

TACTICAL CLIMBING SOLUTIONS



THE CHALLENGE

Special Operations Forces have tactical access needs ranging from climbing to fast-roping in environments from salt water to high desert.

THE SOLUTION

Battelle has developed a series of tactical climbing equipment that reflects user input from concept to finished product. Battelle tactical climbing hardware now in service includes:

- Tactical Air Initiated Launch (TAIL) System
- Improved Caving Ladder
- Rapidly Deployable Rope Ladder
- Common Tip Interface (CTI)
- Fast Rope Descend Device (FRDD)
- Pneumatic and Manual Poles

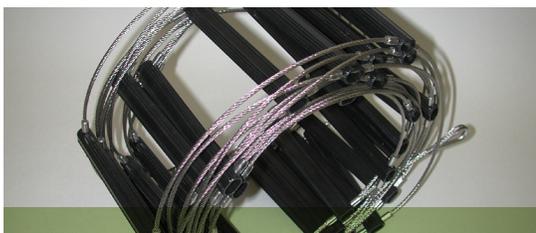
Battelle has proven expertise and experience in developing, applying, fabricating, and testing composite materials used in lightweight, high-strength structures, as well as a broad and deep knowledge of corrosion, corrosive environments, and corrosion prevention. Battelle has extensive in-house capabilities to conduct structural analysis, failure analysis, and testing results in equipment that operates reliably and safely in a variety of harsh environments.

TACTICAL AIR INITIATED LAUNCH (TAIL) SYSTEM

- Pneumatically operated TAIL system launches a tethered hook over a 100-foot obstacle with a 60-foot standoff
- Better performance than its predecessor, at a reduced cost
- Simple, rugged design provides safety and reliability with low maintenance
- Versatility to throw any object that fits into its barrel

IMPROVED CAVING LADDER

- Designed specifically for Visit, Boarding, Search, and Seizure missions
- Stainless steel construction with customized aluminum rungs improves operational life in salt water environments
- Procured by the U.S. Navy to outfit its Visit, Boarding, Search, and Seizure teams



Improved Caving Ladder



Tactical Air Initiated Launch (TAIL) System

RAPIDLY DEPLOYABLE ROPE LADDER

- Employs Kevlar® rope which endures operational use in harsh environments
- Glass-filled nylon rungs designed with operator guidance and molded over the Kevlar® rope for a seamless, lightweight solution.

COMMON TIP INTERFACE (CTI)

- Flexible and versatile, enabling operators to readily mate a variety of attachments to climbing equipment
- Secure attachment with quick-change capability while preventing unwanted tip rotation and binding

FAST ROPE DESCEND DEVICE (FRDD)

- Assists heavily loaded operators with slowing their descent while fast-roping (traveling down ropes from helicopters at low altitudes), reducing injury from hard landings
- Creates an “S” curve in the rope, increasing friction to slow the descent

MANUAL POLE

- Enables operators to place a hook high above their heads
- Created with carbon fiber composite
- Collapsible, lightweight, and easy to carry
- Allows simple interchange of tip attachments



Rapidly Deployable Rope Ladder



Common Tip Interface



Fast Rope Desend Device

Every day, the people of Battelle apply science and technology to solving what matters most. At major technology centers and national laboratories around the world, Battelle conducts research and development, designs and manufactures products, and delivers critical services for government and commercial customers. Headquartered in Columbus, Ohio since its founding in 1929, Battelle serves the national security, health and life sciences, and energy and environmental industries. For more information, visit www.battelle.org.

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