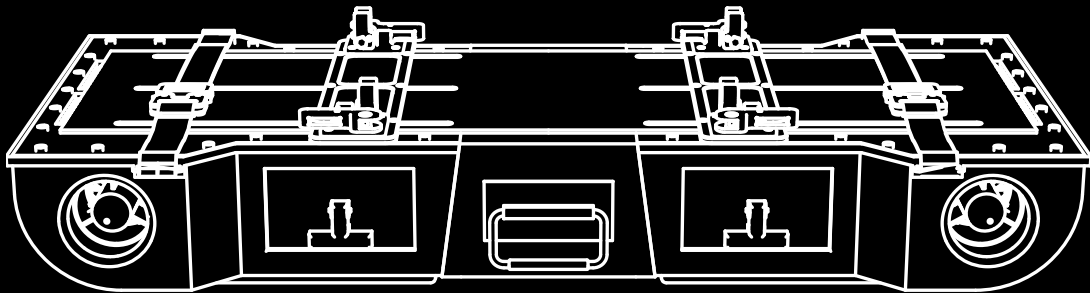


VITA RESCUE SYSTEM™

Technical Data



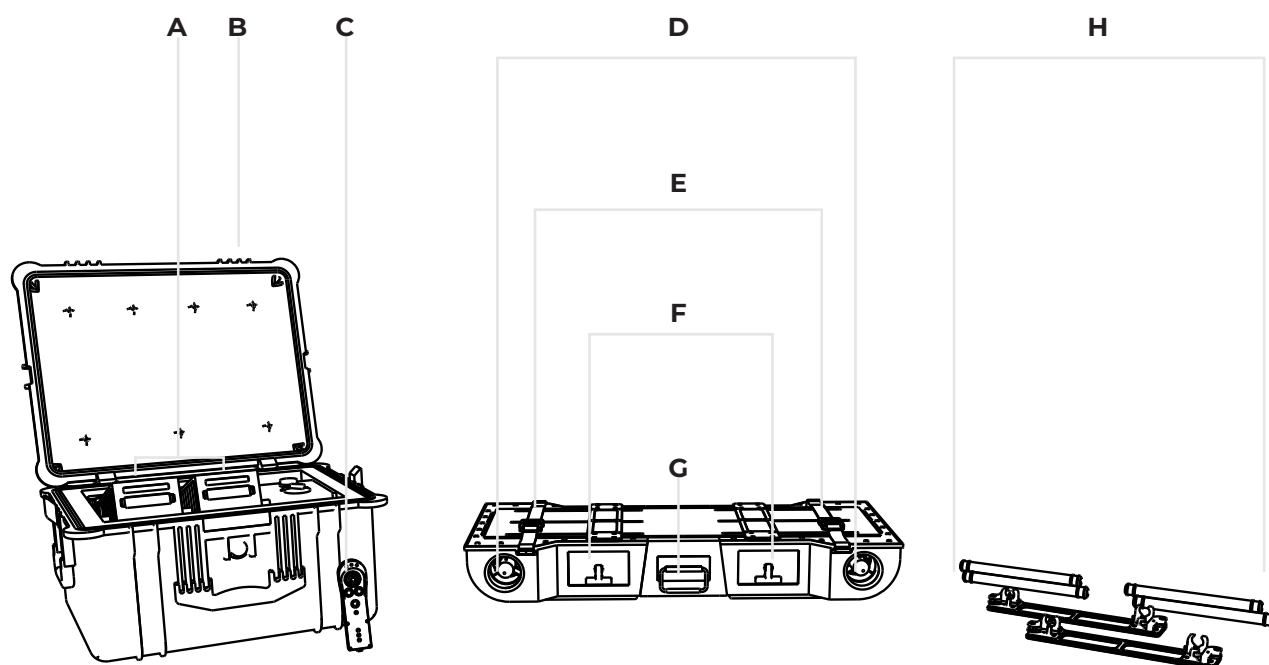
REMOTELY STABILIZE RESCUE KITS UNDER HELICOPTERS



vitaerospace.co

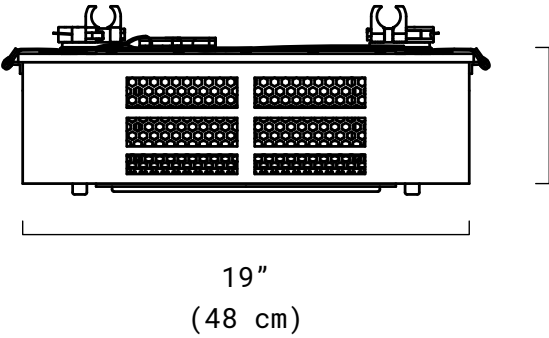
v1.0

Components

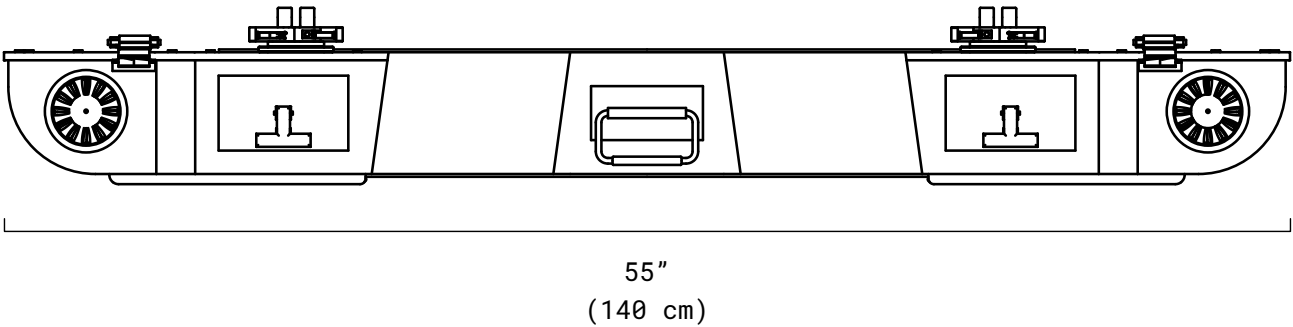
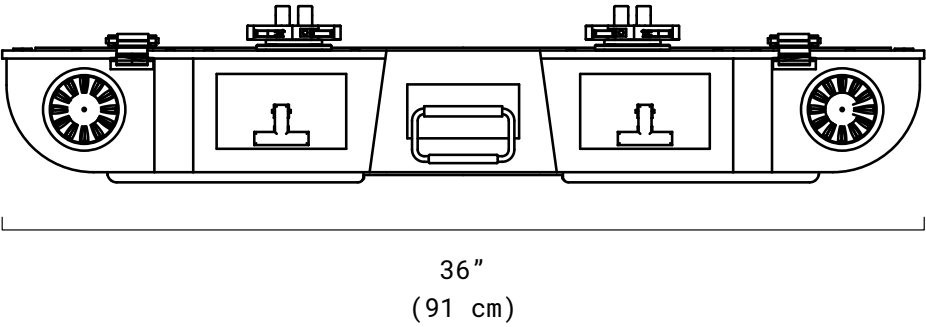


- | | | | |
|----------|---|----------|---|
| A | 2x Batteries | E | 2x Attachment straps with Cobra buckles |
| B | Battery charger and case | F | Battery compartments |
| C | Wireless control pendant with Molle strap compatible bracket (not pictured) | G | Handle for transport |
| D | Bi-directional propulsion system | H | 2x Litter clamps and 4x sleeves |

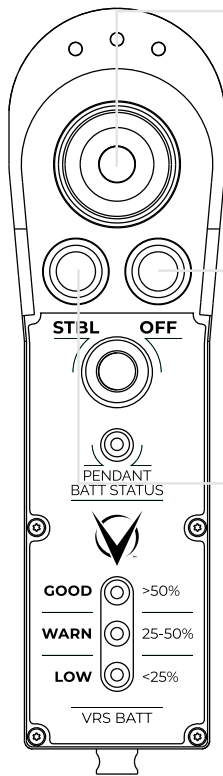
Dimensions



- * The attachment clamps add an extra 20 mm (.8") to the total height
- ** Total system weight: 60-66lbs (27-30kg) depending on configuration



Capabilities



DIRECT CONTROL

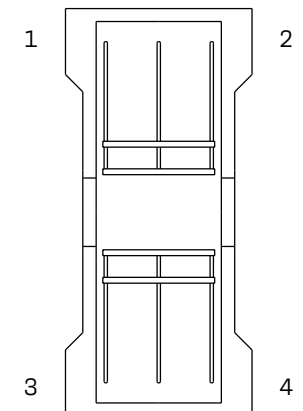
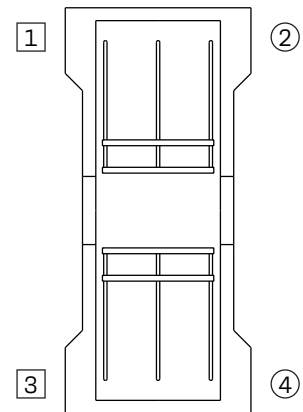
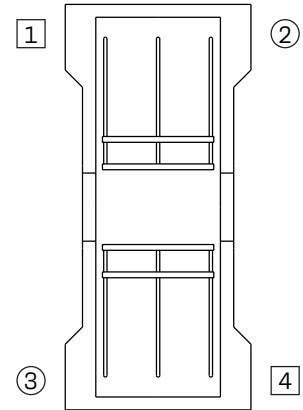
Direct control counters spin and allows the operator to rotate the Vita Rescue System (VRS) clockwise (thrusters 1 and 4) or counter-clockwise (thrusters 2 and 3). While in direct control, the VRS will automatically eliminate spin from rotor wash, wind, or other environmental conditions.

STABILIZE

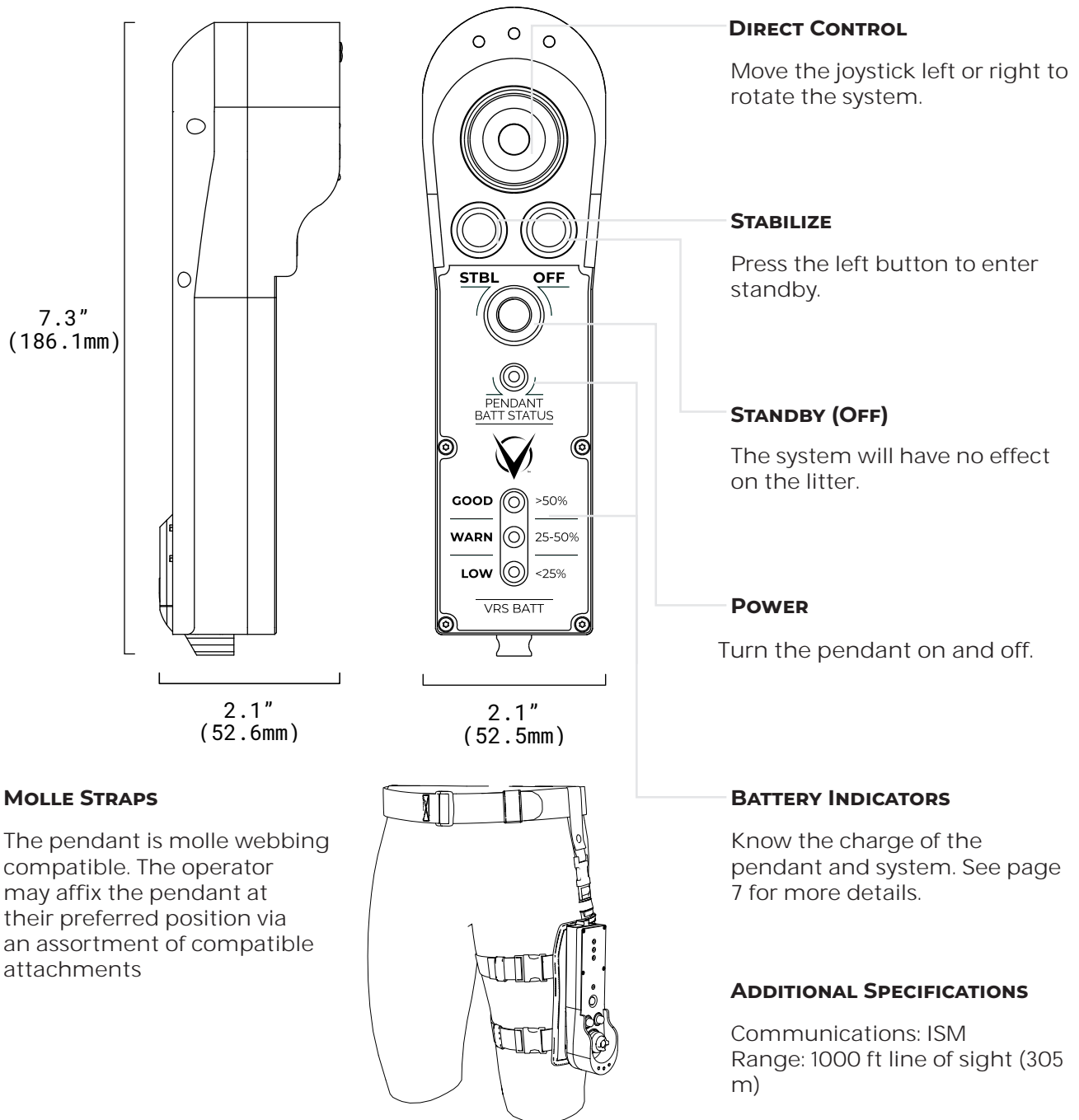
Stabilize mode stabilizes all rescue kit motion: both swing and spin, simultaneously. If in chaotic motion where both swing and spin are present, the VRS will first stop the spin, then align the bi-directional propulsion system to the swing direction and mitigate.

STANDBY (OFF)

The VRS bi-directional propulsion systems are inactive, but ready for use. The system automatically enters standby when it comes into contact with the ground or water. No thrusters are utilized for standby.



Wireless Pendant



Zones of Operation

1. STANDBY ZONE

STANDBY	DIRECT CONTROL	STABILIZE
YES	NO	NO

From the hoist to the landing gear, the system is to remain in standby.

2. TRANSITION ZONE

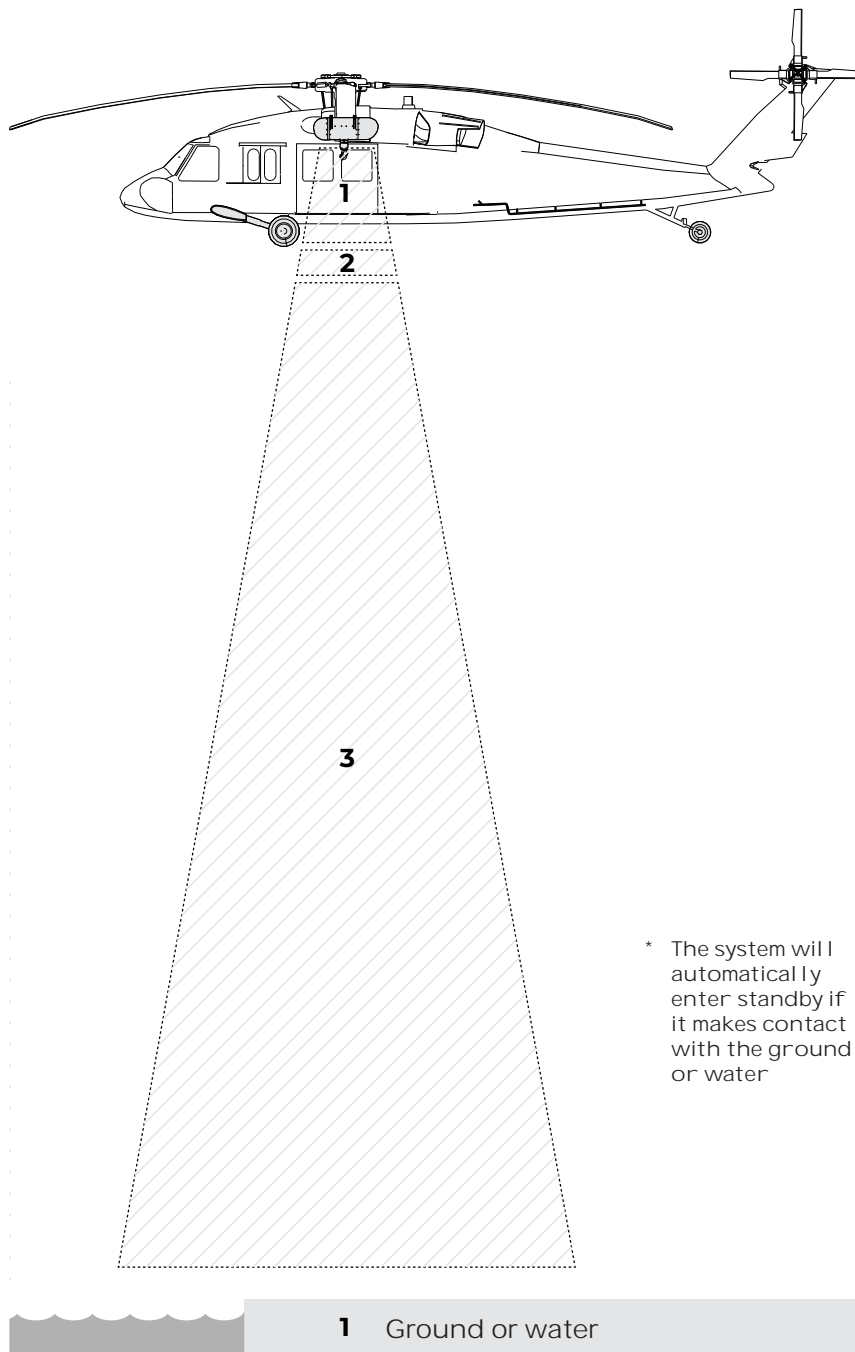
STANDBY	DIRECT CONTROL	STABILIZE
YES	YES	NO

The zone approximately 1m below the landing gear is referred to as the transition zone.

3. ACTIVE ZONE

STANDBY	DIRECT CONTROL	STABILIZE
YES	YES	YES

From the end of the transition zone to the ground is referred to as the active zone.

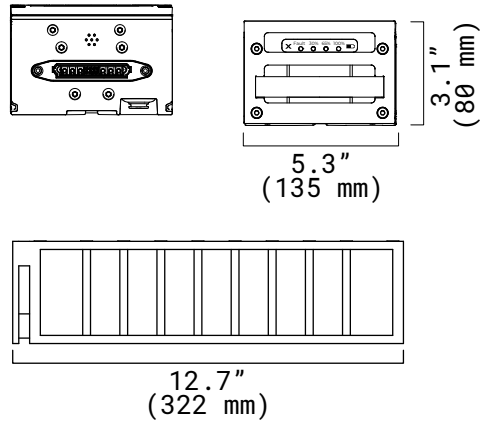


* The system will automatically enter standby if it makes contact with the ground or water

Batteries

SPECIFICATIONS

The Vita Rescue System is powered by two identical, cold-swappable Lithium Iron Phosphate smart battery systems". Nominal operational duration is 4-16 where the resolve hoist count is driven by mission-specific characteristics. Battery swap may occur in under 1 minute.

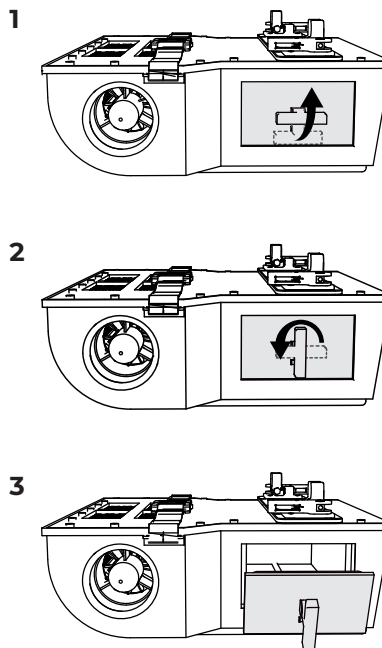


BATTERY DOORS

There are two battery doors, each located on the same side of the Vita Rescue System. Batteries are to be installed with the LED interface facing outwards.

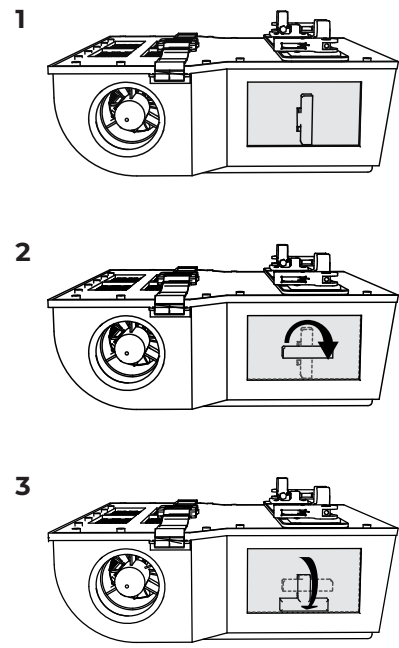
OPENING

- 1 Pull (up)
- 2 Twist (counter-clockwise)
- 3 Open



CLOSING

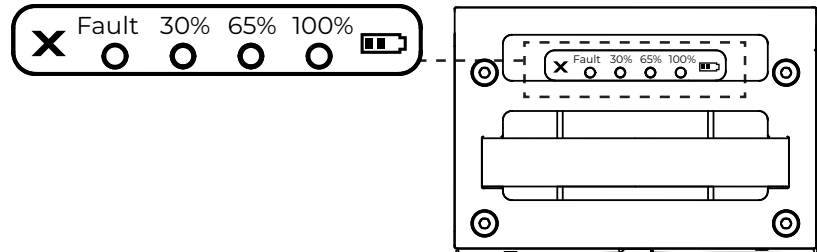
- 1 Secure
- 2 Twist (clockwise)
- 3 Push (down)



Battery Indicators

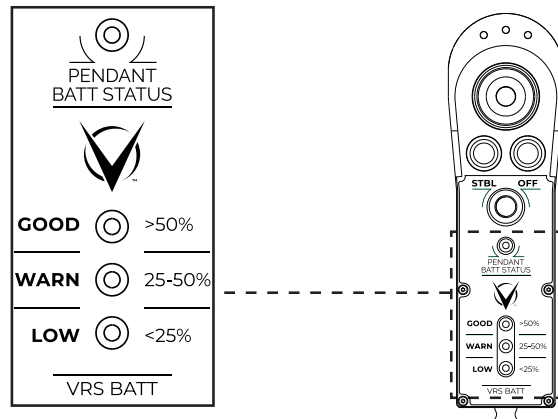
BATTERY INDICATORS

LED indicators located on the front of the battery display the charge of the battery.



PENDANT INDICATORS

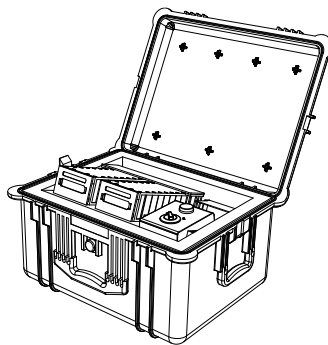
The wireless pendant also displays the charge of the batteries.



CHARGING

The charger is able to charge two batteries at a time. It takes 1 to 2 hours for batteries to completely charge.

The charger is enclosed within a pelican 1620 protector case.



Attachment Options

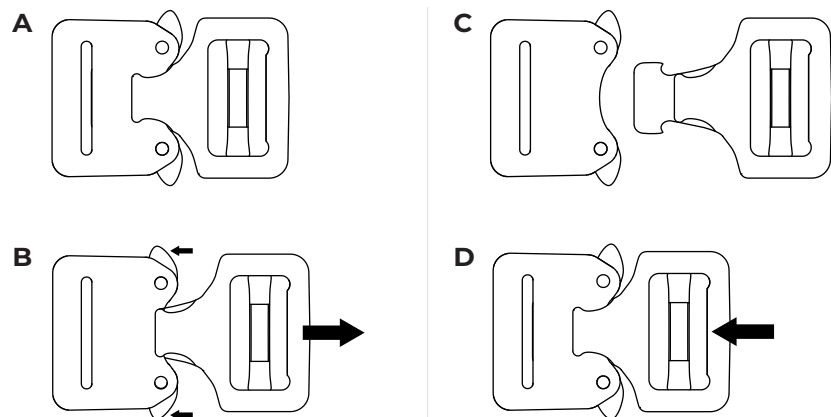
COMPATIBLE WITH MOST RESCUE KITS

The Vita Rescue system can attach to most rescue kits using the two cobra straps. In addition, each unit is equipped with clamps designed to secure a STOKES litter. Cobra straps may be used in combination with the clamps for the STOKES.

The following page demonstrates configurations with Skedco, rescue baskets, and STOKES litters.

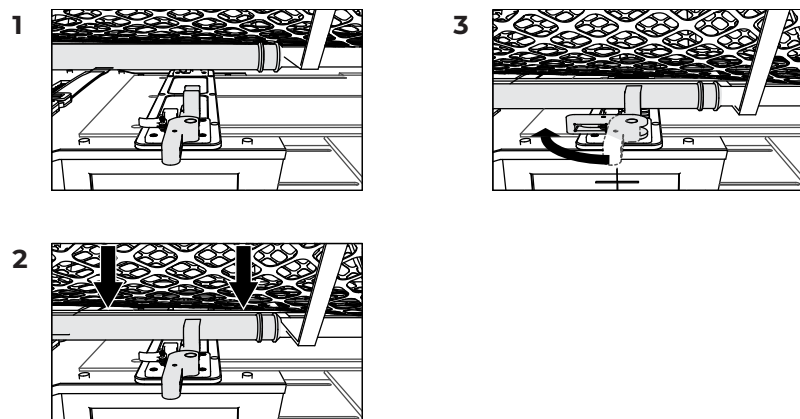
ATTACHMENT STRAPS

Diagrams A and B show how to open the buckles. Diagrams C and D show how to close them.



LITTER CLAMPS

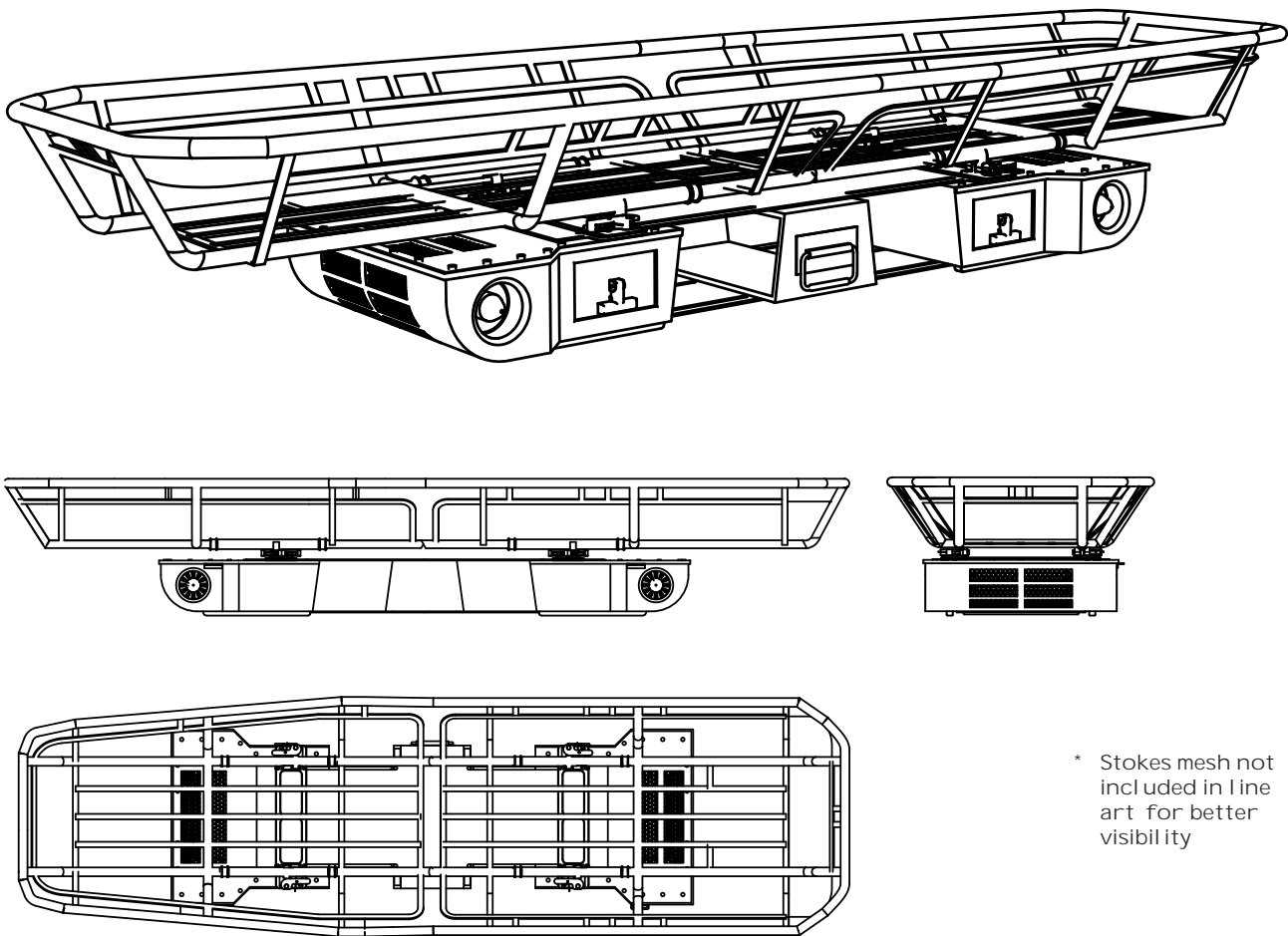
The litter clamps secure stokes litters to the system. Ensure the protective sleeves are placed on the stokes prior to securing the stokes to the system.



Stokes

Attachment:	Clamps and/or straps
Configuration:	Expanded

The stokes shown here is shown without the attachment straps, but the straps can be used in combination with the litter clamps.



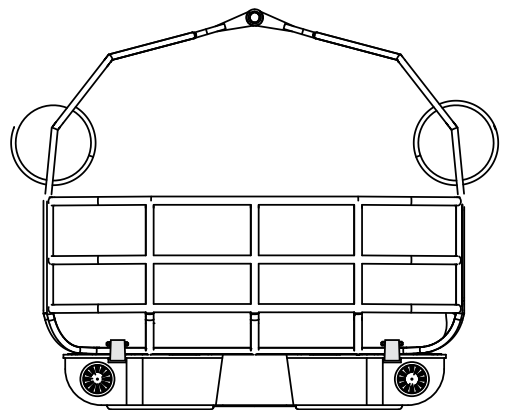
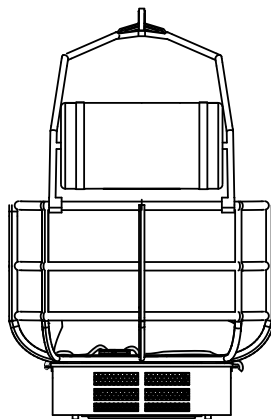
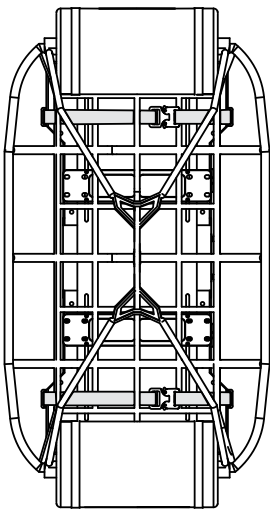
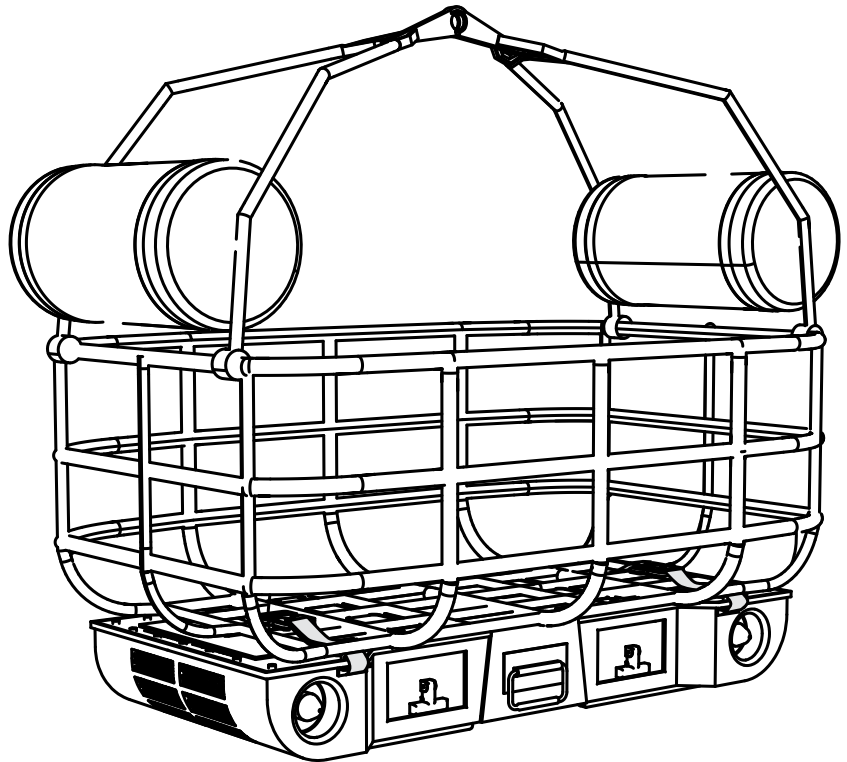
* Stokes mesh not included in line art for better visibility

Rescue Basket

Attachment: Straps

Configuration: Collapsed

Weave the straps through the rails underneath the basket to secure the basket to the system.

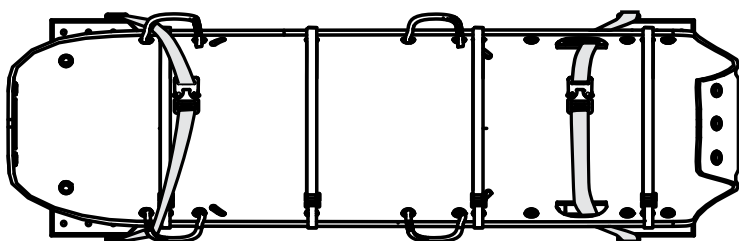
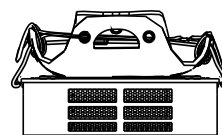
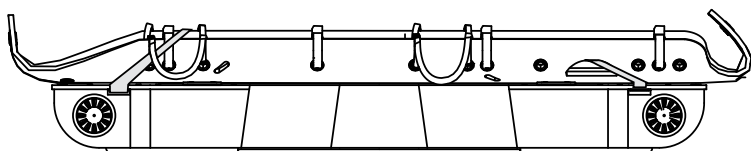
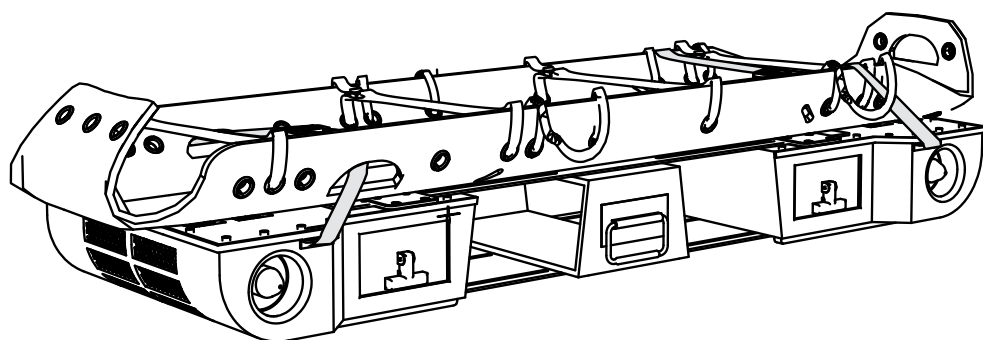


Skedco

Attachment:	Straps
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Configuration:	Expanded
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When securing the system to a Skedco, ensure that the attachment straps are threaded through a handle in the Skedco.



Rescue Bag

Attachment:	Straps
Configuration:	Expanded

Thread the attachment straps through loops on the rescue bag.

