



Critical Solutions
International



BANDOLIER

LIGHTWEIGHT CLEARING CHARGE

SIMPLE. MODULAR. MULTIPURPOSE.

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The Bandolier is CSI's lightweight pre-packaged clearing charge. By using a patented hinged tray and sleeve enclosure, Bandolier bridges the capability gap between larger, complicated breaching charges and standard bulk demolitions. Bandolier's unique modular design allows it to be light enough for dismantled operations while remaining versatile enough to meet almost any mission requirement, from explosive ordinance disposal (EOD) and counter improvised explosive device (C-IED) applications to standard combat engineer and infantryman tasks. Users receive all the obstacle breaching benefits of a pre-primed linear charge coupled with the utility and mission flexibility of powerful bulk explosive increments.

DESIGN

A Bandolier module is comprised of series of self-contained explosive "tiles" connected by a common detonation cord, all enclosed in a rugged sleeve. Each tile has an RDX main charge with twin boosters to ensure proper energetic transmission. These energetic components are encased inside a lightweight clear plastic tray to preserve the rectangular tile shape and reduce degradation. A transfer detcord runs the entire length of the charge connecting all module tiles together, with excess on each side for fusing or additional module coupling. Between each tile is a hinge that allows the charge to twist and move freely, creating flush contact when laid, hung, or placed on any target surface.

SCALABLE FLEXIBILITY

- Modules can be easily connected within seconds to create a longer, thicker, or larger linear charge.
- Modules can be linked together indefinitely, ensuring a proper charge size for every target and every mission.
- Modules can be broken down to access to smaller, pre-primed charges that can be used in place of standard bulk demolitions.

FEATURES

- Lightweight and man-portable
- Increased relative effectiveness (RE) versus C-4/PE-4
- Compatible with all NATO standard initiators
- Employed manually or with an arm-equipped robot
- Non-mechanical; no metal parts or fragmentation
- Flat rectangular charge shape that optimizes blast effects

BENEFITS

- Fast and simple deployment, even in combat environments
- Effective against a wide variety of obstacles and targets
- Natural conformity to complex geometries and shapes
- Reduced consumption with more precise charge sizing
- Lightened soldier load by cross-leveling modules



APPLICATIONS

- Path clearance
- Urban breaching
- Steel cutting
- Cache reduction
- Wood/timber cutting
- Wire obstacle reduction
- Underwater demolition
- Concrete/masonry cutting

PHYSICAL

- 10.5m total charge length
 - ▶ One (1) 1.5m module
 - ▶ Three (3) 3m modules
- 6.8kg overall weight
 - ▶ 1.5m module: 1.1kg
 - ▶ 3m module: 1.9kg
- 5.3kg net explosive weight (NEW)
- High-strength ballistic nylon packaging
- Insensitive munitions (IM) compliant
- Meets MIL-PRF 46676B(AR) test criteria
- Hazmat classification: UN0048; 1.1D

ABOUT CSI

Founded in 1999, Critical Solutions International (CSI) provides platforms that detect and mitigate evolving threats for security forces worldwide.



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This technology was developed in collaboration with C-2 Innovations Inc., a trusted engineering research partner in the C-IED mission.

