



VIPER WIRE ROPE LUBRICATOR

Ship Lifter Application

**A SAFE, SIMPLE AND EFFECTIVE LUBRICATION SOLUTION FOR
SHIP LIFTER WIRE ROPES**

Viper WRL have designed a system to greatly increase the safety of operators and improve the overall effectiveness of the lubrication process.

SHIP LIFTER (SYNCROLIFT) LUBRICATION OVERVIEW

A Ship Lifter System uses a platform connected to multiple winches to raise and lower vessels out of the water.

Ship lifters range in size and can have from 12 to more than 80 winches. Each winch is fitted with a wire rope ranging in diameter from 30mm to over 50mm. Ship lifters are used throughout the world with the main manufacture being Syncrolift AS.

The ship lifter will have multiple wire ropes connecting the support platform to each of the winch drums. As the ropes are partially operating in salt water, it is important that they are effectively lubricated to provide the protection needed.

Traditionally completed by hand, the manual lubrication process can take several hundred man hours to complete, limiting operation of the lifter and is also not nearly as effective as using a modern, pressure lubricator system.

WHY CHOOSE THE VIPER WRL PACKAGE TO LUBRICATE YOUR SHIP LIFTER?

The Viper WRL system provides fast and effective cleaning and lubricating of wire ropes. Traditional manual lubrication methods will not see the lubricant reach the wire core and corrosion from contact with rain and sea water will most likely occur. The Viper seal is at the heart of Viper WRL System with its unique design assisting the lubricant to effectively penetrate into the core of the rope.

The Viper WRL system will protect the wire rope from corrosion thus extending its life and saves labour compared to manual lubrication with improved efficiency and safety.

- **Less Labour Required**
Cleans outer contamination from wire ropes and lubricates in one pass.
- **Less Down Time**
Less Labour Required - 2000m/hour of rope can be cleaned and lubricated.
- **No Waste**
No lubricant wastage, every gram goes onto the wire ropes.
- **Reduced Risk of Failure**
More effective lubrication of wire ropes
- **Easy to Use**
Viper WRL systems require no special skills and no tools to operate.



The Viper WRL Ship Lifter Solution consists of using individual Viper Kits or using one of our Special Multi Viper WRL Collar Solutions

HEALTH SAFETY ENVIRONMENT BENEFITS

The Viper WRL was developed with safety and the environment in mind. When used correctly the Viper WRL has several Health, Safety and Environment benefits.

- Every gram of grease goes on the rope
- Does not leak meaning no mess
- No wasted lubricant
- Light weight allows for safe application
- There is no direct contact with the lubricant
- The rope can be lubricated from a safe distance

CASE STUDY

EXAMPLE: In this scenario 54 separate winch wire ropes need to be lubricated.

Before Viper WRL

It typically takes 4 Personnel, 10 business days (8 hour days) to manually lubricate all 54 separate winch wire ropes

Total 320 hours x \$80.00 USD /hr =
\$25,600.00 per lubrication cycle

The Viper WRL Way

The Viper WRL solution involves lubricating multiple ropes at the same time, typically 8 ropes. 4 each side of the lifter.

All 54 separate winch wire ropes can be cleaned and lubricated in 7 cycle lifts or lowering of the Syncro Lifter. Full lubrication can take place in 8 hours with 4 personnel

Total 32 hours x 80.00 USD/hr =
\$2560.00 USD per Lubrication cycle.

SAVE - \$23,040 USD
/ lubrication cycle using the Viper WRL

The rope operational life is also increased and greatly extended and the risk to rope failure is dramatically reduced.



THE VIPER MINI OR MID CAN BE USED IN THIS APPLICATION

VIPER WRL MINI KIT INCLUSIONS

The Viper Wire Rope Lubricator is supplied as a complete package, with all of the components required to get you started. Simply order the kit and then select and order the seals to suit the rope size to be lubricated.

■ VIPER MINI MKII COLLAR

The Viper WRL MKII Collar is constructed from high-grade cast aluminium alloy with a robust corrosion resistant coating, completed with stainless steel hardware to outlast severe working environments.

■ VIPER MINI MKII LUBE PUMP, AIR CONTROL & LUBE SUPPLY HOSE

The Viper WRL MKII Lubricator Kit includes a 2.9kg, 50:1 high pressure pump. It comes complete with air-regulator and air isolation valve to enable better and safer operation. The grease pump comes complete with Drum Cover, Carry Handle, Follower Plate and 4m High Pressure Lubricant Delivery Hose.

■ RETAINING RATCHET STRAPS & SHACKLES

■ ROBUST ALUMINIUM STORAGE CASE



THE VIPER MINI OR MID CAN BE USED IN THIS APPLICATION

VIPER WRL MID KIT INCLUSIONS

■ VIPER MID HIGH STRENGTH, CAST ALUMINIUM COLLAR

The MKII Collar is constructed from high strength Aluminium Alloy, precision machined to tight specifications. The collar is completed with stainless steel hardware to provide maximum durability and corrosion protection. The unit is designed for ease of use having handles located on each half of the collar

■ HIGH VOLUME GREASE PUMP

The Viper Mid MK II kit includes a lubricant pump, built specifically for the Viper WRL. The unit delivers 4.5kg/min at up to 370 BAR.

■ AIR REGULATOR/MOISTURE TRAP WITH GAUGE AND ISOLATION VALVE

■ 4M HIGH PRESSURE 1/2" LUBE DELIVERY HOSE

■ HIGH PRESSURE LUBRICANT METERING VALVE

■ CLEAR LUBE DRAIN HOSE

■ RETAINING RATCHET STRAPS AND SHACKLES

■ ROBUST ALUMINIUM STORAGE CASE

■ CONVENIENT CARRY STRAP FOR COLLAR

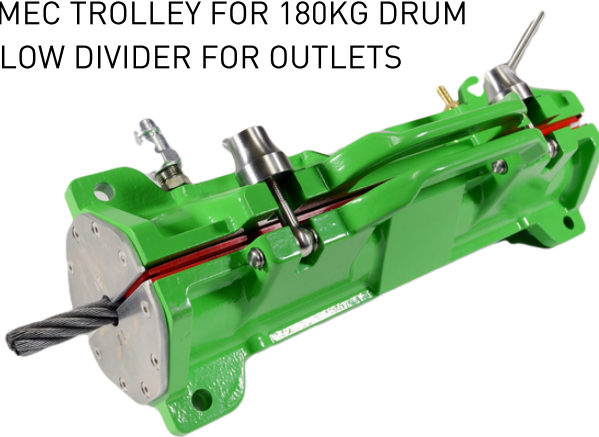


VIPER WRL SHIP LIFTER LUBRICATION MODULE

VIPER SHIP LIFTER LUBRICATIION MODULE INCLUSIONS

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- 4 x VIPER MID MKII COLLARS COMPLETE
The Viper WRL MKII Collar is constructed from high-grade cast aluminium alloy with a robust corrosion resistant coating, completed with stainless steel hardware to outlast severe working environments.
- VIPER MID MKII 180KG DRUM PUMP KIT 4.5KG/MIN
- LUBRICANT HIGH PRESSURE FLOW CONTROL VALVE
- 8 x 25mm / 2m HEAVY DUTY RACHET STRAPS
- 16 x BOW SHACKLES
- FILTER REGULATOR AND MINI BALL VALVE
- 2-METRE HOSE FROM THE PUMP TO 4-WAY GEAR FLOW DIVIDER
- 4 x 15 METRE HOSES FROM 4-WAY VALVE TO VIPER COLLARS
- FLEXBIMEC TROLLEY FOR 180KG DRUM
- GEAR FLOW DIVIDER FOR OUTLETS



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