# FAST® XR Boltless

## High Cut Helmet System

The Ops-Core® FAST XR Boltless helmet is part of the FAST ballistic protection helmet family. Its innovative, lightweight design resists penetration of up to a 7.62x39mm lead core round and protects against Level IIIA / HG2 handgun projectiles and frag, at a weight of 2.94lbs (large). The FAST XR Boltless seamlessly integrates with Ops-Core's total headborne system solutions, including situational awareness, optics, and respiratory protection.

- Lightweight design capable of resisting a 7.62x39mm lead core projectile.
- High cut, ballistic shell made of a hybrid composite of the most advanced carbon, unidirectional polyethylene, and woven Aramid.
- High cut shell geometry extends critical coverage over the rear occipital lobe without load carrier interference and optimizes weight distribution for increased stability, integration, balance, and improved comfort.
- Low Profile Skeleton Rail system offers lightweight mounting for the headborne ecosystem.
- Molded liner features a proprietary recessed channel, accommodating over-the-head communications headsets with no interference or user discomfort, and the ability to doff and don the helmet without removing the headset.

## SPECIFICATIONS

**Performance Specification:** In accordance with Gentex PS1519

**NIJ Standards:** NIJ 0106.01 with NIJ 0108.01 Level IIIA (9mm FMJ / 44mag @ 1,400 ft/s) Threats

**Fragmentation Protection:**

| Projectile | Minimum V50 BL(P) at 0°(±5°) Obliquity (ft/s) | Minimum V50 BL(P) at 0°(±5°) Obliquity (m/s) |
|---|---|---|
| 2 - Grain RCC | 5,300 | 1,615 |
| 4 - Grain RCC | 4,360 | 1,329 |
| 16 - Grain RCC | 3,315 | 1,010 |
| 64 - Grain RCC | 2,210 | 674 |
| 17 - Grain FSP | 3,250 | 991 |

**Resistance to Penetration:**

| Projectile | V0 RTP at 0°(±3°) Obliquity (ft/s) | V0 RTP at 0°(±3°) Obliquity (m/s) |
|---|---|---|
| 9mm FMJ RN, 124 gr | 1,470 | 448 |
| 9mm x 18mm SJLC, 105 gr | 1,017 | 310 |
| .44 Mag SWCGC, 240 gr | 1,430 | 436 |
| .44 Mag JHP, 240 gr | 1,430 | 436 |
| 7.62mm x 23mm SJLC, 86 gr | 1,475 | 450 |
| 7.62mm x 39mm LC, 123 gr | 2,400 | 732 |
| .40S&W GDHP, 180 gr | 1,025 | 312 |

**Blunt Impact Protection:** <150 G's at 10 ft/s per ACH CO/PD 05-04: 2007

**Compression Testing:** Top-Bottom = .020" (0.51 mm) Max @ 400 lbs. (181.44 kg), Side-Side = .125" (3.18 mm) Max @ 300 lbs. (136.08 kg) lbs. per MICH Type II FQ/PD 06-35C: 2013

**Environmental Resistance:** Temperature -storage and operating at ambient, cold -60° F (-51° C), and Hot +160° F (71° C), temperature shock, flame resistance, altitude, vibration, seawater, field agent resistance, weatherometer per ACH CO/PD 05-04:2007

**Shell Construction:** Two-Stage Non Slit

**Available Sizes:** Medium (M), Large (L), X-Large (XL), XX-Large (XXL)

**Shell Thickness:** 0.280"(M) 0.290" (L/XL/XXL)

**Shell Geometry (Curvature):** FAST

**Cut Style (Side Protection):** High Cut

**Available Colors:** Tan 499, Ranger Green, Black, MultiCam®

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## SPECIFICATIONS (CONTINUED)

### SHELL SIZING & COVERAGE

| Available Sizes | Medium | Large | X-Large | XX-Large |
|---|---|---|---|---|
| **Head Size** (Circumference) | 20 ⅞ - 22 in (53-56cm) | 22 - 23 ¼ in (56-59cm) | 23 ¼ - 24 ⅜ in (59-62cm) | 24 ⅜ – 25 ⅛ in (62-64 cm) |
| **Square Coverage** | 142in$^2$ (916 cm$^2$) | 154in$^2$ (994cm$^2$) | 167in$^2$ (1077cm$^2$) | 176 in$^2$ (1135cm$^2$) |

### SHELL WEIGHT

| Available Sizes ** | Medium | Large | X-Large | XX-Large |
|---|---|---|---|---|
| **FAST XR Boltless Shell Weight** (Shell with Paint & Edge Band) | 1.57lbs (713g) | 1.72lbs (780g) | 1.89lbs (856g) | 1.97lbs (894g) |

### SYSTEM WEIGHT

| Available Sizes ** | Medium | Large | X-Large | XX-Large |
|---|---|---|---|---|
| **FAST XR Boltless System Weight** (FAST XR Shell with Vented Lux Liner w/ Occ-Dial Universal Fitband) | 2.68lbs (1214g) | 2.81lbs (1275g) | 3.02lbs (1370g) | 3.11lbs (1409g) |

(**Estimated calculations of weights) Note: All measurements are +/- 3% tolerance

**Contact Us**

Ops-Core is committed to designing advanced performance capabilities for the elite warrior. For more information regarding the Ops-Core FAST XR Boltless High Cut Helmet System, contact Ops-Core at 617.670.3547 or sales@ops-core.com.
The FAST XR Boltless High Cut Helmet is controlled for export by the U.S. Export Administration Regulations (EAR) 15 CFR 730-774. The export of this helmet and related technical information requires prior authorization from the U.S. Government.