

APA-5 POWERED ROPE ASCENDER

PN: AK-APA5

ELIMINATE THE CHALLENGE OF VERTICAL OBSTACLES

Lightweight and powerful, the Atlas Devices APA-5 is a multi-mission device that hauls combat rescue loads, extends war fighter stamina, and reduces mission exposure.

To achieve a tactical advantage, perform materiel haul, or rescue casualties, military doctrine often requires the ascent of men and materiel over steep obstacles in mountainous, urban, and maritime environments. This is a highly technical and physically exhausting task that consumes the war fighter and impacts mission effectiveness. To eliminate the burden of vertical obstacles, Atlas Devices developed the APA-5.

Building upon its theater-proven predecessor, the Atlas Powered Ascender is a rugged, battery operated ascender that easily integrates into current TTPs and COTS climbing equipment. Whether operating at maritime depth, in a desert dust storm, or 100 ft AGL in a helicopter, the Atlas Powered Ascender is a force multiplier that effortlessly reduces time and exposure during vertical operations.

Lightweight – Designed for the dismounted war fighter, the ascender weight is about the same as two 150 ft lengths of 7/16 in static rope.

Interchangeable Battery – A quick connect, power tool-like battery allows for on-the-fly swapping of batteries for extended operation, pack load distribution, and improved mission planning.

Powerful – Able to lift over 600 lbs directly, the lightweight system improves force protection and reduces the operational footprint by replacing a 6-9 man haul team and complicated haul systems for CASEVAC missions.



**RUN UP THE WALL
WITH 600 POUNDS ON THE LINE**



PRODUCT SIZE COMPARISON



APA-5



APA-3



CAPABILITIES AND SPECIFICATIONS

Ascender

- PN: APA-5, APA-5-S
- Weight: 14.5 lbs / 6.6 kg
- Max direct lift capacity: 600 lbs / 272 kg
- Ascent/descent speed: Variable
- Intuitive power tool-like operation / Variable speed control
- Submerged system operation
- Load-rated housing

Battery

- Depth-rated interchangeable battery
- * Additional battery specifications are located in the standard battery and high capacity battery sections

Rope

- Rope diameter: 11 mm static kernmantle
- Smaller rope diameter capability: Optional - 6.0 - 11.0 mm
- Integrates seamlessly with COTS climbing equipment

Environmental

- Operational seawater depth rating
- Operating Temp Range: -10° F to +120° F / -23° C to +49° F

Safety

- Fully tensile load-rated housing
- Ergonomic safety interlock for operation
- Emergency mechanical descent without battery
- Non-volatile battery if punctured by ballistic

Options

- Wired or wireless remote control
- High-speed ascent (lower max lift capacity)
- Multi-diameter rope capability in single configuration
- Extended life battery

Certifications

- Meets relevant IMCA Standards for safe use of electricity underwater
- Meets relevant standards for Safe Use of Energized System at Operational Maritime Depth by U.S. Navy Experimental Diving Unit
- NAVSEA 9310 Certified by US DoD
- US DoD Test and Evaluation Command Safety Confirmation - Certification for Operational Use
- Environmental: MIL-STD 810F, MIL-STD 167

WIRELESS REMOTE

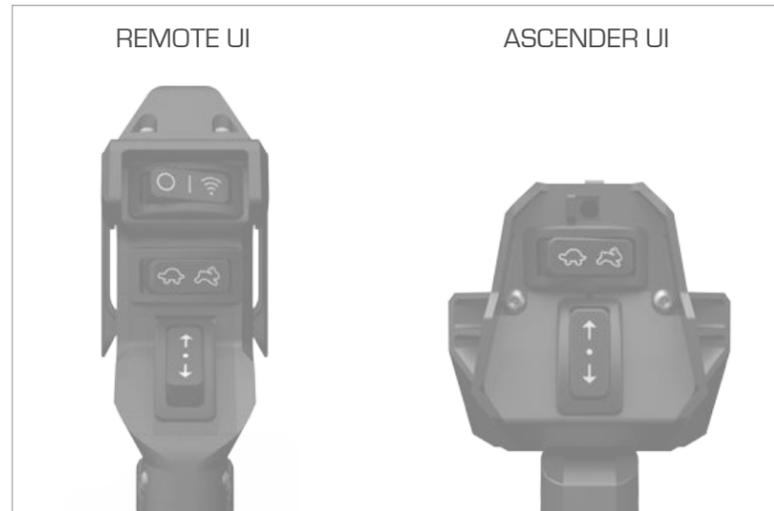
The wireless remote control is an optional accessory that can operate the APA-5 from a distance. The remote is designed to mimic the user interface of the main ascender, including fully proportional ascent and descent control in both fast and slow modes. The remote communicates with a wireless receiver module that is integrated with the ascender as an add-on item.

The wireless remote control expands the capability of the ascender especially in "hands off scenarios" such as hoisting into a helicopter, where it is necessary to have control of both the ascender and the incoming load at the same time.

A wired configuration of the remote control is also available and can be plugged directly into the ascender unit.

SPECIFICATIONS AND CAPABILITIES

- PN: APA5-RMCWL
- User Interface (UI) identical to ascender
- Variable speed control in both fast and slow modes
- Ergonomic grip and controls
- Indicator LED cover for signature management
- Rugged All Metal Construction
- Tactical vest clip (can be operated easily while clipped)
- Carabiner clip loop for stowage
- Battery Operated / 4x AAA Batteries
- Maritime Depth Rated
- Rapid pairing capability with Atlas Devices wireless receiver
- Instant operational and safety hand off between APA-5 and remote controls
- Wireless range up to 328 ft / 100 m
- Encrypted
- Weight: 1.44 lbs / 0.65 kg



WIRELESS RECEIVER

The wireless receiver is an optional accessory that pairs with the wireless remote. The receiver module seamlessly integrates within the ascender system, creating a low profile, reliable unit with wireless operating capabilities. Just like the ascender, the wireless receiver is fully waterproof, rugged and performs in any environment.

SPECIFICATIONS AND CAPABILITIES

- PN: APA5-RMCWL
- Intuitive user interface
- Interchangeable user-level pairing with any Atlas Devices wireless remote control
- Wireless range up to 328 ft / 100 m
- Submerged system operation
- Compact



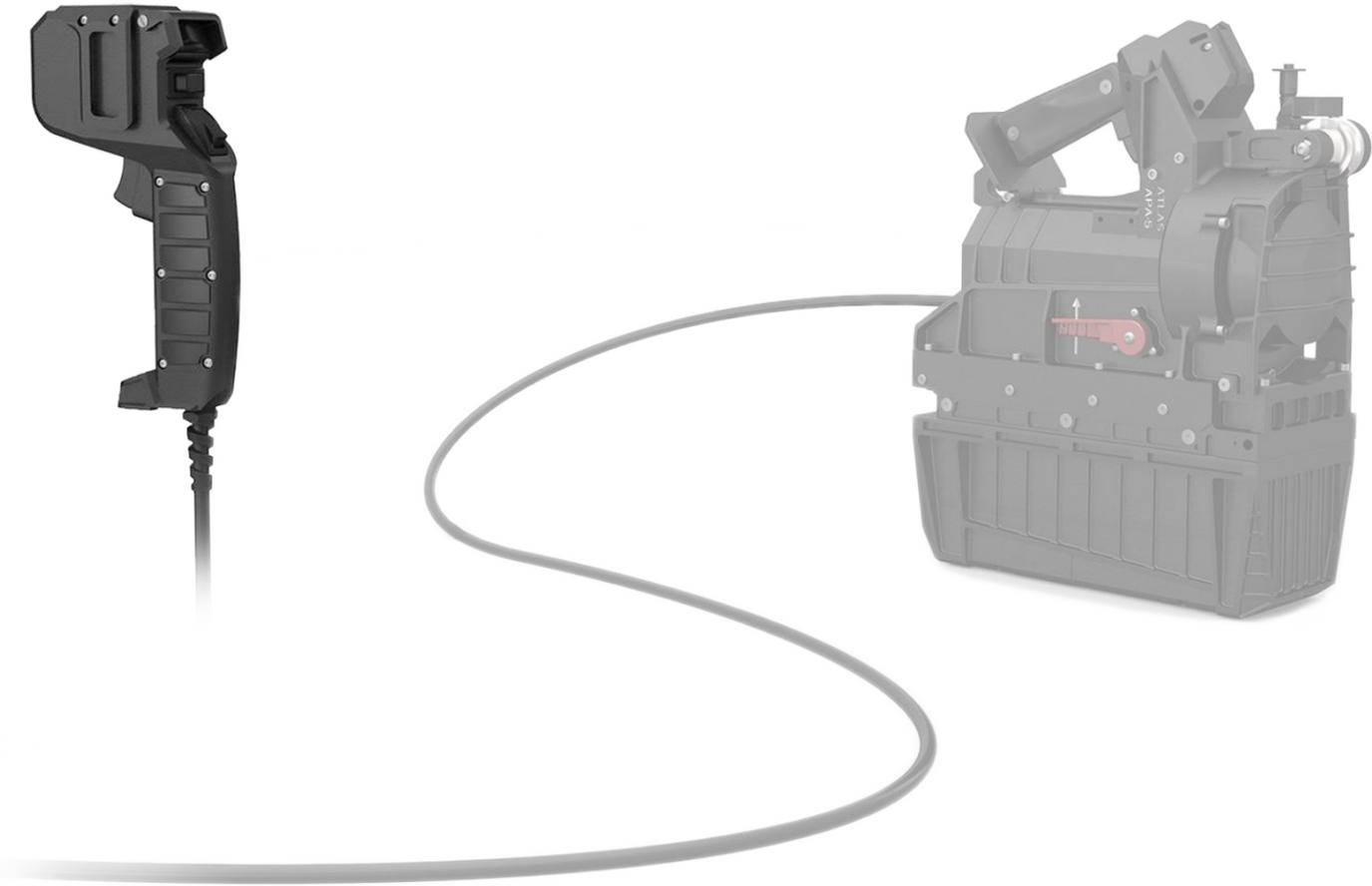
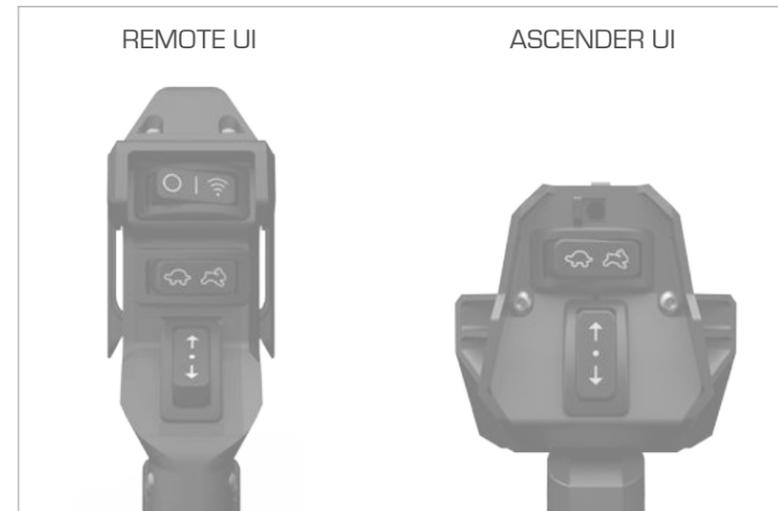
WIRED REMOTE

The wired remote control is an optional accessory that can operate the APA-5 using the auxiliary remote port on the ascender. The remote is designed to mimic the user interface of the main ascender, including fully proportional ascent and descent control in both fast and slow modes.

The wired remote control expands the capability of the ascender especially in "hands off scenarios" such as hoisting into a helicopter, where it is necessary to have control of both the ascender and the incoming load at the same time

SPECIFICATIONS AND CAPABILITIES

- PN: APA5-RMC
- User Interface (UI) identical to ascender
- Variable speed control in both fast and slow modes
- Ergonomic grip and controls
- Tactical vest clip (can be operated easily while clipped)
- Carabiner clip loop for stowage
- Wired for Sensitive Environment Operations
- Custom Lengths Available
- Fully Operational at Maritime Depth
- Indicator LED cover for signature management
- Instant operational and safety hand off between APA-5 and remote controls

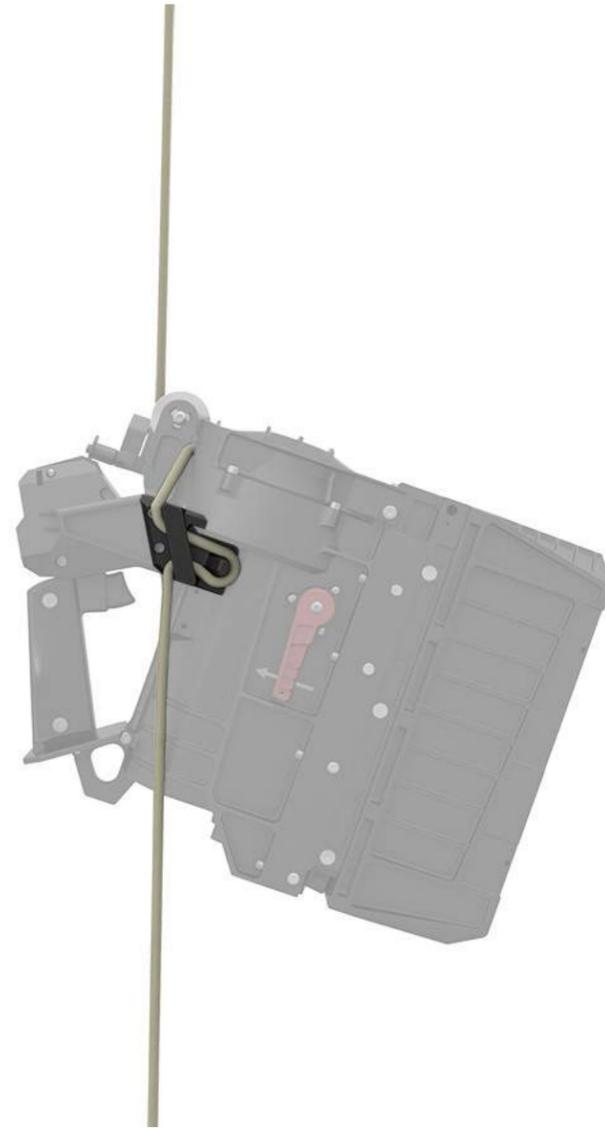


SMALL DIAMETER ROPE DEVICE

The APA-5 ascender is able to operate a wide variety of rope diameters from 6.0-11.0 mm when the Multi-diameter Rope Capability option is selected. In addition to modifications to the rope interaction mechanism on the APA-5 unit, the Small Diameter Rope Device is included with the system to optimize operations with small diameter ropes (6.0 - 8.0 mm). This patented lightweight and compact device is a modular attachment that can be rapidly engaged with a bight of rope.

SPECIFICATIONS AND CAPABILITIES

- PN: APA5-MRI
- Enables operation of 6.0-11.0 mm ropes without tools or reconfiguration
- Quick engagement in seconds with bight of rope
- All metal, rugged construction
- Weight: 0.46 oz / 13 g



EDGE PROTECTION GUARD

The Edge Protection Guard is an optional accessory that safely directs load in applications where the ascender is used as a winch loaded against a ground plane. The Edge Protection Guard provides increased stability, traction and protects vital parts of the ascender system in these scenarios. Its unique design allows for a hot swap battery interchange while operating the system under load. When the guard is not in use, the modular guard can easily be disconnected with a quick release pin.

SPECIFICATIONS AND CAPABILITIES

- PN: APA-5 BATT EDGE PRO
- Enables hot swap interchange of battery while system is loaded
- Enables hoist operations without high point anchor
- Increased overall system traction via micro spikes
- Increases overall system stability
- Rescue load rated
- Lightweight and rugged



STANDARD DISTANCE BATTERY (INTERCHANGEABLE)

The APA-5 features an interchangeable battery. The power supply can be replaced during operation, while under load, and while fully submerged. This unique feature provides a functional advantage, extending the use time of the ascender during critical operations. Like the rest of the APA-5 system the battery is depth rated and rugged.

SPECIFICATIONS AND CAPABILITIES

- PN: APA5-BATT-STD
- Weight: 7.5 lbs / 3.4 kg
- Dimensions: 10.25 x 4.7 x 4.6 in (26 x 11.9 x 11.7 cm)
- Ascent distance per charge, single user:
700 ft @ 250 lbs / 213 m @ 113 kg
- LED light status feedback
- Submergence rating allows connect/disconnect at depth
- Ergonomic design for interchange during operation
- Interchangeable
- Redundant mechanical interlock
- Recharge battery upon descent
- NAVSEA 9310 Certified



HIGH CAPACITY BATTERY (INTERCHANGEABLE)

For operations that require additional time and a larger power supply, Atlas Devices offers a high capacity battery. Just like the standard distance unit, the high capacity battery is interchangeable during operation, submersible and rugged. The High Capacity Battery offers 2x the ascending distance of the Standard Distance Battery in a package that is less than 2x the size and weight of the Standard Distance Battery.

SPECIFICATIONS AND CAPABILITIES

- PN: APA5-BATT-HC1
- Weight: 12.4 lbs / 5.6 kg
- Dimensions: 11.38 x 6.4 x 4.9 in (28.9 x 16.3 x 12.4 cm)
- LED light status feedback
- Ascent distance per charge, single user:
1,400 ft @ 250 lbs / 427 m @ 113 kg
- Submergence rating allows connect / disconnect at depth
- Ergonomic design for interchange at during operation
- Interchangeable
- Redundant mechanical interlock
- Recharge battery upon descent
- NAVSEA 9310 Certified





ATLAS DEVICES TOUGHLINE

Atlas Devices' ToughLine is a static kernmantle rope developed specifically for the demands of powered ascent. Leveraging a Technora sheath and optimized weave construction, the Atlas Toughline is the ideal rope for use with Atlas Powered Ascenders and provides superior abrasion resistance, shape and prolonged life - especially with heavy loads. Although other kernmantle ropes can be used by the Atlas Powered Ascenders, the Toughlines have consistently outperformed other ropes in all environmental conditions ranging from iced, wet, sandy, dirty, and soiled environments without any degradation in performance. **DO NOT** use Atlas Powered Ascenders with twisted nylon, hemp "gold line," or other non-kernmantle ropes!



**10.5 MM
ATLAS TOUGHLINE
(Static Kernmantle)**
PN: ATL-150-10.5

MBS: 10,000 lbf
WEIGHT:
71.68 g/m
(4.8 lb/100ft)



**9 MM
ATLAS TOUGHLINE
(Static Kernmantle)**
PN: ATL-150-9

MBS: 6,500 lbf
WEIGHT:
54.60 g/m
(3.6 lb/100ft)



**8 MM
ATLAS TOUGHLINE
(Static Kernmantle)**
PN: ATL-150-8

MBS: 4,500 lbf
WEIGHT:
41.68 g/m
(2.8 lb/100ft)



**6.5 MM
ATLAS TOUGHLINE
(Static Kernmantle)**
PN: ATL-150-6.5

MBS: 4,500 lbf
WEIGHT:
29.51 g/m
(1.4 lb/100ft)

**ATLAS TOUGHLINE
CUSTOM PER FOOT
ATL-XFT-{DIAMETER}**