet Headband System. (For custom configurations, see ATO on page 151).

Part No.	Description	Gov't Net Price
660CFS	Standard Configuration: Includes Standard Flannel Cushion Liner, Nomex Earlap, 6" Front Holder and 4" PA Tuffshield	\$140.37
660CGS	Standard Configuration: Includes Standard Flannel Cushion Liner, Nomex Earlap and Cairns Goggle System	\$161.01
660CFD	Deluxe Configuration: Includes Leather Cushion Liner, Flannel Crown Pad, PBI/Kevlar Earlap, and 4" PA Tuffshield	\$161.78
660CGD	Deluxe Configuration: Includes Leather Cushion Liner, Flannel Crown Pad, PBI/Kevlar Earlap and Cairns Goggle System with Extra Lens	\$161.01
660CXD	Deluxe Configuration: Includes Leather Cushion Liner, Flannel Crown Pad, PBI/Kevlar Earlap and ESS Goggle System	\$162.37

990 Intruder Firefighting Helmet



NFPA-approved, high-performance fiberglass composite reinforced with 3 layers of overlapping ballistic-grade Kevlar across the helmet's dome provides the highest level of cut and penetration resistance.

990 Intruder configurations meet the following helmet standards: NFPA 1971-2000 edition, US-OSHA, Cal-OSHA (unless otherwise noted)

All configurations shown include the following: Three Layers of Kevlar Reinforced Composite Shell, Impact Cap with Suspension System, and Ratchet Headband System (For configuration, see ATO on page 151).

HP3 Commando Firefighting Helmet



NFPA-approved, durable fiberglass composite. No brim allows low-profile access to confined spaces.

HP3 Commando configurations meet the following helmet standards: NFPA 1971-2000 edition, US-OSHA, Cal-OSHA (unless otherwise noted).

All configurations include the following: Fiberglass Thru-Color Composite Shell, L/Y Reflexite Tetra Bars, Impact Cap with Suspension System, Chinstrap with QRB and Ratchet Headband System. (For configuration, see ATO on page 151).

All CairnsHELMETS thermoplastic helmets (660 Phoenix and 360 Structural Helmets) offer the following features and benefits:

- Tough, high-temperature thermoplastic shell resists chipping and cracking.
- Insurance against fireground damage with CairnsHelmets' 5-year shell replacement warranty.
- Non-corroding, high-temperature, glass-filled polymer faceshield/goggle hardware.
- Ultra-high-temperature (TPR) edge trim will not melt or drip.
- Nomex chinstrap with one-hand quick release buckle and postman slide allows quick and easy adjustment.
- Choice of Nomex or Pbi/Kevlar ear-lap and forestry shroud for increased neck/ear coverage and protection.
- High-temperature foam cap increases thermal and impact protection.
- Exclusive SCBA interface front headband adjustment matches the fit of any SCBA mask.
- Three-position, rear-ratchet height adjustment ensures a secure and comfortable fit for all head sizes between 6 3/8 inches and 8 3/8 inches.
- Choice of removable flannel or leather cushion liners for washing and upgrading provides greater ease and comfort.
- Choice of eye protection: Cairns goggle, ESS goggle, or faceshield.
- Larger diameter helmet hanger fits on larger hooks and racks.

660 Phoenix Firefighting Helmet



NFPA-approved, high-impact polymer shell.

660 Phoenix standard configurations meet the following helmet standards: NFPA 1971-2000 edition, US-OSHA, Cal-OSHA.

All configurations shown include the following: Thermoplastic Shell, L/Y Reflexite Bars, Impact Cap with Suspension System, Chinstrap with QRB and Postman Slide and Ratchet Headband System. (For configuration, see ATO on page 151).

360 Structural Firefighting Helmet



NFPA-approved, high-impact polymer shell.

360S standard configurations meet the following helmet standards: NFPA 1971-2000 edition, US-OSHA, Cal-OSHA.

All configurations shown include the following: Thermoplastic Shell, L/Y Reflexite Tetra Bars, Chinstrap with QRB, Impact Cap with Suspension System and Ratchet Headband System (For configuration, see ATO on page 151).

HELMET PERFORMANCE

CairnsHelmets are designed and manufactured to be durable. All of our leather, thermoplastic, fiberglass, and Kevlar helmets exceed industry standards for heat, impact, and penetration protection. MSA CairnsHelmets offers the most diverse line in the industry, so you can choose the helmet that is best for your application.

■ Kevlar™

Models 1000 and 990

Fiberglass-reinforced Kevlar shell has been completely re-designed for maximum thermal, impact, and penetration protection. Available in both modern and traditional styles.

■ Fiberglass

Models 1010, 660C and HP3

Exclusive, chip-resistant, through-colored, high-performance, high-heat-resistant, compression-molded, fiberglass composite shell. Available in both modern and traditional styles.

■ Thermoplastic

Models 880, 360S and 660

Through-colored thermoplastic shell combines toughness and durability with NFPA performance.

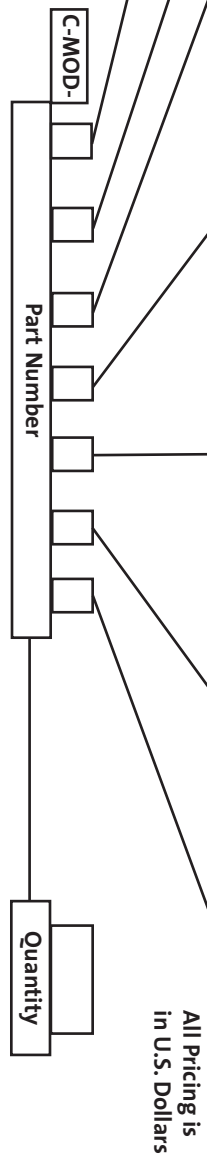
CairnsHELMETS® Modern Helmets

Ordering Selection Matrix and Price List

Effective January 1, 2005

Model	Color	Eye Protection	Headband Liners	Earlap	Chinstrap	Trim Type
1 990 Intruder	1 Black	0 None*	1 Economy Flannel	1 Nomex	1 Nomex with quick release	0 None* 0.00
2 660C Metro	2 Red	1 4" Turfshield	2 Standard Flannel	2 Extended Nomex	2 Nomex with quick release and Postman's slide	1 Glo Flex 4.60
3 660 Phoenix	3 Blue†	2 ESS Goggles	3 Deluxe Leather with Crown Pad	3 Extended PBI/Kevlar	3 3" longer Nomex with quick release and post/slide	2 Reflexite (Standard) 2.91
4 4981 HP3	4 White	3 Cairns Goggles	4 ESS Innerzone 1 Goggles	4 Bloodborne Pathogen Resistant Nomex Winter Neck Protector	4 3" longer Nomex with quick release and post/slide	3 Scotchlite 2.91
5 4497 Commando	5 Orange**‡	4 ESS Innerzone 2 Goggles	5 ESS Innerzone 2 Goggles	5 CFR Aluminized Bonnet with PBI/Kevlar Shroud* and Nomex Earlap*	5 Nomex with quick release PP buckle	
6 360 Structural	6 Green††	5 4" Standard Faceshield	6 4" Standard Faceshield	6 Black Nomex	6 6" longer Nomex with post/slide	
7 360 Structural without edge bead		6 6" Standard Faceshield	7 4" Gold-Plated Faceshield**			
A 664 Invader		8 4" Gold-Plated Faceshield**				

* Not NFPA-approved.
** Not NFPA-approved on 360 Structural.
† Not available on 360, 660 Phoenix
‡ Not available on Invader 664
x Available on 660C Metro only



The Assemble-To-Order System for CairnsHELMETS Modern Helmets

The ATO system is easy to use, allowing you to order the right configuration to fit your needs. The ATO system allows you to "build" your own helmet by creating a feature-specific part number. Each character of an ATO part number represents a specific component, so the entire number describes the finished helmet built exactly to your specifications.

Note: A number or letter must be selected for each category. The ATO system is only used to order complete helmets. Spare parts, additional components, etc., must be ordered by specific part number.

Prices are 34.51% discount off 2005 Price List.

Cairns® Helmet Shell ATO

Ordering Selection Matrix and Price List

Effective January 1, 2005

Model	Shell Color*	Trim Type	Trim Color†	Trim Shape	Accessories	
A 990 Intruder	1 Black	0 None	0 Standard (Lime Yellow)	0 Standard	0 None	0.00
B 990E	2 Red	1 Glo-Flex	1 Lime Yellow	1 Tetrabar	1 6" Silk-Screened Eagle (1010, 1000 and 1044)	7.95
C 660 C Metro	3 Blue	2 Reflexite	2 Red Orange	2 Bar		
D 660CE	4 White	3 Scotchlite	3 Blue	3 Diamond	2 Carved Eagle (1010, 1000 and 1044)	28.34
E 660 Phoenix	5 Yellow		4 White		3 Carved Eagle (1010, 1000, 1044)	7.95
F 515 Navigator	6 Orange				3 6" Silk-Screened Maltese Cross (1010, 1000, 1044)	7.95
G 515E	7 Green				6 5" Silk-Screened Eagle (880)	7.95
H HP3 Commando					7 5" Silk-Screened Maltese Cross (880)	7.95
J 360 Structural					8 6" Silk-Screened Eagle (880)	7.95
K 360 Structural w/o Edge Bead					9 6" Silk-Screened Maltese Cross (880)	7.95
L Cairns 1010					A 6" Carved Eagle (880)	28.34
M Classic 1000						
N 880 Tradition						
O Invader 664						
P Cairns 1044						

= Total Leather Helmet Cost

All Pricing in U.S. Dollars

The Assemble-To-Order System for CairnsHELMETS Helmet Shells

The ATO system is easy to use, allowing you to order the right configuration to fit your needs. The ATO system allows you to "build" your own helmet by creating a feature-specific part number. Each character of an ATO part number represents a specific component, so the entire number describes the finished helmet built exactly to your specifications.

Note: A number or letter must be selected for each category. The ATO system is only used to order complete helmets. Spare parts, additional components, etc., must be ordered by specific part number.

Prices are 34.51% discount off 2005 Price List.

* Not all colors available in all types - see matrix
† Not all colors are NFPA approved



COMFO-CAP® PROTECTIVE HEADWEAR

Designed for work in low-ceiling areas

The Comfo-Cap Protective Cap is widely used in the mining industry for head protection. The cap has a low-crown clearance for work in low-ceiling areas and is equipped with a lamp bracket and cordholder to support a miner's lamp.



Made of lightweight, tough polycarbonate plastic, the shell helps resist top impacts. Molded cross ridges on the crown provide increased strength and rigidity. The cap's peak helps protect the wearer's eyes and face from small falling objects.

The Comfo Cap is not specifically designed to protect against lateral blows from the front, side or rear. MSA's lateral protective helmets are so designed and must be used if lateral protection is desired. For more information, contact your MSA distributor.

Approvals

Comfo-Cap Protective Headwear meets or exceeds the applicable requirements for a Type I helmet (top impact) as outlined in ANSI Z89.1 1997, Class G (electrical-low voltage), formerly Class A.

Description	Government Net Price
Comfo-Cap Protective Headwear	\$22.70
91522 - white	
91586 - blue	
91585 - yellow	
91589 - orange	
91590 - red	
91584 - green	
82769 - black	

REPLACEMENT SUSPENSIONS FOR COMFO-CAP

Description	Part No.	Government Net Price
Staz-On Suspension, standard size (6½ – 8)	454231	\$3.85
Staz-On Suspension, small size (6 – 7⅝)	462628	\$5.37
Fas-Trac Suspension, standard size (6½ – 8)	473334	\$6.19

NOTE: If top and lateral head protection is desired, one of MSA's lateral protection helmets must be used.



Top: Single-unit Power Builder batteries (AC & DC)
Left: Ultralight Cap Lamp

CAP LAMP LIGHTING SYSTEMS

Ultralight™ Cap Lamp System

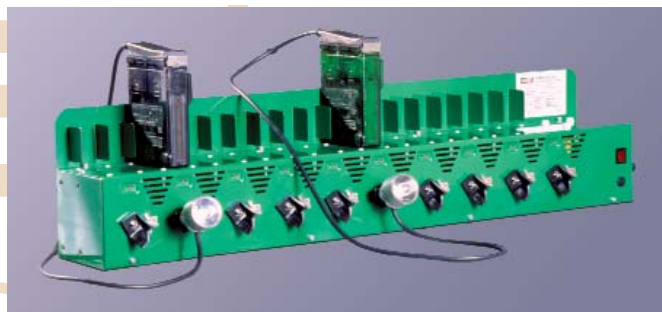
A complete, low-maintenance, high-performance personal lighting system for use in underground mines and other applications. The state-of-the-art Ultralight™ Cap Lamp System has the brightest prefocused spotlight available (tungsten halogen) and provides exceptionally brilliant illumination of the work site. The low-wattage bulb requires less drain on battery and provides more reserve power when needed. The unit is available with a long-life, low-maintenance Luminator battery and a variety of battery charging equipment.

Description	Part No.	Government Net Price
Ultralight Cap Lamp, with acid-filled Luminator battery (13 AH)	817171	\$145.43
Ultralight Cap Lamp, with acid-filled Luminator battery (13 AH) and remote power takeoff adapter	817169	\$166.41
Ultralight Cap Lamp, with acid-filled Luminator Plus battery (16 AH)	817172	\$150.73
Ultralight Cap Lamp, with acid-filled Luminator battery (16 AH) and remote power takeoff adapter	817170	\$173.64
Ultralight Headpiece, cable and cover assembly (no battery)	484820	\$107.70
Ultralight Headpiece, cable and cover assembly (no battery), with remote power takeoff adapter	813230	\$138.53

MineSpot® Luminator Battery

The MineSpot Luminator Batteries are assembled as a complete sealed unit that requires nothing more than routine charging and periodic watering (only every 4-6 weeks). The battery case is impact-resistant polycarbonate with reinforced bottom corners and molded-in belt loops. MSA offers a choice of batteries: either a 13 Ampere Hour (AH) for normal work shifts or a 16 AH for longer work shifts.

Description	Part No.	Government Net Price
MineSpot Luminator battery (13 AH), with acid, for Ultralight and ML-2	817177	\$64.13
MineSpot Luminator Plus battery (16 AH), with acid, for Ultralight and ML-2	817178	\$69.68
Clips (2 required) for Luminator battery	817182	\$0.25



Above: Power Builder 10-unit Charging Station
Left: Power Builder 10-unit Charging Stations are stackable (Front only and back-to back).

Power Builder™ Charger Stations

MSA offers a variety of charging stations, including a single-unit both AC and DC, a 5-unit, and a 10-unit station. The 5 and 10-unit chargers can be tabletop mounted, wall mounted, or stacked to convert it into a multi-station charger for up to 60 stations.

The Power Builder Charger uses a microprocessor control that is efficient and never needs recalibration. It uses constant current and constant potential charging. No adjustments are required. LED colored lights let you know the condition of the battery at all times. No rectifier is required. The charger is self-contained. All AC chargers can run on 110 or 220 current.

Description	Part No.	Government Net Price
Power Builder single-unit, AC	10002436	\$138.06
Power Builder single-unit, DC	10002437	\$138.06
Power Builder 10-unit	10002439	\$1160.33
Power Builder 5-unit	10002460	\$892.55
Circuit Board Module, replacement	10002462	\$65.21
Transformer, replacement	10002464	\$303.81
Leg Assembly Kit (up to 60-station)	10002465	\$259.13

SPARE PARTS AND ACCESSORIES

Cap Lamp Spare Parts and Accessories for Ultralight Unit

Description	Part No.	Government Net Price
Bulb/Reflector	480374	\$9.55
Bezel/Lens	476705	\$6.11
Cable Assembly	484688	\$23.51
Secondary Bulb	637035	\$5.12
Swivel Adapter	491870	\$8.72
Battery Pouch, nylon (fits MSA and Koehler)	803100	\$5.05
Battery Pouch with velcro strap	804655	\$5.70
Remote Adapter with battery top (see photo below)	801581	\$37.98
Cover for Remote	809925	\$12.76

Charging Equipment Spare Parts and Accessories

Description	Part No.	Government Net Price
Filler Watering Device for single cap lamp	69422	\$5.40
Hand-held Watering Device (500 ml)	10026386	\$6.22

ADAPTER FOR KOEHLER (WHEAT) CAP LAMPS AND CHARGING EQUIPMENT

Using this adapter will permit you to charge an MSA Ultralight Cap Lamp on Koehler (Wheat) equipment.

Description	Part No.	Government Net Price
Single-unit adapter for use with Wheat single-unit slide-on (Mark II) or turnkey (Mark V) chargers	491116	\$27.32

CAUTION: Do not mix cap lamp components from different manufacturers for use in applications where MSHA approval is required.



Remote Adapter P/N 801581



Cover for Remote Adapter P/N 809925