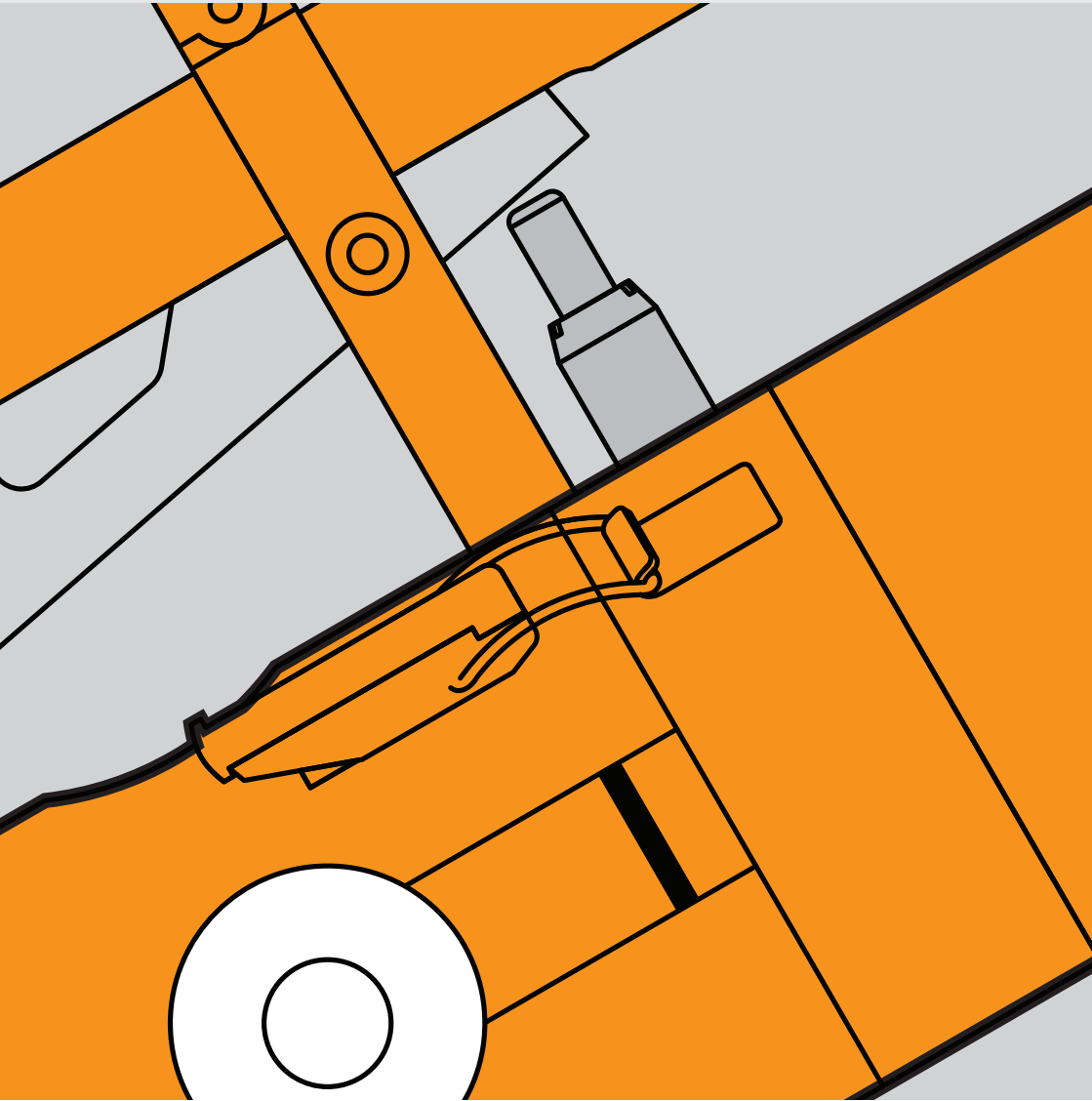


PLT[®] PNEUMATIC LINE THROWERS



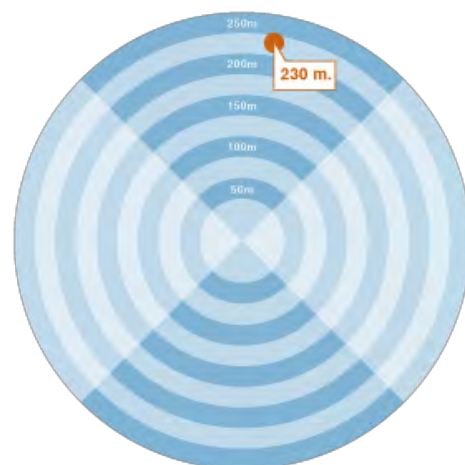
PLT® R 230 Complete



The PLT R 230 complies with IMO SOLAS 74 regulation. It is a non-dangerous Line Throwing Apparatus with no expiry date.



Article 1005	PLT® Launching Unit	1
	1 Air Cylinder, 300bars/4350psi	
	1 Launching Unit	
	1 Cover for air cylinder	
Article 1303	Launching Tube Rescue 230	1
Article 2101	Projectile Rescue 230	4
	Typical shooting range with a dry and clean line of 3,2mm (Art No 2103): 230m. Breaking strength: 2000N	
Article 2200	Loading Device	1
Article 3303	Launching Tube 150	1
Article 7004	Projectile PLT® 150	1
Article 6201	Linebox 5mm floating line	1
	Linebox containing line art no 6109, polypropylene (120m). Breaking strength 3432N (350kg). Floats and has a very bright yellow color.	
.	User Manual and USB stick included	



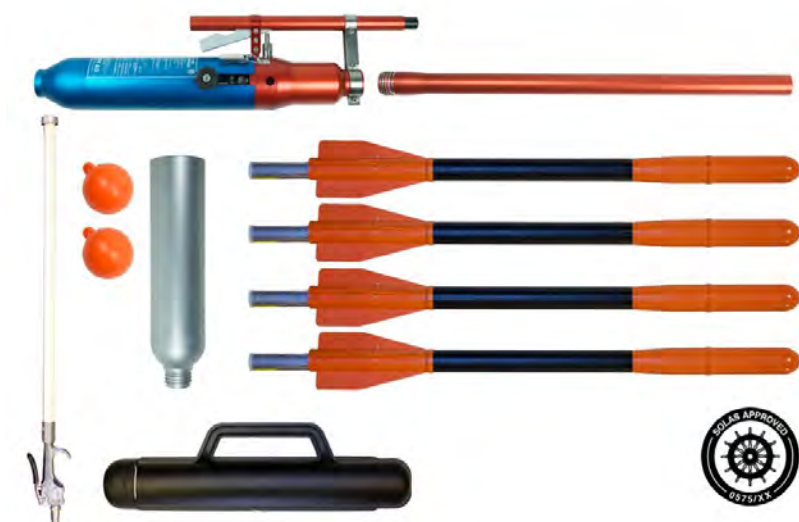
NO EXPIRY DATE

The PLT R 230 holds the following certificates:

- DNV GL – MED B and Type Approval
- DG Shipping – Approval
- CCS - Approval
- US Coast Guard - Approval
- Transport Canada - Approval



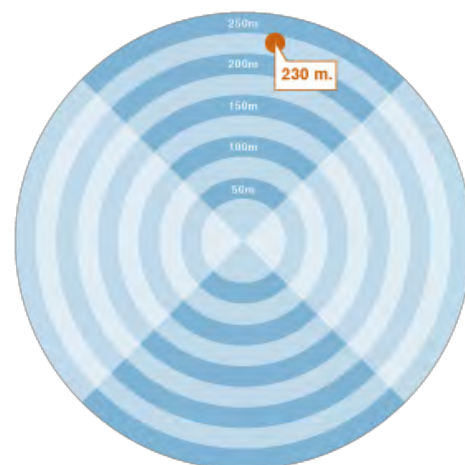
PLT® R 230



The PLT R 230 is the only Solas approved non dangerous Line Throwing Apparatus

Can also comply with US/CAN transport regulations on request.

Article 1005	PLT® Launching Unit	1
	1 Air Cylinder, 300bars/4350psi or 200bars/2900psi	
	1 Launching Unit	
	1 Cover for air cylinder	
Article 1303	Launching Tube Rescue 230	1
Article 2101	Projectile Rescue 230	4
	Typical shooting range with a dry and clean line of 3,2mm (Art No 2103): 230m. Breaking strength: 2000N	
Article 2200	Loading Device	1
Article 6303	Launching Tube PL T 75	1
Article 6101	Projectile Ball	2
Article 6201	Linebox 5mm floating line	1
	Linebox containing line art no 6109, polypropylene (120m). Breaking strength 350kg. Floats and has a very bright yellow color.	
.	User Manual and USB stick included	



Operations

The PLT Rescue 230 meets the IMO Solas regulation 74. You can launch 6 times without refilling the air cylinder. The minimum launching distance is 230 meters.

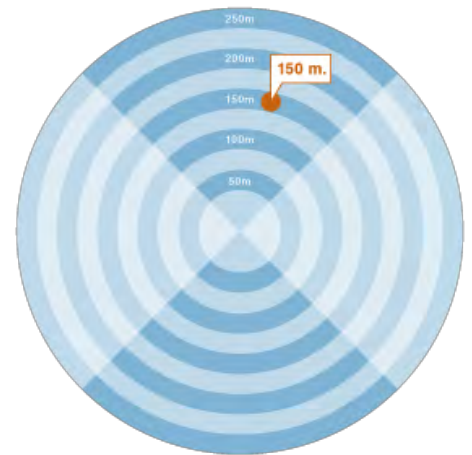
Due to its high precision, the PLT R 230 is also used on FPSO/FSO for long range line transfer during loading operations. This provides a safety zone up to 160 meters. All parts are re-useable



PLT Rescue 150



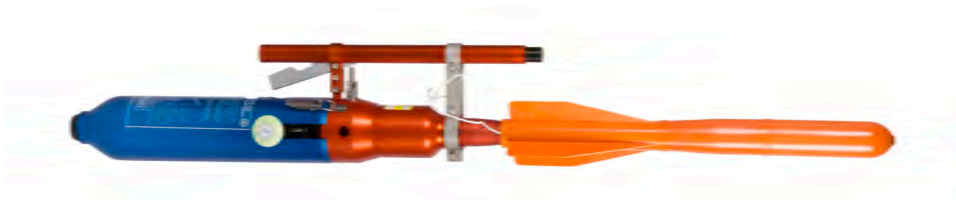
Most commonly used for medium-ranged rescue or line transfer operations.



Article 1005	PLT® Launching Unit	1
1 Air Cylinder, 300bars/4350psi or 200bars/2900psi 1 Launching Unit. 1 Cover for air cylinder		
Article 3303	150 Launching Tube	1
Article 3101	R 150 Projectile	2
Typical shooting range with a dry and clean line of 3,2mm is 150 meters. Breaking strength is 200kg		
Article 3200	Loading Device	1
Article 7004	Projectile PLT® 150	1
Article 6201	Linebox5mm floating line	1
Linebox containing line art no 6109, polypropylene (120m). Floats and has a very bright yellow color. Breaking strength 350kg		
User Manual and USB stick included		

Operations

Ideal for quick response operations for standby or rescue vessels that uses the PLT Launching unit. The line is stored inside the projectile and ready to launch right away in an emergency situation. The projectile reaches 150 meters.

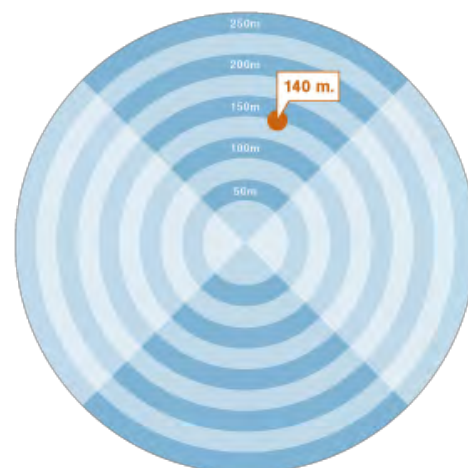




Medium range mooring operations
Rescue operations

Can also comply with US/CAN
transport regulations on request.

Article 1005	PLT Launching Unit	1
	1 Air Cylinder, 300bars/4350psi or 200bars/2900psi	
	1 Launching Unit	
	1 Cover for air cylinder	
Article 3303	Launching Tube 125/150	1
Article 7004	Projectile PL T 150	2
	Typical shooting range with a dry and clean line with 3,2mm (Art No 2103): 140m	
Article 5202	Linebox 3,2mm nylon	1
	Linebox containing 150m (164 yd) of 3,2mm (0.13 in) (Art No 2103) of line. Used for maximum range for projectile Art no 7004. Breaking strength : 200kg	
	Other options of line on request	
	User Manual and USB Stick included	



Operations

The rubber tipped projectile reaches 140 meters and pulls the line after itself. It is commonly used for medium range mooring operations and general line transfer. Depending on your line requirements the launching distance will vary.

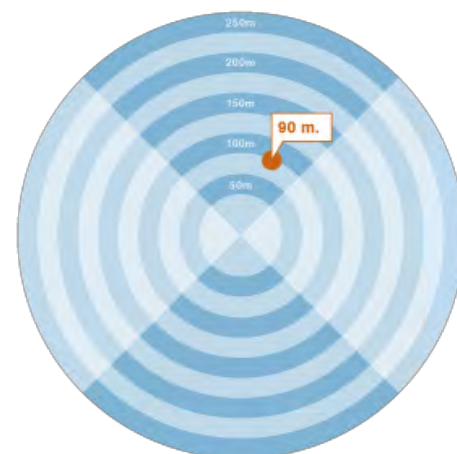




Medium range mooring operations
Emergency Towing Arrangements
Rescue operations

Can also comply with US/CAN
transport regulations on request.

Article 1005	PLT Launching Unit	1
	1 Air Cylinder, 300bars/4350psi or 200bars/2900psi	
	1 Launching Unit	
	1 Cover for air cylinder	
Article 6303	Launching Tube PL T 75	1
Article 6101	Projectile Ball	2
	Typical shooting range with a dry and clean line with 5mm (art no. 6109): 90m	
Article 6201	Line box 5mm floating line	1
	Line box containing line art no 6109, polypropylene (120m). Floats and has a very bright yellow color. Breaking strength 350kg	
	Other options of line on request User Manual and USB stick included	



Operations

Launches an orange rubber ball that pulls a 5mm bright yellow floating line up to 90 meters. The ball can land on deck and it is filled with water in order to avoid bouncing.

The PLT 75 increases your safety zone for your equipment and personnel. It is commonly used in towing, vessel to vessel and general line transfer operations.



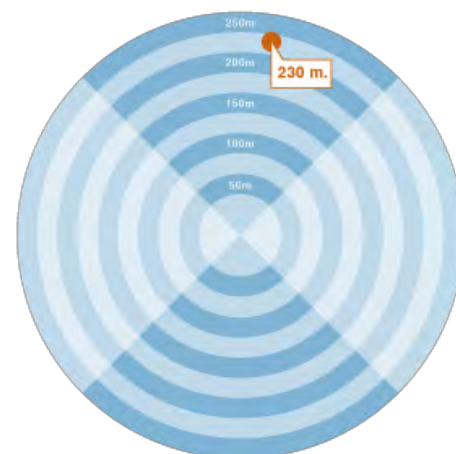
PLT[®] Anti-Piracy



The PLT Anti-Piracy set can distribute up to six Projectiles into the sea. The minimum launching distance is 240 meters.

Can also comply with IMO SOLAS 74 regulations by adding a PLT SOLAS Upgrade set.

Article 1005	PLT[®] Launching Unit	1
	1 Air Cylinder, 300bars/4350psi	
	1 Launching Unit	
	1 Cover for air cylinder	
Article 1303	Launching Tube Rescue 230	1
Article 2109	Projectile Anti Pirate	6
	Typical launch distance with a dry and clean line is: 240m. Holds 290 meters of P-Trap line, manufactured and tested by Maritime Safety Alliance.	
.	User Manual and USB stick included	



Operations

The PLT Anti-Piracy set can be upgraded with 7 types of projectiles to meet various requirements. Please contact your dealer or Restech Norway AS to learn more about the possibilities.

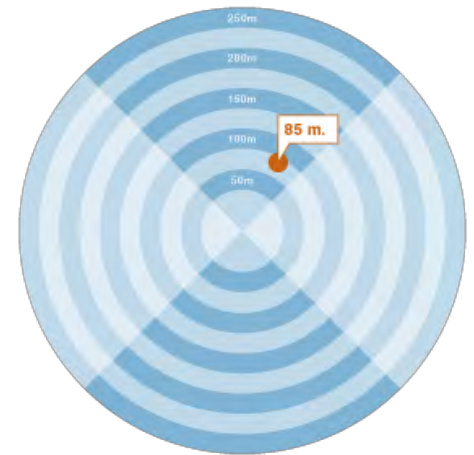


PLT[®] Line Retrieval



Anchor Handling
Emergency Towing
Bunkering Operations

Can also comply with US/CAN
transport regulations on request.



Article 1005	PLT Launching Unit	1
	1 Air Cylinder, 300bars/4350psi or 200bars/2900psi	
	1 Launching Unit	
	1 Cover for air cylinder	
Article 3303	Launching Tube 125/150	1
Article 7002	PLT Line Pick-up Grapple	1
Article 6203	Line box 5mm HMPE	1
	Linebox containing Line 5mm Braided Dyneema, Art No 6103. 100/120m. Floats and has very little elongation under stress.	
	Breaking strength of the line: 19613N (2000kg).	
	Other options of line on request	
	User Manual and USB stick included	

Operations

The PLT is used by Anchor Handlers to safely and effectively grab the anchor buoy softline. This is done by having a secondary small buoy attached to the free end of the softline.

You can launch the Line Pick-up Grapple up to 85 meters from a safe and elevated spot on your vessel.

PLT[®] Launching Unit



No explosives
No expiry date
High precision

Article 1306	Air Cylinder	1
200 or 300 bars (2900/4350psi).		
Article 1000	Launching Unit	1
Article 1017	Cover for air cylinder	1

The launching unit contains an air cylinder for filling of compressed air up to 200/300 bars (2900/4350psi). This is sufficient for 4/6 launches before refilling is necessary. The air cylinder is fitted with standard fittings for diving and BA-equipment for filling of dry and clean air from a high-pressure compressor.

- Launching distances up to 250m
- 4-6 multiple launches
- Can comply with IMO/SOLAS regulation 74/83
- 6 types of projectiles



Pivot Support

Due to the heavy recoil it is necessary to have a good support for the PLT.

We recommend using the Pivot Support. A steel tube can be welded or clamped at the launching areas (rail, i.e.).

In rough seas the Pivot will help personnel to keep balance and focus on aiming.



Solas Upgrade



The PLT Rescue 230 meets the IMO Solas regulation 74. You can launch 4-6 times without refilling the air cylinder. The minimum launching distance is 230 meters.

Article 1303	Launching Tube Rescue 230	1
Article 2101	Projectile Rescue 230	4
Typical shooting range with a dry and clean line of 3,2mm (Art No 2103): 230m. Breaking strength: 2000N		



NO EXPIRY DATE

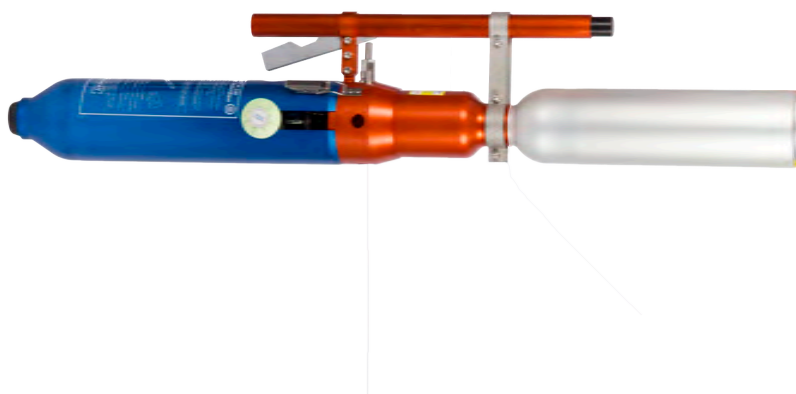
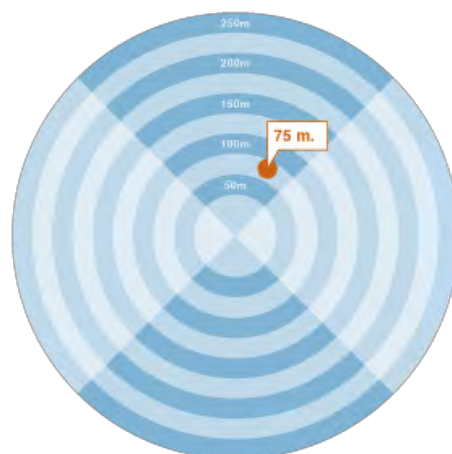
If you already have a PLT Launching unit, you can upgrade to also cover Solas regulations 74. The set has no expiry date and is non-dangerous. Holds MED B, USCG, TC, DG and CCS approvals.

75 Upgrade



Medium range Line Transfer
Emergency Towing Arrangements
Rescue operations

Article 6303	Launching Tube PL T 75	1
Article 6101	Projectile Ball	2
Typical shooting range with a dry and clean line with 5mm (art no. 6109): 90m		
Article 6201	Line box 5mm floating line	1
Line box containing line art no 6109, polypropylene (120m). Breaking strength 440kg. Floats and has a very bright yellow color. Breaking strength: 440kg.		



Operations

Launches an orange rubber ball that pulls a 5mm bright yellow floating line up to 90 meters. The ball can land on deck and it is filled with a liquid in order to avoid bouncing and freezing.

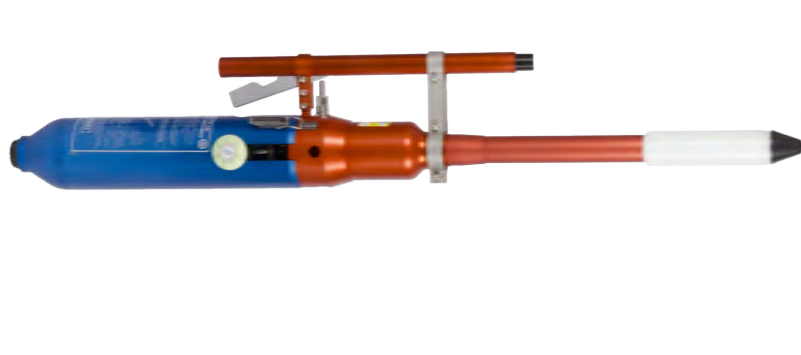
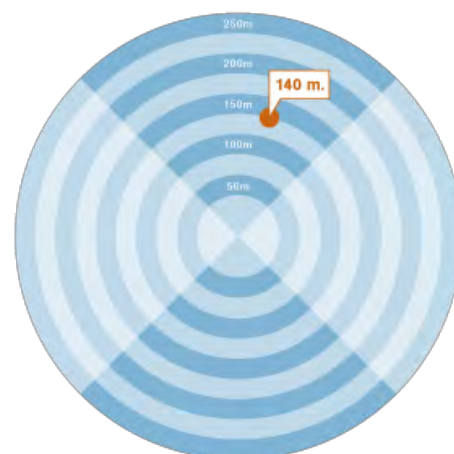
The PLT 75 increases your safety zone for your equipment and personnel. It is commonly used in towing, vessel to vessel and general line transfer operations.

150 Upgrade



Medium range line transfer and
Rescue operations

Article 3303	Launching Tube 125/150	1
Article 7004	Projectile PL T 150	2
Typical shooting range with a dry and clean line with 3,2mm (Art No 2103): 140m		
Article 5202	Linebox 3,2mm nylon	1
Linebox containing 150m (164 yd) of 3,2mm (0.13 in) (Art No 2103) of line. Used for maximum range for projectile Art no 7004. Breaking strength : 200kg		



Operations

The rubber tipped projectile reaches 140 meters and pulls the line after itself. It is commonly used for medium range mooring operations and general line transfer. Depending on your line requirements the launching distance will vary.

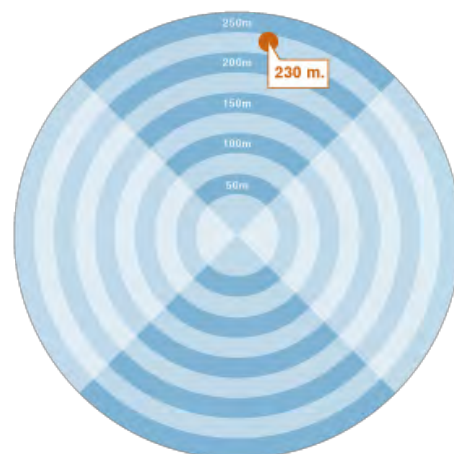
PLT[®] Anti-Piracy Upgrade



The PLT Anti-Piracy Upgrade set contains six projectiles with the special P-Trap Line, manufactured by Maritime Safety Alliance. The minimum launching distance is 240 meters.



Article 1303	Launching Tube Rescue 230	1
Article 2109	Projectile Anti Pirate	6
Typical launch distance with a dry and clean line is: 240m. Holds 290 meters of P-Trap line, manufactured and tested by Maritime Safety Alliance.		
User Manual and USB stick included		



Operations

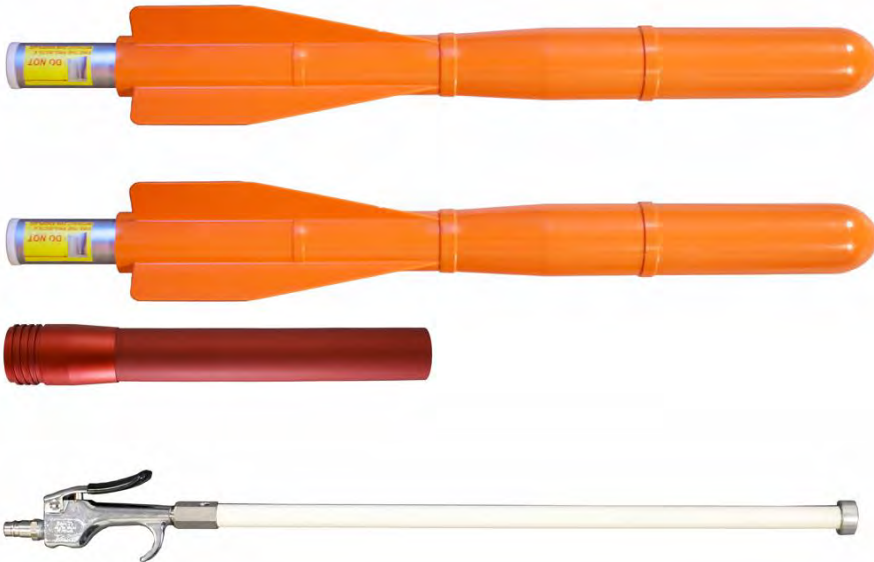
The PLT Multi can be upgraded with 7 types of projectiles to meet various requirements. Please contact your dealer or Restech Norway AS to learn more about the possibilities.



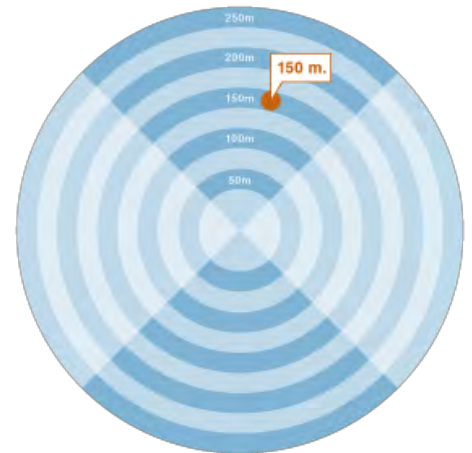
R 150 Upgrade



Medium range rescue operations



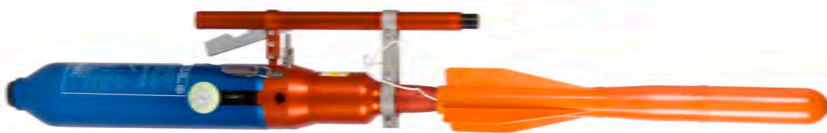
3101	R 150 Projectile	2
The line is stored inside the projectile. Made from ABS plastic and aluminum. Typical shooting range with a dry and clean line of 3,2mm is 150 meters. Breaking strength is 200kg		
3303	150 Launching Tube	1
3200	Loading Device	1
The Loading device is for reloading a clean and dry 3,2mm line back into the R 150 Projectile. Comes with couplings to fit compressed air systems of 5-10 bars (72-145psi).		



Operations

Ideal for quick response operations for standby or rescue vessels that use the PLT Launching unit.

The line is stored inside the projectile and ready to launch right away in an emergency situation. The projectile reaches 150 meters.



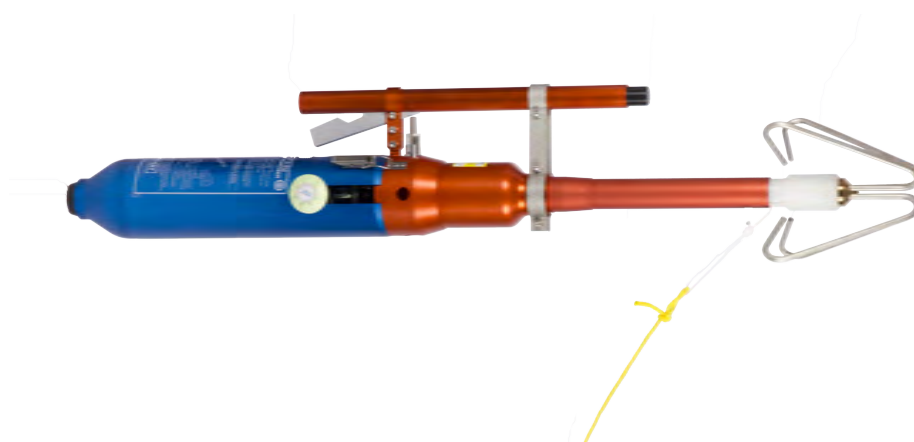
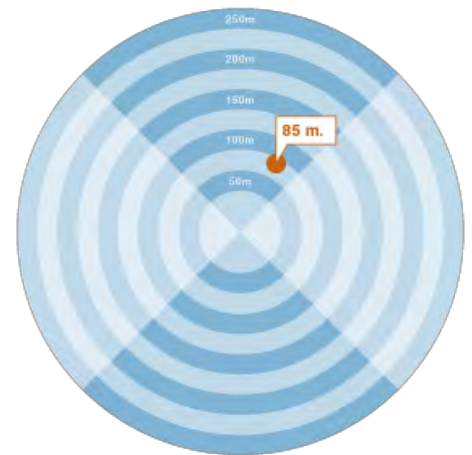
Line Retrieval Upgrade



Anchor Handling
Emergency Towing
Bunkering Operations



Article 3303	Launching Tube 125/150	1
Article 7002	PLT Line Pick-up Grapple	1
Article 6201	Line box 5mm floating line Line box containing line art no 6109, polypropylene (120m). Breaking strength 440kg. Floats and has a very bright yellow color. Breaking strength: 440kg.	1



Operations

The PLT is used by Anchor Handlers to safely and effectively grab the anchor buoy softline. This is done by having a secondary small buoy attached to the free end of the softline.

You can launch the Line Pick-up Grapple up to 85 meters from a safe and elevated spot on your vessel.

