

Cairns[®] 1836 Fire Helmet

WHEN YOU GO IN, WE GO IN WITH YOU.



Cairns® 1836 Fire Helmet

Blending tradition and technology, the MSA Cairns 1836 Traditional Fire Helmet is designed to enhance comfort while making helmet cleanings and inspections faster and easier. Cairns has been proudly manufacturing fire helmets since 1836 and when it comes to head protection, more first responders trust MSA Cairns brand fire helmets than any other.¹ The Cairns 1836 Fire Helmet is the latest innovation in traditional fire helmets from the brand that has been pioneering quality head protection for generations.

Key Features & Benefits

DESIGNED FOR EASY CLEANING

Can be taken apart in minutes for easy inspection and cleaning.

LIGHTWEIGHT & LOW RIDE HEIGHT

One of the lightest and lowest ride height helmets on the market.

NEW ANCHOR BASE

Patent-pending Slide-Lok system means no specific tool is needed to assemble and disassemble the helmet.

ARTICULATING DEFENDER® VISOR

Designed to stow neatly in the fire helmet, new Defender[®] Visor snaps into place and can be deployed by simply pulling down on the lens.

LARGE D-RING & CLAMP

Design makes storage and hanging of accountability tags easy. The clamp securely fastens the edge trim to the helmet shell.

NEW LEATHER FRONTS & HOLDER DESIGNS

New 5.5" front and holder design option with five new front style choices, customizable with department identification.

QUICK-CONNECT SOFT GOODS & EARLAPS

Few hook and loop fasteners offer excellent durability while quickconnect system enhances ease of attaching or detaching for cleaning.

LASER ENGRAVED LABELING & RFID TAG

Improved helmet label durability and built-in RFID tag enable integration with FireGrid[™], simplifying asset management.

¹ Fire helmet brand assessment study conducted by an outside research firm for MSA

Accessories & Offerings



Cushion Liner

- Standard option made with TenCate Tecasafe[®] Plus TechT4[™] material
- Genuine leather option available



Earlaps

- Yellow Nomex
- Black Nomex
- PBI/Kevlar



Eye Protection

- New! Articulating, Integrated Defender® Visor (available in Clear or Amber Tuffshield)
- NFPA Bourkes
- 4" Clear or Amber Tuffshield Faceshield
- ESS Goggles





Colors

- Unpainted Matte Finish: White, Red, Black, Yellow
- Painted High-Luster Finish: White, Red, Black, Yellow, Blue, Green, Orange, Pink



Front Holders

- Sizes: 5.5" and 6"
- Styles: Silkscreened Maltese Cross, Silkscreened Eagle, Carved Eagle
- Side Accountability Brackets



Leather Front Styles

- Sizes: 5.5", 6"
- New Front styles for 5.5"
 FRT: 105, 106, 107, and 108
 PST: 109 (frame & insert)

Features & Benefits

1 Low Ride Height

• Low ride height helps provide excellent comfort and balance.

 Shell design with low ride height merges tradition and innovation with the durability Cairns users are accustomed to.

2 **Newly Designed Anchor Base System**

- Patent-pending Slide-Lok system allows for easy disassembly and reassembly for cleaning and inspections.
- First of its kind on the market! No specific tool needed for disassembly and reassembly.

3 Large D-Ring & Clamp

• Large D-ring for easy storage or hanging accountability tags. • Large clamp design grips edge trim securely and aids in preventing displacement.

4 **New Front Holders**

• New 5.5" options available, or carry on the tradition with 6" front holder options.

5 **New Leather Front Styles**

• Five new 5.5" style choices added, customizable with department identification.

Proven Shell Release System (SRS) 6

- This unique design feature enables the energy-absorption system to be released from the helmet shell when impacted from below the brim. leaving the energy-absorption assembly on the wearer's head for continued thermal and impact protection.
- With the SRS, if your helmet comes off due to extenuating circumstances, such as a fall through a floor or roof, the impact cap is designed to separate from the helmet shell, but remains on your head.

Quick-Connect Soft Goods & Earlaps

- Design of soft goods makes them easy to remove and clean, helping firefighters align with NFPA 1851 guidelines.
- Design uses few hook and loop fasteners for soft goods durability.
- Pre-made holes fit right into suspension.
- Headband and cushion liner designed to help reduce pressure points during prolonged wear, based on customer feedback
- Earlaps guickly connect through series of four guick-connect fasteners, aiding in preventing bunching of earlaps.

Lightweight Design

• One of the lightest helmets on the market, weighing in at only 3.35 lb. / 53.6 oz. (1.52 kg)*.



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- Accommodates a 5³/₈-8³/₈ hat size.
- Ratchet and dome design allow adjustments for a large range of head sizes.

42% Reduction in Parts

 Compared to Cairns 1010/1044 Fire Helmets. Helps with ease of disassembly, resulting in fewer parts and easier repair and maintenance.

Built-in RFID Allows for Integration into FireGrid[™] Ecosystem

Benefits of FireGrid Integration include:



New Articulating Defender[®] Visor

- Retractable and articulating eyewear system stows neatly, cleanly, and securely inside the helmet.
- Easy removal for cleaning and replacement—requires no tools.

Redesigned Soft Goods Utilize TenCate Tecasafe[®] Plus TechT4[™] Material

- "TechT4[™] feels just like a t-shirt while offering lightweight, comfortable FR protection where you need it most-next to skin."
- "Integrated wicking COOLDERM TECHNOLOGY offers enhanced moisture management to promote body temperature regulation and breathability."
- "The base component of the multi-layer FR system, Tech T4™ offers comfort with no-melt / no-drip next-to-skin protection." • From TenCate Website: https://us.tencatefabrics.com/techt4-mil

New Expanded & Pivoting Ratchet & Adjustment Arms

- Redesign offers adjustable fit for diverse head sizes, hairstyles, and headwear.
- Allows for more comfortable fit while wearing facepiece and hood.
- Easy adjustment (front and rear) and customization
- for your head size/shape.

New Laser Etching for Labels

• Removes possibility of labels wearing out and/or falling out of helmet.

Adaptable to a Wide Variety of Head Sizes

• New design capable of accommodating 95% of firefighters based on NIOSH anthropometric data and testing.

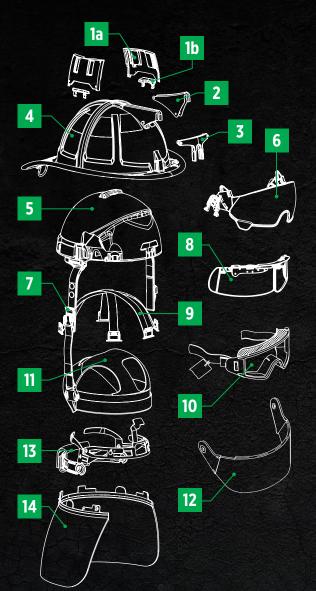
- Lifecycle Management: Monitor and better prepare for your next gear purchase and needs based on PPE retirements and serviceability. Operating Efficiencies: Keep track of gear, personnel assignments,
- and cleanings—all in one, secure location.

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• Standards Compliance: Maintain compliance with NFPA 1851 by recording required advanced inspection and cleanings.



Detail View



KEY

- 1a Accountability Brackets (optional)
- **1b** Anchor Base
- 2 Front Holder
- (5.5" or 6" option)
- 3 Front Bracket
- Shell
- 5 Impact Cap
- 6 Defender[®] Visor

- 7 Chinstrap NFPA Bourkes
- Suspension
- 10 Goggles
- **Cushion Liner**
- 12 4" Faceshield 13 Headband Assembly
- 14 Earlaps

Ordering Information

Cairns 1836 Fire Helmet

Color	Eye Protection	Cushion Liner	Earlaps	Front Holder	Chinstrap	Trim Type	Trim Color
Black	Defender Clear	Standard	Yellow Nomex	6" Silkscreened Eagle	2-pt Standard	Reflexite	Lime Yellow
Black	Defender Clear	Standard	Black Nomex	6" Carved Eagle	2-pt Standard	Reflexite	Lime Yellow
Black	Defender Clear	Leather	PBI/Kevlar	6" Carved Eagle	2-pt Standard	Reflexite	Lime Yellow
Black	Defender Amber	Standard	Black Nomex	6" Silkscreened Maltese Cross	2-pt Standard	Reflexite	Lime Yellow
Black	NFPA Bourkes	Standard	Black Nomex	6" Silkscreened Maltese Cross	2-pt Standard	Reflexite	Lime Yellow
Black	NFPA Bourkes	Standard	Black Nomex	6" Carved Eagle	2-pt Standard	Reflexite	Lime Yellow
Black	Defender Clear	Standard	Yellow Nomex	6" Carved Eagle	2-pt Standard	Reflexite	Lime Yellow
Black	Defender Clear	Standard	Black Nomex	6" Carved Eagle	2-pt Standard	Scotchlite	Lime Yellow
Yellow	Defender Clear	Standard	Yellow Nomex	6" Silkscreened Eagle	2-pt Standard	Reflexite	Lime Yellow
Yellow	Defender Clear	Standard	Black Nomex	6" Carved Eagle	2-pt Standard	Reflexite	Lime Yellow
Red	Defender Clear	Standard	Black Nomex	6" Carved Eagle	2-pt Standard	Reflexite	Lime Yellow
Red	Defender Clear	Standard	Yellow Nomex	6" Silkscreened Eagle	2-pt Standard	Reflexite	Lime Yellow
White	Defender Clear	Standard	Yellow Nomex	6" Silkscreened Eagle	2-pt Standard	Reflexite	Lime Yellow
White	Defender Clear	Leather	PBI/Kevlar	6" Carved Eagle	2-pt Standard	Reflexite	Lime Yellow
	Black Black Black Black Black Black Black Yellow Yellow Red Red White	BlackDefender ClearBlackDefender ClearBlackDefender ClearBlackDefender AmberBlackNFPA BourkesBlackNFPA BourkesBlackDefender ClearBlackDefender ClearBlackDefender ClearYellowDefender ClearRedDefender ClearRedDefender ClearWhiteDefender Clear	BlackDefender ClearStandardBlackDefender ClearStandardBlackDefender ClearLeatherBlackDefender AmberStandardBlackDefender AmberStandardBlackNFPA BourkesStandardBlackDefender ClearStandardBlackDefender ClearStandardBlackDefender ClearStandardBlackDefender ClearStandardBlackDefender ClearStandardYellowDefender ClearStandardRedDefender ClearStandardRedDefender ClearStandardWhiteDefender ClearStandard	BlackDefender ClearStandardYellow NomexBlackDefender ClearStandardBlack NomexBlackDefender ClearLeatherPBI/KevlarBlackDefender AmberStandardBlack NomexBlackDefender AmberStandardBlack NomexBlackNFPA BourkesStandardBlack NomexBlackNFPA BourkesStandardBlack NomexBlackDefender ClearStandardBlack NomexBlackDefender ClearStandardYellow NomexYellowDefender ClearStandardBlack NomexYellowDefender ClearStandardBlack NomexYellowDefender ClearStandardBlack NomexRedDefender ClearStandardBlack NomexRedDefender ClearStandardYellow NomexWhiteDefender ClearStandardYellow Nomex	BlackDefender ClearStandardYellow Nomex6" Silkscreened EagleBlackDefender ClearStandardBlack Nomex6" Carved EagleBlackDefender ClearLeatherPBI/Kevlar6" Carved EagleBlackDefender ClearLeatherPBI/Kevlar6" Silkscreened Maltese CrossBlackDefender AmberStandardBlack Nomex6" Silkscreened Maltese CrossBlackNFPA BourkesStandardBlack Nomex6" Carved EagleBlackNFPA BourkesStandardBlack Nomex6" Carved EagleBlackDefender ClearStandardYellow Nomex6" Carved EagleBlackDefender ClearStandardBlack Nomex6" Carved EagleBlackDefender ClearStandardBlack Nomex6" Carved EagleBlackDefender ClearStandardBlack Nomex6" Carved EagleYellowDefender ClearStandardBlack Nomex6" Carved EagleYellowDefender ClearStandardBlack Nomex6" Carved EagleRedDefender ClearStandardBlack Nomex6" Carved EagleRedDefender ClearStandardYellow Nomex6" Silkscreened EagleWhiteDefender ClearStandardYellow Nomex6" Silkscreened Eagle	BlackDefender ClearStandardYellow Nomex6" Silkscreened Eagle2-pt StandardBlackDefender ClearStandardBlack Nomex6" Carved Eagle2-pt StandardBlackDefender ClearLeatherPBI/Kevlar6" Carved Eagle2-pt StandardBlackDefender ClearLeatherPBI/Kevlar6" Silkscreened Maltese Cross2-pt StandardBlackDefender AmberStandardBlack Nomex6" Silkscreened Maltese Cross2-pt StandardBlackNFPA BourkesStandardBlack Nomex6" Carved Eagle2-pt StandardBlackNFPA BourkesStandardBlack Nomex6" Carved Eagle2-pt StandardBlackDefender ClearStandardBlack Nomex6" Carved Eagle2-pt StandardBlackDefender ClearStandardBlack Nomex6" Carved Eagle2-pt StandardBlackDefender ClearStandardBlack Nomex6" Carved Eagle2-pt StandardPellowDefender ClearStandardBlack Nomex6" Carved Eagle2-pt StandardYellowDefender ClearStandardBlack No	BlackDefender ClearStandardYellow Nomex6" Silkscreened Eagle2-pt StandardReflexiteBlackDefender ClearStandardBlack Nomex6" Carved Eagle2-pt StandardReflexiteBlackDefender ClearLeatherPBI/Kevlar6" Carved Eagle2-pt StandardReflexiteBlackDefender ClearLeatherPBI/Kevlar6" Carved Eagle2-pt StandardReflexiteBlackDefender AmberStandardBlack Nomex6" Silkscreened Maltese Cross2-pt StandardReflexiteBlackNFPA BourkesStandardBlack Nomex6" Carved Eagle2-pt StandardReflexiteBlackNFPA BourkesStandardBlack Nomex6" Carved Eagle2-pt StandardReflexiteBlackDefender ClearStandardBlack Nomex6" Carved Eagle2-pt StandardReflexiteBlackDefender ClearStandardYellow Nomex6" Carved Eagle2-pt StandardReflexiteBlackDefender ClearStandardBlack Nomex6" Carved Eagle2-pt StandardReflexiteBlackDefender ClearStandardBlack Nomex6" Carved Eagle2-pt StandardReflexiteBlackDefender ClearStandardBlack Nomex6" Carved Eagle2-pt StandardReflexiteBlackDefender ClearStandardYellow Nomex6" Carved Eagle2-pt StandardReflexiteYellowDefender ClearStandardBlack Nomex6" Carved Eagle2-pt

Cairns 1836 Spare Parts & Accessories

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P/N	Description	P/N	Description		
10228565	Front Bracket Kit	10204155	2 pt (20.5" long, standard length)		
10238753	Leather Soft Goods Replacement Kit	10207044	2 pt (28" long)		
	(includes cushion liner, ratchet pad, yellow Nomex earlaps)	10226184	2 pt (shorter center, 27.5" long)		
10238755	Standard Soft Goods Replacement Kit (includes cushion liner, ratchet pad, yellow Nomex earlaps)	10225399	Extended Postman Chinstrap with Leather Protector		
10246770	Standard Soft Goods Replacement Kit (includes cushion liner, ratchet pad, black Nomex earlaps)	10204160	4 pt (20.5" long)		
10238787	Headband Assy System Replacement Kit	Goggles			
10238825	6 point Suspension System Replacement Kit	P/N	Description		
10238966	Earlap Replacement Kit - Yellow Nomex		ESS Innerzone 2 Goggle with Low-Profile Hardware Kit		
10239008	Earlap Replacement Kit - Black Nomex		ESS Innerzone 2 Goggle with Side-Mount Hardware Kit		
10239125	Earlap Replacement Kit - PBI	10032882	ESS Innerzone 3 Goggle		
10239130	Carved Eagle Front Holder Replacement Kit, Brass, 6 in.				
10239132	Carved Eagle Front Holder Replacement Kit, Brass, 5.5 in.				
10239133	Silkscreened Eagle Front Holder Replacement Kit, Brass, 6 in.	Bourkes	Bourkes Lenses		
10239135	Silkscreened Eagle Front Holder Replacement Kit, Brass, 5.5 in.	P/N	Description		
10246604	Silkscreened Maltese Cross Front Holder Replacement Kit, Brass, 5.5 in.	10186311	NFPA-compliant Bourkes Lens and Hardware Kit		
10246603	Silkscreened Maltese Cross Front Holder Replacement Kit, Brass, 6 in.				
10239137	Anchor Release Replacement Kit				
10239139	Impact Cap Anchor Release and Lock Replacement Kit	Reflectiv	Reflective Trim		
10239142	External Faceshield Replacement Kit	P/N	Description		
10238890	External Faceshield Replacement Hardware	RP20YP	Reflexite, Lime/Yellow, 20 per sheet		
10239188	Defender Visor Replacement Kit, Clear	ST20R	Scotchlite, Red/Orange, individual		
10239192	Defender Visor Replacement Kit, Tuffshield	SP20YP	Scotchlite, Lime/Yellow, 20 per sheet		
10239194	Accountability Bracket Kit	10062656	Scotchlite, Lime/Yellow with silver center bar, 8 per shee		
10239195	Edge Trim & Helmet Hanger Replacement Kit, Black	10062655	Scotchlite, Red/Orange with silver center bar, 8 per shee		
10239204	Edge Trim & Helmet Hanger Replacement Kit, White		1.		



Removable/Washable Chinstraps



Technical Specifications

SHELL DIMENSIONS	15.3" length, 11.8" width, and a crown depth of 5.78"					
HEAD SIZE ACCOMMODATION	5% - 8%					
WEIGHT	53.6 oz. (1.5 kg)* – 63.0 oz. (1.8 kg) (weight may vary depending on helmet configuration)					
COLORS	• White • Red • Black • Yellow • Blue (painted only) • Orange (painted only) • Green (painted only) • Pink (painted only)					
FINISHES • Unpainted Matte • Painted High-Luster						
SHELL	Fiberglass composite, consisting of a high-temperature, flame and chip-resistant "through-colored" thermoset resin, reinforced with 1-inch and 2-inch chopped fiberglass, compression-molded to form a one-piece shell					
IMPACT LINER	Impact-resistant polymer liner covered by a semi-rigid open cell, high temperature, energy absorbing urethane foam					
CHINSTRAP	 Spun-Nomex webbing High-temperature, durable thermoplastic Quick-Release (QR) Cast zinc postman slide buckle 					
SOFT GOODS (cushion liner)	 Manufactured with TenCate Tecasafe[®] Plus TechT4[™] (standard comfort) Genuine leather (option) 					
EARLAPS	Nomex (yellow and black options available) PBI/Kevlar					
APPROVALS NFPA 1971-2018, Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting All eye/face protection ANSI/ISEA Z87.1 and NFPA 1971-2018, Standard on Protective Ensembles for Structure and Proximity Fire Fighting						
WARRANTY	MSA warrants MSA Cairns [®] Fire Helmets to be free from defects in materials and/or faulty workmanship for a period of ten (10) years from the date of manufacture by MSA.					

*All textile components of the Cairns 1836 Fire Helmet meet Berry Compliance requirements. Product of the US. * Includes all components with the exception of the leather front.*

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit https://us.msasafety.com/frademarks.

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