

Marine Applications

Application Areas

- Method of Entry
- Ship Boarding
- Tactical Line Deployment

Probable User

- Indian Navy
- Indian Coast Guard
- Marine Police
- Indian Customs



ALM *Assault Launcher Max*

Lightest-Weight, Longest-distance, Non-Pyrotechnic Launcher in the world

“ALM” is the new generation high performance line throwing appliance specifically designed to deploy a line only, a grappling hook and climbing line, or a grappling hook and ascending ladder to an otherwise inaccessible point in both land-based and surface and subsurface maritime environments.

Features

- Utilizing an air-thrust technology, the ALM is non-pyrotechnic, reusable and re-fillable.
- Launcher assembly housing are cast from 356-T6 Aluminum for best weight/strength ratio.
- Aluminum projectile with service pressure of 3000 psi / 207 bar or 4500 psi / 300 bar.
- Horizontal range: up to 850 ft / 259 m
- Vertical range with Grappling hook: up to 230 ft / 70 m
- Rope Diameters: 3.0 mm – 13.0 mm
- Handheld, Compact and Portable
- Ease of use & Accurate aiming



aska[®]
ASKA EQUIPMENTS LTD.

ALM *Assault Launcher Max*

Lightest-Weight, Longest-distance, Non-Pyrotechnic Launcher in the world

The ALM™ is the NEW Generation high performance line-throwing appliance specifically designed to deploy a line only, a grappling hook and climbing line, or a grappling hook and ascending ladder to an otherwise inaccessible point in both land-based and surface and subsurface maritime environments.

The Aluminum series is designed for rugged use in land-based application and may also be discharged when partially submerged in water. It is built to suit the missions of modern day Tactical & Special Forces units - for use in applications which may include severe exposure to marine environments, including submersion in seawater - such as sub-surface movements of divers, as well as for land-based and surface based maritime environments.

- Utilizing an air-thrust technology, the ALM is non-pyrotechnic, reusable, and refillable.
- Launcher assembly housings are cast from 356-T6 Aluminum for best weight/strength ratio. Housings have a lifetime guarantee over service life of equipment.
- 4500 psi / 300 Bar service pressure aluminum projectile.
- 3000 psi / 207 Bar service pressure aluminum projectile.

MAXimum Distance

The ALM is capable of deploying a 3,200lb test strength line horizontally up to 330 feet / 100 meters. The ALM can deploy a 7.0mm climbing line with Climbing Grappling Hook vertically up to 130 feet / 40 meters. A 50ft / 15m Ascending Ladder and Climbing Hook can be fully deployed by the ALM

MAXimum Safety

- The safety mechanism is 'always on', re-setting automatically when a projectile is inserted
- The projectile's "Push-Click" engagement allows easy reloading even in the dark
- A Pressure relief burst disk prevents unsafe pressure build-up that could result from exposure to extreme heat.
- Each launcher is fitted with a luminous pressure gauge for close visibility at night

MAXimum Performance

Multi-shot Capacity. Nozzle-valve permits any number of projectiles to be precharges and stored with the unit, allowing deployment of multiple projectiles in rapid succession.

MAXimum Ease of Use

The ALM Filler System is equipped at each end with a "quick connect" for an easy and safe connection to the projectile to be filled and to the compressed air source as well.

Line Projectile

The line projectile will deploy a variety of lines over a range of distances, depending on the service pressure and the type of line used.



"Pelican" Transport/Storage Case

An unbreakable, watertight, dust proof, chemical resistant and corrosion proof transport/storage case made of ultra impact-resistant structural copolymer.



High Pressure Projectile

The service pressure of the HP projectile is 4,500 psi. The additional volume and pressure results in about twice the range capability compared to standard line projectile.



Training Projectiles

These projectiles are designed for training or repeated use when deploying a line from the launch point to a hard surface such as 'ship-to-ship' line deployment. The protective cover is made of low-recoil urethane material, providing protection for the projectile and reducing projectile 'bounce' on arrival. Available in red or luminescent.

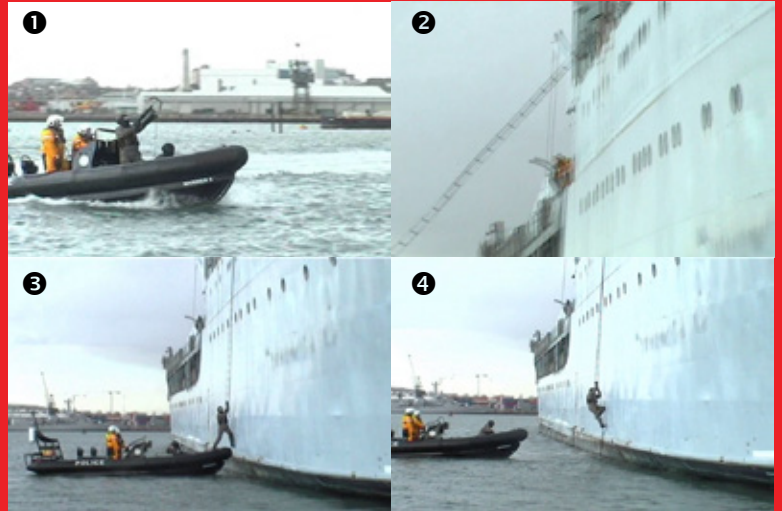


Problem

In the present scenario, boarding a high freeboard marine vessel at sea to execute the combat / covert mission to prevent anti-piracy, anti-smuggling, anti-terrorist activities effectively is a challenging task.

Solution

The ALM is the new generation high performance line-throwing appliance specifically designed to deploy a line / ladder to an otherwise inaccessible point and Sub-Surface maritime environments for boarding a ship for any combat / covert operation.



Folding Stock

A 12 in/30 cm folding stock is designed for greater accuracy of deployment and serves as a convenient carry handle in the collapsed position.



Launcher Barrel

Cast from 356-T6 Aluminium, the ALM Launcher Barrel offers ideal weight/strength ratio and features a safety mechanism to prevent accidental discharge.



Cordura Kit Carry Bag

Cordura fabric carry bag is designed for durability and convenience. Features 1 internal and 2 external zippered storage pockets and a reinforced water-resistant vinyl bottom.



Climbing Grappling Hook

This fixed hook with three non-barbed tines is fabricated from titanium. Hook tines are coated in polyethylene-based thermoplastic (EFEX) to reduce sound signature. This hook is certified for climbing.



ALM Tool Kit

A rugged case with molded inserts contains each of the tools required to service and repair an ALM kit.



Climbing Line

Standard Rope sizes come in diameters of 5.5, 7.0, 8.4, and 11 mm. All climbing lines are black and come packaged in a compact or large line container. End-user specified ropes with specific diameters are available upon request.



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, and SCUBA.



Grappling Hook with Barbed Tips

A titanium 3-pronged hook complete with barbed tips to ensure anchoring. Hook tines are coated in polyethylene-based thermoplastic (EFEX) to reduce sound signature.



Tactical Ladder

Lightweight, durable, and acoustically covert. Constructed of nylon webbing with fiberglass rungs at 12 in/30 cm o.c., this ladder is available in 50 ft/15m or 65 ft/20m lengths that can be fully deployed vertically. Side members have a combined breaking strength of 4,800 lbs/2,180 kg.

* Custom lengths available

Technical Specifications

ALM Launcher - Part #540

Specifications	Measurement	
Length (Folding Stock Closed)	16.8 in	42.5 cm
Length (Folding Stock Open)	28.7 in	72.9 cm
Height (Folding Stock Closed)	13.2 in	21.6 cm
Height (Folding Stock Open)	8.5 in	33.5 cm
Barrel Width	3.9 in	9.9 cm
Weight	4.4 lbs	2.0 kg
Launcher Housing	356-T6 Aluminium	
Color	Black	
Shape	Irregular	
Internal Mechanism	Stainless Steel	

Filler Hose Assembly - Part # 911-S; 912-S; 913-S

Specifications	Measurement	
Overall Length	42.8 in	108.8 cm
Hose Diameter	0.5 in	1.3 cm
Total Weight	2.2 lbs	1.0 kg
Overall Service Rating	5,000 psi	345 bar
Hose Material	Nylon and Aramid Fiber	
Hose Finish	Black Urethane	
Filler Block Material	6061-T6 Aluminum	
Filler Block Finish	Black Anodized	
Bleed Screw	Stainless Steel and Nylon	
Adapter (DIN, SCBA, SCUBA)	Stainless Steel	

Projectiles

Material	Part No.	Length		Diameter		Weight		Cover Material	Color
Standard Projectile	300-8	13.4 in	34 cm	2.375 in	8.03 cm	1.8 lbs	0.8 kg	Polyethylene	Black
Bling Projectile	301-8	23.5 in	58.7 cm	2.375 in	8.03 cm	2.8 lbs	1.3 kg	Polyethylene	Red
Training Projectile	305-8 308-8	13.7 in	34.8 cm	2.28 in	5.78 cm	1.8 lbs	0.8 kg	High Density Urethane	Red or Fluorescent

Grappling Hook

Material	Part No.	Length in / cm		Width in / cm	Minimum Break Load		Weight	
Heat Treated BAL-4V Grade 5Ti	750	12 in	30.5 cm	Irregular	2,200 lbs	1000 kg	1.5 lbs	0.7 kg

Tactical Ladder Options

Material	Part No.	Length in / cm		Width in / cm		Minimum Break Load		Weight	
Nylon with Fiberglass Runge	744	50ft	15m	6.0 in	15.2 cm	4,800 lbs	2,180 kg	5.8 lbs	2.8 kg
Nylon with Fiberglass Runge	748	65ft	20m	6.0 in	15.2m	4,800 lbs	2,180 kg	7.4 lbs	3.4kg

Rope Options

Material	Part No.	Diameter (mm)	Color	Minimum Break Load		Weight Per Length		Length	
				lbs	kg	lbs	kg	ft	m
HMPE & Nylon	801	7	Black	5,780	2622	4.3	2.0	165	50
HMPE & Nylon	802	5.5	Black	3200	1194	5.2	2.6	330	100
Spectra	803L	4	White	1500	680	3.5	1.6	1000	304
Nylon	815	8.4	Black	3442	1565	7.7	3.5	230	70
Nylon	817	11	Black	6744	3059	8.3	3.8	165	50

Bags & Cases

Material	Part No.	Length in / cm		Width in / cm		Height in / cm		Weight lbs / kg	
Kit Bag	908	28	70	14	35	16	41	2.3	1.0
Pelican Case - Small	908	31.59	80.2	20.47	52	12.45	31.6	29.3	13.3
Pelican Case - Large	909	31.59	80.2	22.99	58.4	19.48	49.5	37.7	17.1

aska®

Aska Equipments Ltd.

In Association With



R-482, New Rajendra Nagar, Ganga Ram Hospital Square, Shankar Road, New Delhi -110060

Tel. : +91-11-49458800 (30 lines)
Fax: +91-11-49458844

Email: info@askagroup.com
website: www.askagroup.com

Sales & Service Centers

MUMBAI - HYDERABAD - LUCKNOW - AHMEDABAD - NAGPUR - KOLKATA - DHANBAD - CHENNAI - BANGALORE - CHANDIGARH - JAMMU - GUWAHATI - COIMBATORE