

## MSA Advanced Combat Helmet (ACH) ★

The MSA Advanced Combat Helmet (ACH) delivers advanced ballistic, fragmentation, and impact head protection, with unsurpassed comfort for long-term use.

The helmet's low-profile design reduces the risk of interference in target acquisition and ensures compatibility with NVGs (night-vision goggles), MSA's CBRN (Chemical, Biological, Radiological and Nuclear) Gas Masks, and MSA's communication devices.

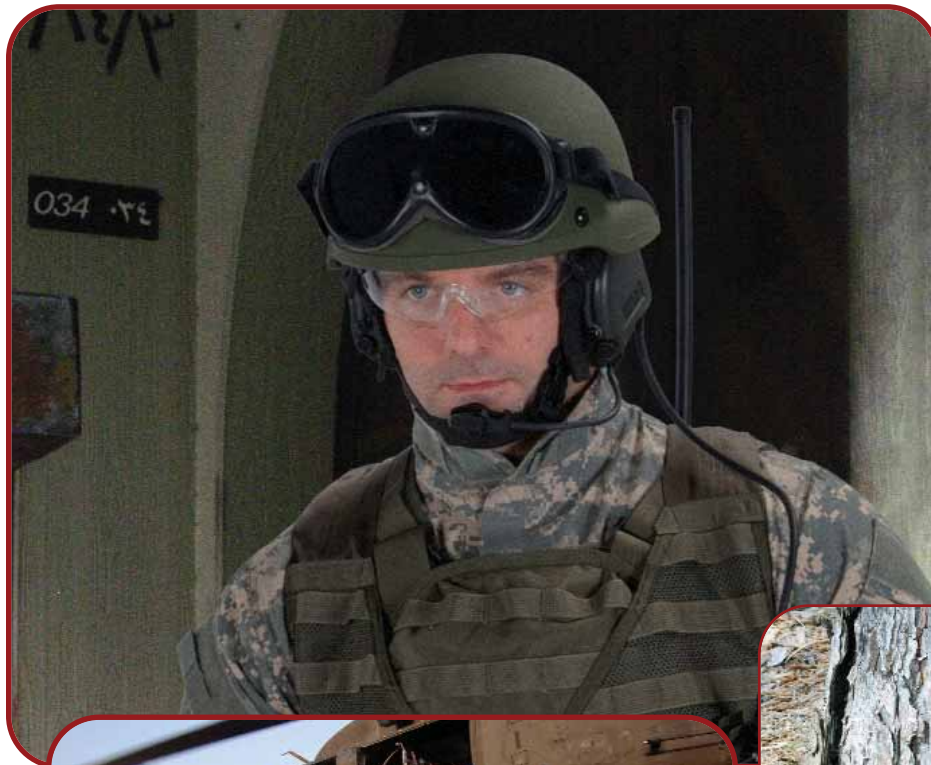
An innovative suspension system of movable comfort pads provides customized sizing and superior comfort. The sized pads conform to the shape of your head to distribute the helmet's weight evenly and comfortably. Simply adjust and move the absorbent pads for a flexible, personalized fit.

### Proven Under Fire

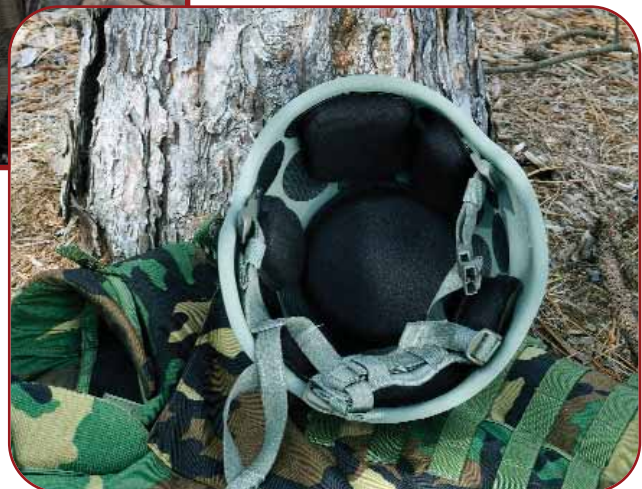
The MSA ACH, based on MSA's original MICH helmet, was developed for the U.S. Military Special Operations Command, meeting stringent requirements and unprecedented demands, and setting new performance standards. Named a Best Invention by U.S. Army Materiel Command, the U.S. Army was so impressed that MSA's ACH was adopted as the standard of issue for all troops deploying to the Iraq/Afghanistan Operations Theatre.



Department of Defense photo



Department of Defense photo



## PROVEN UNDER FIRE

MSAnet.com | 1.800.MSA.2222

**Specifications—  
ACH - TC 2000 - MICH Series**

*Components*

- Ballistic-resistant Kevlar® shell
- Four-point adjustable chinstrap retention system
- Seven-pad adjustable suspension system
- Instruction manual

*Ballistic Resistance*

9mm, 124 grain, FMJ @ 1450 fps,  
backface < 12 mm

*Fragmentation Resistance*

- 2 grain RCC @ 4075 fps
- 4 grain RCC @ 3450 fps
- 16 grain RCC @ 2425 fps
- 64 grain RCC @ 1700 fps
- 17 grain FSP @ 2150 fps

*Other Features / Performance*

- Minimum static load test of 150 lbs.
- Minimum dynamic load test of 25 fps
- Impact mitigation, less than 150 gs force transmitted to the head at 10 fps
- Compatible with the use of all major gas masks worn under the helmet
- Weights: Medium, 3.0 lbs., Large 3.25 lbs., XL 3.4 lbs.
- Berry Amendment Compliant
- No degradation of performance after 3' immersion in salt water for 3 hours
- Ballistic performance within the following temperature range: -40°F to 160°F
- Standard helmet fits over MSA MICH Communication Systems

*Customer Options*

- Available in black, tan or O.D. Green
- 1-, 2- or 3-hole drilled for NVG Mounting
- TC 2001 – Full Ear Cutout (Medium & Large)
- TC 2002 – Partial Ear Cutout (Medium & Large)



Sizing		
Shell Size	Pad Size	Head Size (U.S.)
Medium	No. 8 (1")	6½ – 7
Medium	No. 6 (¾")	7 – 7¼
Large	No. 8 (1")	7¼ – 7½
Large	No. 6 (¾")	7½ – 7¾
X-Large	No. 8 (1")	7¾ – 8
X-Large	No. 6 (¾")	8+



Department of Defense Photo



"It saved my life," 1SG (First Sergeant) Colin Rich said simply, of MSA's ACH he was wearing when a "friendly" Afghan soldier shot him in the back of the head. He traveled nearly 10,000 miles to MSA's factory in Newport, Vermont, to thank MSA associates who had made his helmet.



**PROVEN UNDER FIRE**

MSAnet.com | 1.800.MSA.2222





### ACH TC-2000 (Green)

	Medium Size Pad Set #6	Medium Size Pad Set #8	Large Size Pad Set #6	Large Size Pad Set #8
<b>No. Holes</b>	<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>
0	300098A	300641A	300099A	300642A
1	300188A	300647A	300189A	300648A
2	300363A	300653A	300371A	300654A
3	300364A	300659A	300372A	300660A

### ACH TC-2000 (Green)

	X-Large Size Pad Set #6	X-Large Size Pad Set #8
<b>No. Holes</b>	<b>Part No.</b>	<b>Part No.</b>
0	10050873	10050874

### ACH TC-2000 (Tan)

	Medium Size Pad Set #6	Medium Size Pad Set #8	Large Size Pad Set #6	Large Size Pad Set #8
<b>No. Holes</b>	<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>
0	300132A	300665A	300133A	300666A
1	300365A	300671A	300373A	300672A
2	300366A	300677A	300374A	300678A
3	300367A	300683A	300375A	300684A



### ACH TC-2001 (Green)

	Medium Size Pad Set #6	Medium Size Pad Set #8	Large Size Pad Set #6	Large Size Pad Set #8
<b>No. Holes</b>	<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>
0	300136A	300643A	300137A	300644A
1	300379A	300649A	300388A	300650A
2	300380A	300655A	300389A	300656A
3	300381A	300661A	300390A	300662A

### ACH TC-2001 (Tan)

	Medium Size Pad Set #6	Medium Size Pad Set #8	Large Size Pad Set #6	Large Size Pad Set #8
<b>No. Holes</b>	<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>
0	300138A	300667A	300139A	300668A
1	300382A	300673A	300391A	300674A
2	300383A	300679A	300392A	300680A
3	300384A	300685A	300393A	300686A



**PROVEN UNDER FIRE**

**PROVEN UNDER FIRE**

MSAnet.com | 1.800.MSA.2222



### ACH TC-2002 (Green)

No. Holes	Medium Size Pad Set #6	Medium Size Pad Set #8	Large Size Pad Set #6	Large Size Pad Set #8
	Part No.	Part No.	Part No.	Part No.
0	300142A	300645A	300143A	300646A
1	300397A	300651A	300406A	300652A
2	300398A	300657A	300407A	300658A
3	300399A	300663A	300408A	300664A

### ACH TC-2002 (Tan)

No. Holes	Medium Size Pad Set #6	Medium Size Pad Set #8	Large Size Pad Set #6	Large Size Pad Set #8
	Part No.	Part No.	Part No.	Part No.
0	300144A	300669A	300145A	300670A
1	300400A	300675A	300409A	300676A
2	300401A	300681A	300410A	300682A
3	300402A	300687A	300411A	300688A

## MSA Ballistic Helmet Pad System

The MSA Ballistic Helmet Pad System is the suspension system for ACH, MICH and TC 2000 series ballistic helmets for the military. The Pad System provides standoff, comfort, protection and stability. The pads are easily attached, removed, and reattached to the inside of the inside of the helmet shell via a hook and loop fastening system in order to facilitate user comfort and integration with other equipment. The pads remain firmly in place when attached and provide the user with the ability to attach the pads where the wearer desires (i.e. in a variety of locations) and permit accommodation among different size and shape heads and some equipment.

**Impact:** Shock mitigation performance for a 10 fps impact velocity of <150 g's.

**Compression Durability:** No performance change following 6570 compressions.

**Water Absorbency:** <3% weight gain following a 12 hour salt water soak.

**Environmental:** Operating temperature range of -40° to 160°F and altitude of 40,000 ft.

### Pads

Size 6	Size 8	Description
160003A	160004A	Pad Kit, Combat Helmet, MD/LG, 1 set
10060735	10060736	Pad Kit, Combat Helmet, MD/LG, 10 sets
160010A	160011A	Oblong/Oval Pad
160012A	160013A	Circular Crown Pad
160014A	160015A	Trapezoidal Pad

### Miscellaneous Helmet Accessories

Part No.	Description
162040A	Retrofit Kit, one-hole, PSGT/MICH Helmet
300021A	Chinstrap Assembly, 4-point, TC-2000
300171A	Chinstrap Assembly, 3-point, PSGT Helmet
10054157	Chinstrap, 4-point, XL
300031A	Retention Straps, set of 2, TC-2000
300106A	Spare Parts Kit for 20 TC-2000 Helmets
301059A	Spare Parts Kit for 100 TC-2000 Helmets
300131A	Supplemental Spare Parts Kit, TC-2000
300107A	Mounting Hardware Kit, TC-2000
101014A	Fastener Tape, Hook (use inside shell), ea.
101014A-400	Fastener Tape, Hook (use inside shell), 400/roll
150005A	Screw (attach mounting hardware to ACH), ea.
150005A-050	Screw (attach mounting hardware to ACH), 50/box
150006A	Nut (attach mounting hardware to ACH), ea.
150006A-050	Nut (attach mounting hardware to ACH), 50/box
153006A	Ladder-lock (mount chinstrap to p-clamp), ea.
153006A-050	Ladder-lock (mount chinstrap to p-clamp), 50/box
160010A	MICH Pad Oblong #6
161009A	P-Clamp (mount ladder-lock to shell), ea.
161009A-050	P-Clamp (mount ladder-lock to shell), 50/box

### Accessory Visors

Part No.	Description
10072800	Military Style Shield, .250" Thickness, 5", Anti-Fog
10072804	Military Style Shield, .250" Thickness, 8", Anti-Fog
10072799	Riot Shield, .150" Thickness, 5"
10072803	Riot Shield, .150" Thickness, 8"

### Helmet Covers

Part No.	Description	Size
300025A	Reversible Helmet Cover Assembly, Woodland/Desert Camo	MD/LG
10055698	Reversible Helmet Cover, with pocket	XL

**PROVEN UNDER FIRE**

MSAnet.com | 1.800.MSA.2222