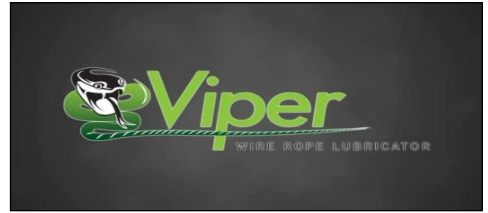




Viper Mark II Collar



INTRODUCING **VIPER** Mark II WIRE ROPE LUBRICATOR

(WITH CLAREGUARD GRL WIRE ROPE LUBRICANT)

The new **Viper Mark II** Wire Rope Lubricator provides fast and effective lubrication of wire ropes from 5/15" (8mm) to 2-5/8" (67mm) in diameter, at speeds of up to 2,000 metres per hour. It eliminates the slow and labour intensive task of manual lubrication, at the same time achieving more thorough results by forcing quality Clareguard GRL lubricant under high pressure right through the core of the wire rope.



Benefits:

- **Fast & Efficient Wire Rope Lubrication**
With speeds of up to 2,000 m/hr, it simplifies and speeds up the rope lubrication process in a single -pass only.
- **Protects Wire Rope Against Corrosion**
Excellent lubrication of wire strands both internally and externally.
- **Eliminates Manual Greasing**
Safe to operate, reduces lubricant usage, less leakage & mess.
- **High Pressure / High Flow Grease Pump**
Optimises grease penetration, displaces moisture from rope core.
- **Lubricates A Wide Range Of Wire Rope Sizes**
from 8mm to 67mm (67mm to 110mm available upon request).

Authorized Distributor for:



Viper Mark II Kit Components

- Viper Mark II High Strength Collar
- Viper High Volume Grease Pump
- 1 Pair of Polyurethane Seals
- 1 Set of Four Aluminium Scraper Plates
- Air Regulator with Gauge & Isolation Valve
- 4m High Pressure 1/2" Lubricant Delivery Hose
- 1 Clear Lubricant Drain Hose (for excess lubricant)
- Retaining Ratchet Straps & Shackles
- Convenient Carry Strap (for Collar)
- Aluminum Storage Case
- Groove Cleaner (Optional)



Viper Mark II Collar

The “new” Mark II Collar is the heart of the VIPER wire rope lubricator system.

Constructed from high-grade cast-aluminum with a robust protective coating, the collar is complete with stainless steel hardware to provide maximum corrosion protection.



The Mark II Collar is 32% lighter than its original, and comes complete with inbuilt handles, making it easy to be carried and fitted to the rope by one person.

Grease Pump

This high pressure 45:1 Grease Pump delivers lubricants at up to 5Kg per minute and pressure of up to 5,500 psi.

The kit comes with a Drum Cover, Carry Handle, Follower Plate and 4m high pressure Lubricant Delivery Hose.



Seals

The seals are made from polyurethane material which is extremely durable and wear resistant, while at the same time being flexible to achieve excellent sealing under pressure.

The seals come in pairs to suit each individual rope size and are identical so they can be reversed if one end becomes worn out.



Scraper Plates

Aluminium scraper plates are fixed to the end of the wire rope lubricator collar to pre-clean dirty wire ropes and also to protect the seal from broken strands by flattening loose wires.



Clareguard GRL Lubricant



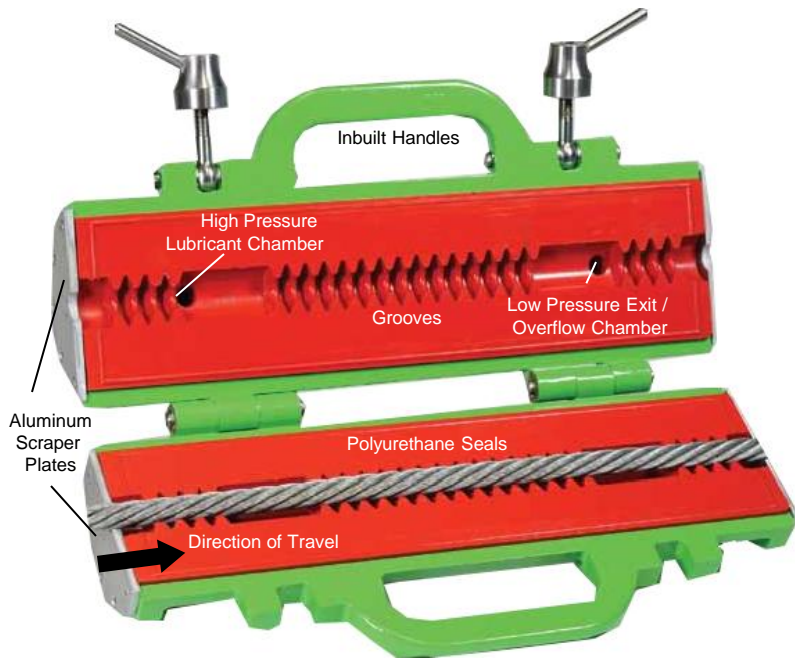
Clareguard GRL is a lubricating grease specifically developed for the lubrication of wire ropes operating under adverse conditions.

It displays pseudo-plastic properties so that it retains a grease consistency when static but thins on shearing. This allows ease of application and penetration into the wire rope.

Authorized Distributor for:



VIPER MARK II TECHNOLOGY



- Grease is delivered to the aluminum collar via a high pressure grease pump at pressure up to **5,500 psi**.
- Cast-aluminum collar contains **Polyurethane seals** with multiple **grooves** that allow lubricant (Clareguard GRL) to penetrate to the wire rope core.
- **Aluminum scraper plates** at each end of the collar remove old lubricant, flatten broken wires and protect seals.
- Wire rope lubricant application is adjusted via air control valve (operating pressure 80psi 120psi) which adjusts lubricant pump speed.
- Wire ropes are pulled through the collar and excess lubricant is returned to drum (via a clear drain hose).

ITEM CODE	DESCRIPTION	DIAMETER OF WIRE ROPE
VPRMKII	Viper Mark II Wire Rope Lubricator Kit (exclude seals & scraper plates. Each sold separately)	8mm – 67mm
MAXIVPR	MAXI Viper Wire Rope Lubricator Kit (exclude seals & scraper plates. Each sold separately)	8mm – 110mm
VSEAL##	Polyurethane Seals for Viper Kit, per pair (please refer to Seals Selection Chart)	Seal size based on wire rope size.
VSC##	Scraper Plates for Viper Kit, set of 4 pcs (please refer to Scraper Plates Selection Chart)	Scraper plates size based on on wire rope size

Results* after Viper Lubrication



Clareguard GRL coating seen in a cross-section cut of wire rope (centre of wire rope spool).

Thick and uniform Clareguard GRL seen coated on wire rope. It does not drip onto the ground despite light drizzling.

1st bloom of a 6-strand IWRC rotational wire rope. Each strand is evenly coated with Clareguard GRL lubricant.

2nd bloom of individual wire rope strand. Clareguard GRL can be seen on every wire rope strand.

* Results are based on new wire rope lubrication with a standard Viper and Clareguard GRL. Factors such as wire rope types, wire rope speed, types of wire rope lubricants used may affect results.

VIPER MARK II APPLICATIONS



CRANE WIRE ROPES

- Static overhead cranes
- Mobile cranes
- Tower cranes
- Ship cranes
- Wharf cranes

MARINE & OFFSHORE APPLICATIONS

- Mooring lines
- Dredge cables
- Anchor cables
- Ship deck winches
- Tug boat winches
- Remote Operated Vehicles (ROV) umbilical cables
- Dam sluice gate lubrication



WIRE ROPE MANUFACTURERS

- Internal coating whilst in production
- External coating as finished product

MINING APPLICATIONS

- Mine winder applications
- Stacker reclaimer boom wires
- Bucket wheel excavator boom wires



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