

**Suitable For
Special Forces
of Police
Para-Military
Defence**

The VerTmax is a family of light-weight pneumatically-extending telescopic poles designed to deliver a grappling hook and ascending ladder for use in urban entry boarding operations. The extended length of the pole is controlled by the amount of compressed air released from the reservoir, making each VerTmax Telescopic Pole variable in height over the design length of the pole.

VerTmax

Pneumatically-Extending
Telescopic Pole with Integral
Tactical Ladder & Grappling
Hook

Applications

Tactical Access (Silent Operation)
Maritime / Urban Inspections
Rescue operations



VerTmax

MAXimum Stealth

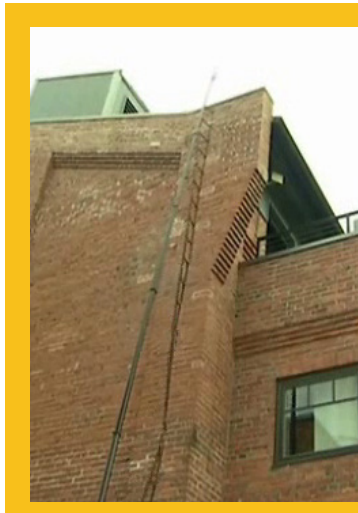
For use in acoustically covert operations, the VerTmax Telescopic Pole Assembly extends silently, the ladder is made of 'quiet' materials, and the hook's covering reduces the sound signature at target. The VerTmax has a low magnetic signature for sub-surface dive team operations.

MAXimum Performance

Within seconds a single user can fully extend the VerTmax pole with an integrated hook and ladder to the attachment point. Poles are buoyant when extended allowing for later collection by a recovery team in dive team operations. Multiple lifts can be made from a charged reservoir.

MAXimum Versatility

The VerTmax offers a variety of hook designs and has an infinite working length within the overall operating range of the pole segments. The accessory attachment can also be adapted for deployment of antennae or wireless camera.



Problem

To execute a covert/tactical operation by boarding a high rise building from outside, the force uses conventional solution which puts them at high risk.

This risks the lives of our brave soldiers during combat situation and alert the intruder sitting inside enable them to take offensive action, which can put the mission at stake.

Telescopic Pole Assembly

Fabricated from 6061-T6 aluminum alloy with black anodized finish to protect from the elements, providing the best strength-to-weight ratio. Once attached to the System Reservoir, the Telescopic Pole Assy extends lifting an assortment of accessories to a desired height.

System Reservoir

Made from Heat-Treated 6061-T6 Aluminum alloy and finished with a black powder coat, the service pressure is 2,000 psi/ 140 BAR. One charge of air can lift the pole assembly multiple times.

Reservoir Safety

A spring-loaded safety latch prevents accidental activation of the system.

Telescopic Pole Sleeve

Made of Cordura Fabric and equipped with a convenient carry handle, the sleeve provides protection for the Telescopic Pole Assembly and allows for easy transport.

Kit Bag

Made of Cordura fabric and equipped with storage pockets, the Kit Bag transports all the VerTmax accessories and can be carried by hand or over the shoulders.

Reservoir Alignment Pins

Spring-loaded stainless steel pins align and secure the Telescopic Pole Assembly to the System Reservoir.



Solution

The VerTmax is a pneumatically extending telescopic pole with integral tactical ladder and grappling hook and a silent tool for boarding a high rise building from outside in a combat/covert operation.

This supports our brave soldiers in completing mission successfully.



Accessory Attachment

A range of accessories can be attached to the tip of the VerTmax Pole, including a grappling hook, antenna, or wireless camera.



Quick Connect/ Disconnect Fittings

Used to easily and quickly connect/disconnect the Streamline Filler Hose Assembly to/from the compressed air source. Different fittings are available for interface with each of DIN, SCBA, SCUBA.

Grappling Hooks

Made from 6AL-4V Grade 5 Titanium and dipped in an EFEX Sound Signature Reducer, these hooks silently attach to a variety of targets, including ledges, window sills, parapets, pipes, and railings. All hooks come complete with a Contact Release Mechanism to disengage the hook from the tip of the pole once the hook has engaged with its target. Custom Hooks available upon request.



6.5" Pipe Style

Designed to attach to pipes and railings.



9.5" Ledger Style Hook

Designed to fit more narrow ledges and parapets.



14.5" Ledger Style

Engineered to fit wider ledges and parapets.



Optional Rollers

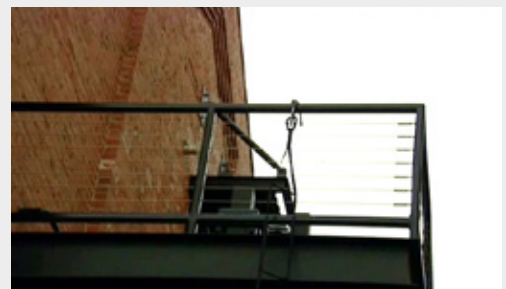
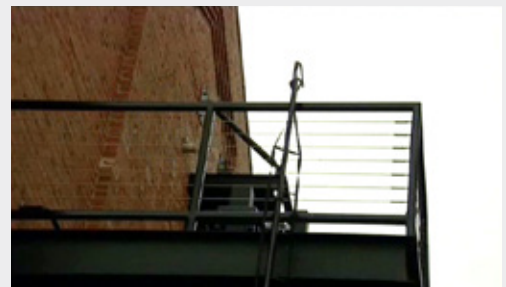
Optional removable rollers are available to assist in navigating up wall faces or the hulls of ships.



Tactical Ascending Ladder

Lightweight, durable, and acoustically covert. Constructed of nylon webbing with fiberglass rungs at 12in/ 30 cm o.c., Side members have a combined breaking strength of 4,800lbs/ 2,180kg. Rungs are clad in a non-slip neoprene sheath.

Simple & Easy To Deploy



Technical Specifications

VerTmax Telescopic Pole Assembly

Pole Length	Maximum Diameter		Pole & Fittings Material		Finish	Bleed Valve Plug
	All Length	2.5	6.4	6061-T6 Aircraft Aluminium		Black Anodised
Pole Length	Collapsed Length		Weight		Fully Loaded (pole, reservoir, ledger hook, ladder)	
	ft	m	lbs	kgs	lbs	kgs
9m / 30ft	6.0	1.8	16.4	7.5	33.2	15.1
12m / 40ft	7.3	2.2	20.5	9.6	38.4	17.5
15m / 50ft	8.7	2.7	24.7	11.2	43.8	19.9

Tactical Ascending Ladder

Pole Length	Width		Rung Spacing		Minimum Break Load		Rung Material	Side Member Material
	in	cm	in	cm	lbs	kgs		
All Length	6.0	15.2	12.0	30.5	4,800	2,180	Fiberglass	Nylon
Pole Length	Length of Ladder			Weight per Length				
	ft	m		lbs	kgs			
9m / 30ft	30			9	3.6	1.6		
12m / 40ft	40			12	4.7	2.1		
15m / 50ft	50			15	5.9	2.7		

Grappling Hook

Style	Material	Finish	Minimum Break Load		Safe Working Load	
			lbs	kgs	lbs	kgs
All Style	Heat Treated 6AL-4Y Grade 5 Titanium	Mill	2,200	1,000	730	330
Style			Height	Width (Maximum)		Weight
	in	cm	in	cm	lbs	kgs
6.5" Pipe Style	12.0	30.5	3.25	8.26	1.2	0.5
9.5" Ledger Style	12.75	32.4	8.0	20.3	2.1	0.9
14.5' Ledger Style	13.0	33.0	8.0	20.3	2.5	1.1

Telescopic Pole Sleeve

Pole Length	Length		Weight	
	ft	m	lbs	kgs
9m / 30ft	6.2	1.9	1.0	0.5
12m / 40ft	7.3	2.2	1.2	0.5
15m / 50ft	9.0	2.7	1.4	0.6

Kit Bag

Specifications	Measurement
Material - Body	1,000 D Cordura
Material - Base	1680 Ballastic Nylon
Material - Handles	Nylon
Finish	Black
Length	40.0 in / 101.6 cm
Width	13.0 in / 33.0 cm
Height	13.5 in / 34.3 cm
Weight	3.1 lbs / 1.4 kg

Filler Hose Assembly

Specifications	Measurement
Overall Length	42 in / 106.7 cm
Hose Diameter	0.5 in / 1.3 cm
Total Weight	1.6 lbs / 0.7 kg
Hose Material	Nylon & Aramid Fiber
Hose Finish	Black Urethane
Overall Service Rating	5000 psi / 345 bar
Filler Block Material	6061-T6 Aluminium
Filler Block Finish	Black Anodized
Bleed Screw	Stainless Steel & Nylon
Adapter (DIN, SCBA, SCUBA)	Stainless Steel

System Reservoir Assembly

Specifications	Measurement
Length	35.75 in / 90.81 cm
Diameter	2.875 in / 7.3 cm
Weight	9.1 lbs / 4.1 kg
Material	6061-T6 Aircraft Aluminium
Service Pressure	2,000 psi / 140 bar
Reservoir Finish	Black Powder Coated
R-Valve	Stainless Steel
R-Valve Finish	Black Oxide

Line Container

Specifications	Measurement
Length (Max.)	17.92 in / 45.52 cm
Diameter (Max.)	7.00 in / 17.38 cm
Width (Max.)	9.00 in / 22.86 cm
Shape	Irregular
Weight	1.8 lbs / 0.8 kg
Container Material	Polyethylene
Container Finish	Black
Hinges	Stainless Steel
Ladder Container Brackets	Aluminium
Bracket Finish	Black Anodized

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