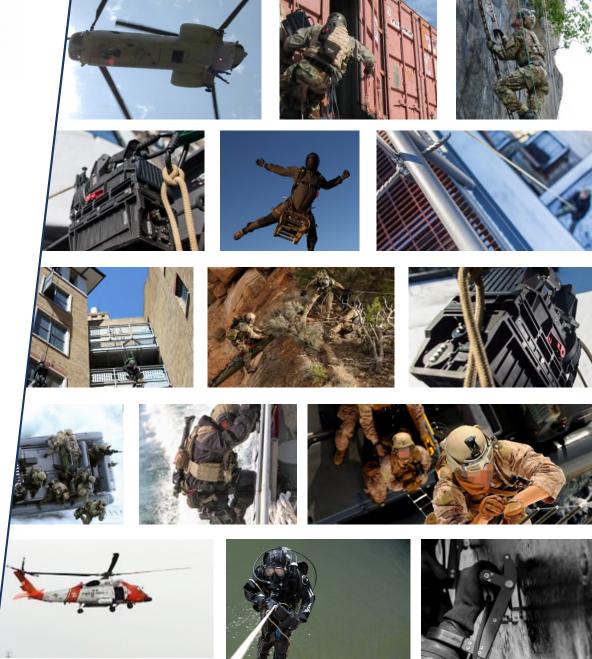


Alternate &
Dismountable
Hoist
Capabilities
for Human
External
Cargo

Product Series: APA-5 Ascenders

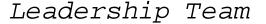


Confidential - Do Not
Distribute



Company Overview









Nate Ball
Co-Founder & CEO
MIT Mechanical
Engineer, Innovator,
Author



Dan Walker
Co-Founder & COO

MIT Mechanical

MIT Mechanical Engineer, Innovator, Mountaineer



Gino Kahaunaele *Director of Sales*

USAF Pararescue Jumper (Ret.), Paramedic, Athlete





Maritime & VBSS



Casualty Evacuation & Rescue



Urban Tactical



Airborne Extraction & Recovery





Maritime & VBSS



Casualty Evacuation & Rescue

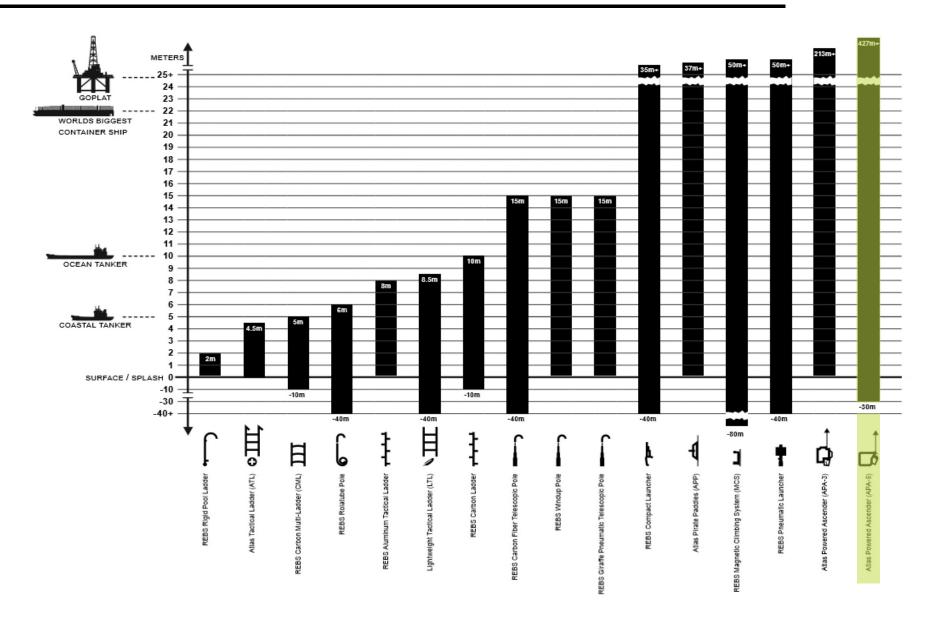


Urban Tactical



Airborne Extraction & Recovery











1. Aircraft not equipped with hoist

 CSAR teams may be tasked with mission that requires hoist capability, but hoist-equipped aircraft are not always available



2. Existing hoist can't reach

- Some environments restrict hoistborne mobility for rescuers
- Rescuer may be able to get onto roof top but not be able to get casualty to roof for extraction



3. Existing hoist has failed

- Issues with hoists and cables present immediate challenges
- Past incidents have resulted in rescuers being left far offshore for hours waiting for replacement aircraft

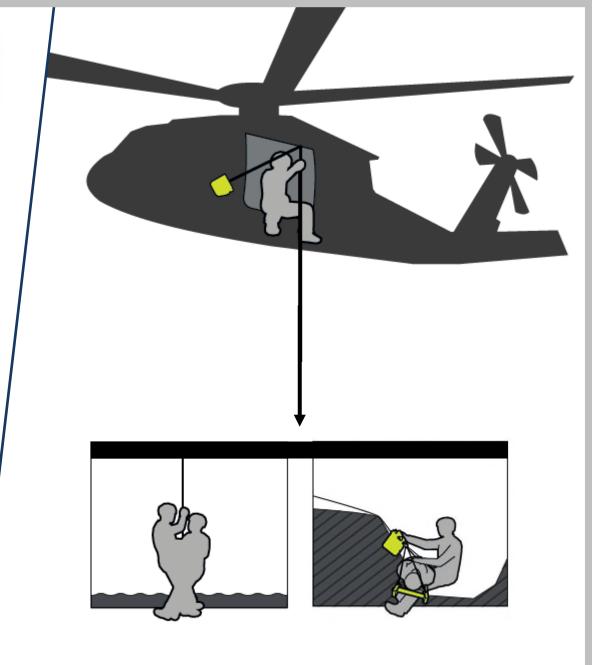






Dismountable Hoist Concept

Product Series: APA-5 Ascenders



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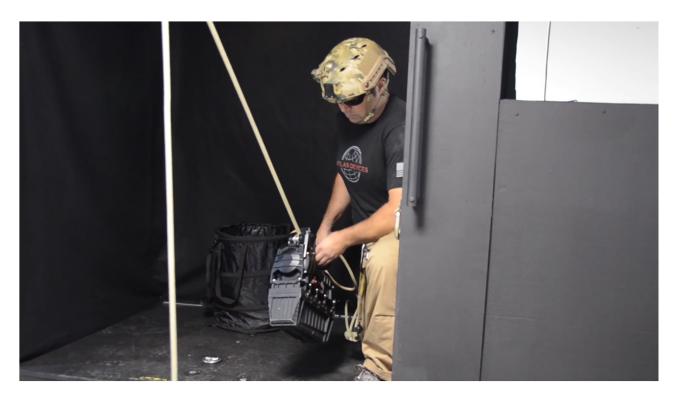
"Emergency Recovery Device (ERD)"



- Long setup time
- Heavy
- Manual hand-crank method is slow and arduous
- Up to 200 cranks to get rescuer & casualty up

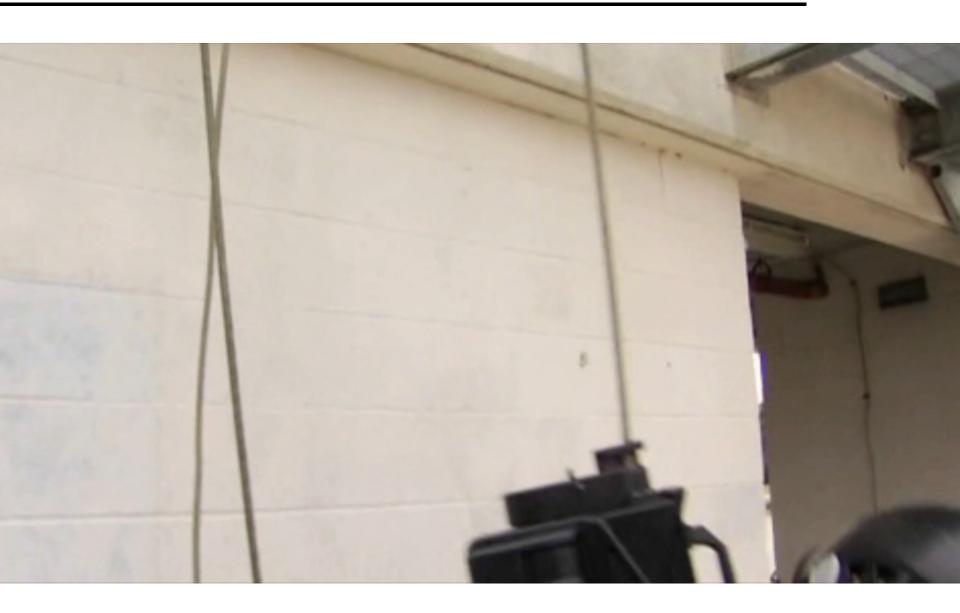


Atlas APA-5 Powered Ascender



- Fast setup time
- 30 lbs incl. Ropes
- < 40 m/min speed
- 275 kg lift capacity
- Currently being flown by USCG in training missions on H-60 aircraft





Private & Confidential 11



Atlas Powered Ascender Overview







APA-5 Series Powered Ascender Kit





APA-CHG-BC3.2

APA-5 Charger

- Power Requirements: 110-240v AC Power IEC 320 type connector
- Quick Reference Card
- Anatomy and Inspection
- Operation and Use
- Charging Times (1 Hr) Rapid Charge / 8Hr Balance Cycle









APA-5 Standard Battery PN: APA-5-STD

APA-5 Battery

- Construction
- Anatomy and Inspection
- Operation and Use





APA-5 High Capacity Battery PN: APA-5-HC1





APA-5 Powered Ascender

- Submersible Powered Ascender
- Lift Capacity: 272kg (S-Model)
- Variable Speed Trigger (0-0.7 m/sec)
- 2-Speed Intuitive Interface
- 6-11mm Diameter Rope (MRI Upgrade)
- Remote Capable (Wired/ Wireless)
- Emergency Descent







Atlas Toughline Rope

Atlas Toughline Rope

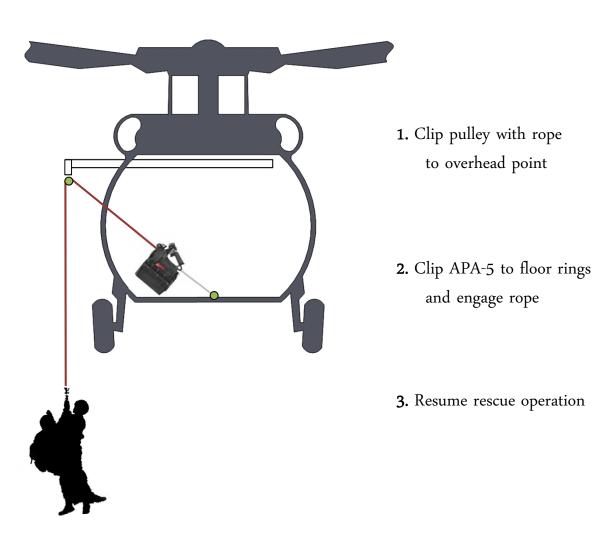
- Static
- Kernmantle
- 6-11mm
- MBL
- 10.5 Optimal Characteristics





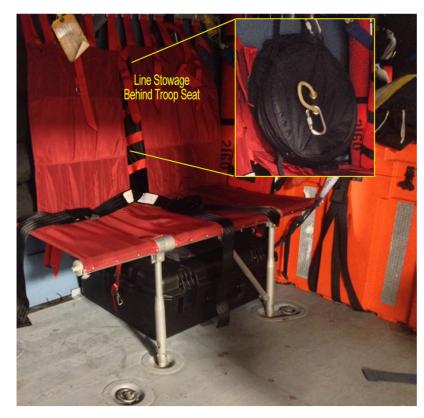
Current TTPs









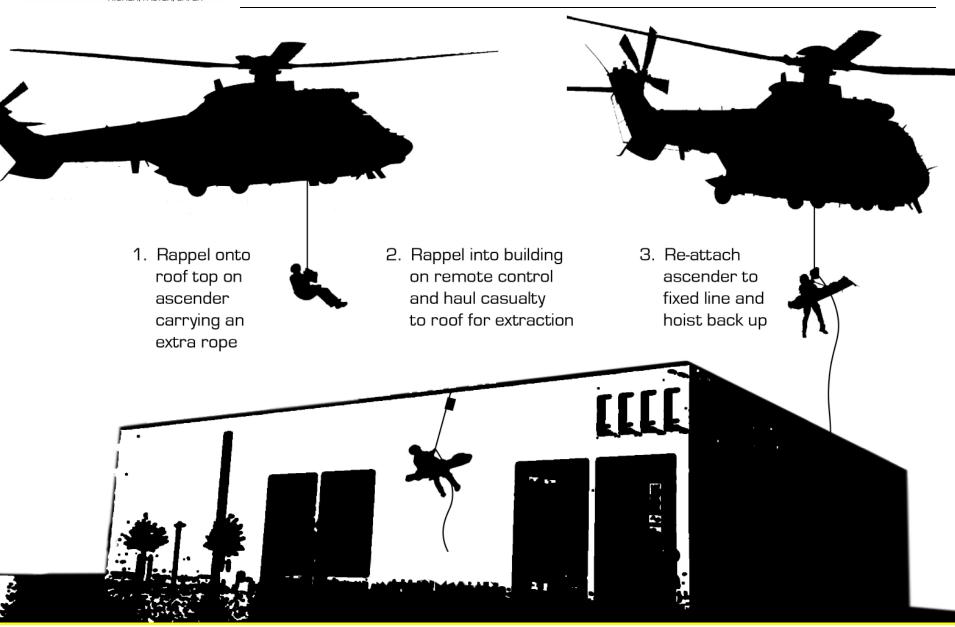


















- Use in Training Operations USCG MH-60
- NAVSEA 9310 Certified (US DoD)
- US DoD Test & Eval Cmd. Safety Confirmation
- MIL-STD 810F, MIL-STD 167
- IMCA Safe Use of Electricity Underwater
- US Navy Experimental Diving Unit –

Safe Use of Energized System Underwater









- New countries & units using APA-5s as alternate and ad-hoc hoist
- Formalized TTPs as adoption grows
- Additional 1 and 2-person product options
- Establishing training procedures that mimic real operations without having to fly aircraft
- New testing & certifications as aircraft user base expands
- Work procedures for helicopter + tower operations
- User-specific adaptations







Questions?





HIGHER, FASTER, SAFER

Please contact Atlas Devices for additional technical questions or inquiries. For all pricing questions or inquiries, please contact Atlas Devices LLC..

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