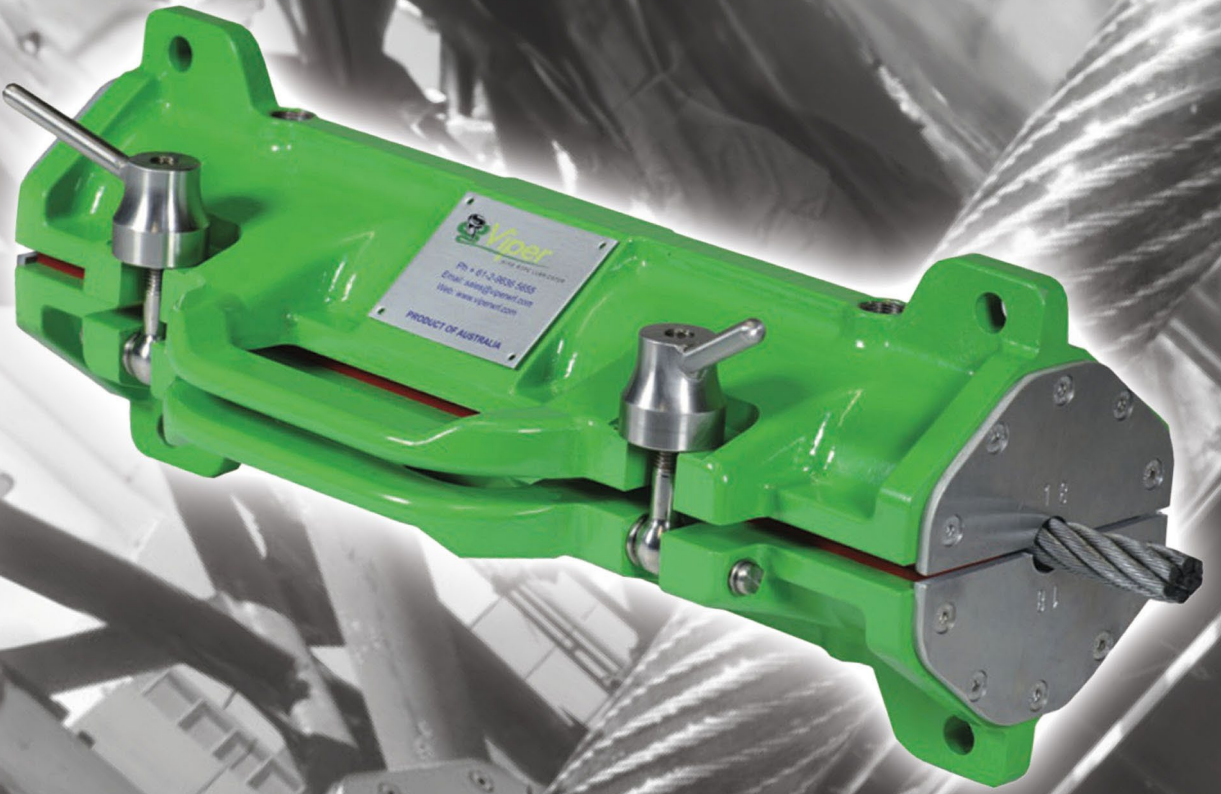




Drops A



**DATASHEET VIPER MKII
WIRE ROPE LUBRICATOR (WRL)**

WIRE ROPE LUBRICATOR (WRL)

MAIN APPLICATIONS

- ✓ MARINE AND OIL & GAS
- ✓ MINING
- ✓ CONSTRUCTION
- ✓ SHIPPING
- ✓ DEFENCE FORCE
- ✓ UNDERWATER OFFSHORE WIRE ROPES



The **Viper Mini MK 3** is designed to enable lubricant to migrate into the rope ensuring total coverage of lubricant. The collar is manufactured from high strength aluminium alloy with a robust coating to maximise corrosion resistance in harsh environments. This Viper WRL is designed for wire rope lubrication of mobile cranes, tower cranes, deck winches, construction and service cranes, anchor ropes and small marine cranes. Improved rope capacity **6mm to 44mm**.

The **Viper Mid MKII** lubricates ropes at up to 2000m/h and is recommended for use with wharf cranes, ship cranes, ROV cables, mind winders, mobile cranes, oil & gas platforms, anchor ropes, deck winches, overhead cranes and ship loaders. This Viper WRL provides grease penetration, moisture displacement and total coverage by forcing lubricant into the core of the rope. Fast and effective lubrication of wire ropes with a diameter between **6mm to 67mm**.

The **Viper Maxi MKII** lubricates ropes at up to 2000m/h. It is recommended for use with ROV cables, vessel crane ropes, underwater offshore wire ropes and drag lines. This Viper WRL provides grease penetration, moisture displacement and total coverage by forcing lubricant into the core of the rope. Fast and effective lubrication of wire ropes with a diameter between **50mm to 165mm**.

HEALTH SAFETY ENVIRONMENT BENEFITS

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

- ✓ Every gram of grease goes on the rope
- ✓ There is no leak, meaning no wasted lubricant and no environment impact
- ✓ Light weight allows for safe application
- ✓ There is no direct contact with the lubricant avoiding risk of accidental spillage
- ✓ The rope can be lubricated from a safe distance reducing hazardous safety risks

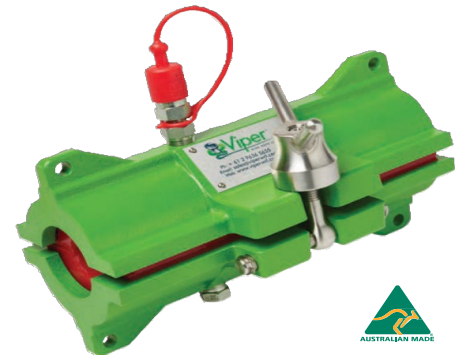


Safe, fast, efficient, environmentally responsible solutions for cleaning and lubricating wire ropes, increasing the life of wire rope assets by up to 300% and the time between relubrication.

VIPER WRL KITS

VIPER MINI MK 3 KIT INCLUSIONS

- Collar
- High Pressure Pump 50:1; 2,900 Grams/Min
- Complete with Air Regulator, Air Isolation Valve to enable Safer Operation
- Grease Pump complete with Drum Cover, Carry Handle, Follower Plate and 4m Hose with Quick Connects at each end
- Retaining Ratchet Straps and Shackles
- Robust Corrosion Resistant Aluminium Storage Case



Compact & Lightweight

- Only 3.5kg making Viper Mini MK 3 ideal for single person operation
- Minimising WHS issues whilst working at heights

Site efficient and Cost effective

- Preventative regulated maintenance increases asset longevity
- Lubricating ropes up to 2000 meters per hour
- Reducing relubrication times from several days to just hours, reducing manual labour by up to 90%
- Specially designed seal provides durability in harsh environments whilst ejecting moisture and water maximising corrosion resistance

VIPER MINI MK 3 - Improved rope capacity 6mm to 44mm



VIPER MID MKII KIT INCLUSIONS

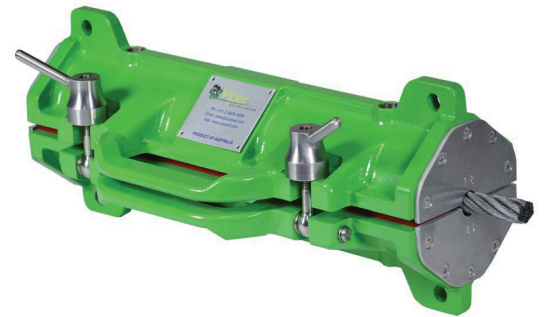
- High Strength Cast Aluminium Collar
 - constructed from high strength Aluminium Alloy, precision machined to tight specifications
 - completed with stainless steel hardware to provide maximum durability and corrosion protection.

The unit is designed for ease of use having handles located on each half of the collar.

- High Volume Lubricant Grease Pump built specifically for the Viper WRL

The unit delivers 4.5kg/min

- Complete with 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



In Built Handles

- Enabling ease of mounting unit to wire rope

4.5kg High Pressure Pump

- Ensuring consistent lubricant delivery across a wide range of ambient temperatures
- Less downtime

Due to the high-volume flow rate of the pump, meaning high speed lubrication up to 2000m/h

Superior Seal Design

- Viper Seal made from polyurethane with high abrasion resistance properties, meaning that it is resistant to wear and that the seal is used to lubricate thousands of meters of rope without being replaced
- Excess lubrication captured via a second seal chamber, meaning low environmental impact as the lubricant is contained
- The material/internal design of the seal allows the seal to mould to the shape of the rope, creating a pumping action massaging lubricant into the rope
- The seal moulds to the rope which means there is constant contact with the wire rope, thus enabling consistent lubrication

Metal Alloy Scraper Plate

- Enabling safe entry of broken wire ropes, ensuring the rope and seal are not damaged

VIPER MID MKII suits a wide Range of Rope Diameters with one Viper Kit 6mm to 67mm

VIPER MAXI MKII KIT INCLUSIONS

- High Strength Cast Aluminium Collar
 - constructed from high strength Aluminium Alloy, precision machined to tight specifications
 - completed with stainless steel hardware to provide maximum durability and corrosion protection

The unit can lubricate ropes up to 165mm (6-1/2") and is designed for ease of use having handles located on each half of the collar.
- Option of two Pumps supplied in 190kg Drum Size
 - the standard unit delivers 4.5kg/min
 - the optional high-volume unit delivers 13kg/min for fast lubrication of large diameter ropes, for further reduced downtime

Viper recommends the use of the high flow pump for ropes larger than 85mm.
- Twin Lubricant Inlets
 - providing maximum lubricant coverage for large wire ropes
 - this coupled with the high-volume grease pumps ensures effective lubrication occurs.
- Complete with Air Regulator, Moisture Trap with Gauge and Isolation Valve
- 10m High Pressure Supply Hose fitted with Coupling both ends
- Clear Lube Drain Hose
- 1200kg rated Ratched Retaining Straps and Bow Shackles
- Heavy Duty fully Welded Aluminium Storage Case



In Built Handles

- Enabling ease of mounting unit to wire rope

4.5kg High Pressure Pump

- Ensuring consistent lubricant delivery across a wide range of ambient temperatures
- Less downtime
 - Due to the high-volume flow rate of the pump, meaning high speed lubrication up to 2000m/h

Option for 13kg High Pressure, High Flow Pump

- High speed lubrication of ropes allows quicker lubrication, hence less downtime
- Enabling larger diameter and longer ropes to be lubricated

Superior Seal Design




- Excess lubrication captured via a second seal chamber meaning low environmental impact as the lubricant is contained
- Seal length enables longer dwell time for better penetration for larger diameter ropes

Metal Alloy Scraper Plate

- Enabling safe entry of broken wire ropes ensuring the rope and seal is not damaged

VIPER MAXI MKII suits for a Range of Rope Diameters with one Viper Kit 50mm to 165mm

The kits are supplied as a complete package, with all the components required.
 Order the kits. Select and order seals and scrapers to suit the rope size to be lubricated.

VIPER MINI MK3		
	PRODUCT CODE	KIT DESCRIPTION
	3850000 3850001 3850002	Kit including 20kg – 2.9kg/min Drum Pump Kit including High Speed 20kg – 4.5kg/min Drum Pump Kit including 180kg – 2.9kg/min Drum Pump
	3850050	Seals per pair (sizes to suit 6mm to 44mm Ropes) Physical measurement of Ropes is critical
	3850053	Viper Wire Rope Cleaner 15mm to 44mm Refer to selection guide when ordering

VIPER MINI MK 3 KIT includes the following:

- Light Weight, Alloy Lubricating Collar
- High Pressure / High Volume – 50:1 Pump (High Speed Kit - 45:1 Pump)
- Air Service Unit with Gauge and Air Isolation Ball Valve
- High Pressure Grease Flow Control Valve (HS Kits only)
- 4 Meter X 3/8” High Pressure Hose with Quick Connect Couplings
- 2 X 2 Meter Ratchet Straps rated at 500kg each c/w 4 X Bow Shackles
- Aluminium Storage Case 80cm X 30cm X 35cm fitted with Stainless Steel Hardware
- 2 X Lubricant Inlets & Hoses to suit (HS Kits only)

Kits do not include seals or wire rope cleaners – to order separately

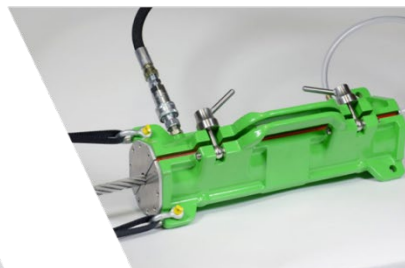
VIPER MID MKII		
	PRODUCT CODE	KIT DESCRIPTION
	3850003	Kit including 20kg – 4.5kg/min High Flow Drum Pump
	3850004*	Kit including 20kg – 4.5kg/min High Flow Drum Pump
	3850005	Kit including 50kg – 4.5kg/min High Flow Drum Pump
	3850006	Kit including 180kg – 4.5kg/min High Flow Drum Pump
	3850051	Seals per pair (sizes to suit 6mm to 67mm Ropes) Physical measurement of Ropes is critical
	3850054	Scrapers Plates per set of 4 Refer to selection guide when ordering
	3850055 3850056	Viper Wire Rope Cleaner 15mm to 55mm Viper Wire Rope Cleaner 56mm to 67mm Refer to selection guide when ordering

VIPER MID MKII KIT includes the following:

- Light Weight, Alloy Lubricating Collar, Shoulder Strap to carry Collar
- High Pressure / High Volume – 45:1 Pump
- Air Service Unit with Gauge and Air Isolation Ball Valve
- 1 Meter of Clear Hose for Excess Lubricant Return to Drum
- 2 X Lubricant Inlets & Hoses to suit (Hs Kits only)
- 4 Meter X ½” High Pressure Hydraulic Hose with Quick Connect Couplings
- High Pressure Grease Flow Control Valve
- 2 X 2 Meter Ratchet Straps rated at 500kg each c/w 4 X Bow Shackles
- Aluminium Storage Case 80cm X 45cm X 35cm fitted with Stainless Steel Hardware

***3850004 kit is fitted with 2 Inlets, recommended if NLGI 2 or great high tack products used**

Kits do not include seals, scrapers plates or wire rope cleaners - to order separately

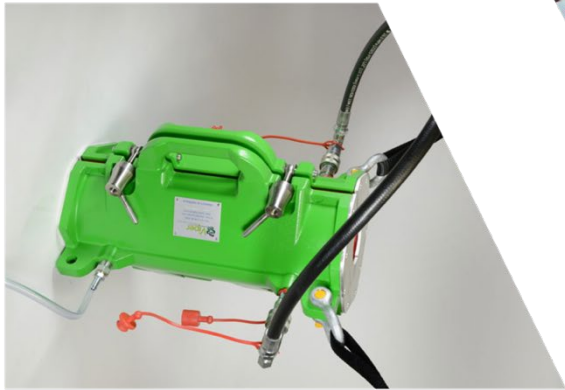


VIPER MAXI MKII		
	PRODUCT CODE	KIT DESCRIPTION
	3850007 3850008	Kit including 180kg – 4.5kg/min High Flow Drum Pump Kit including 180kg – 13kg/min Extra High Flow Drum Pump <u>*Recommended for Wire Ropes over 80mm*</u>
	38500052	Seals per pair (sizes to suit 50mm to 165mm Ropes) Physical measurement of Ropes is critical
	3850057	Scraper Plates per set of 4 Refer to selection guide when ordering
	3850058 3850059	Viper Wire Rope Cleaner 55mm to 102mm Viper Wire Rope Cleaner 103mm to 165mm Refer to selection guide when ordering

VIPER MAXI MKII KIT includes the following:



- Light Weight, Alloy Lubricating Collar
- High Pressure / High Volume – 45:1 Pump (50:1 Extra High Flow)
- Air Service Unit with Gauge and Air Isolation Ball Valve
- 1 Meter of Clear Hose for Excess Lubricant Return to Drum
- 10 Meter X 3/4" High Pressure Hydraulic Hose with Quick Connect Couplings
- High Pressure Grease Flow Control Valve
- 2 X 4 Meter Ratchet Straps rated at 1200kg each c/w 4 X Bow Shackles
- Aluminium Storage Case 80cm X 45cm X 45cm fitted with Stainless Steel Hardware

Kits do not include seals, scraper plates or wire rope cleaners - to order separately





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VIPER WRL LUBRICANTS		
	PRODUCT CODE	DESCRIPTION
	3850060	Coating Lubricant which penetrates and protects 15.9 kg
	3850061	Coating Lubricant which penetrates and protects 181.4 kg
	3850062	Tacky Fluid Grease which penetrates and resists water 15.9 kg
	3850063	Tacky Fluid Grease which penetrates and resists water 181.4 kg

Shipping

- 15.9kg pails recommended shipping in pallet lots of 24. 181.4kg
- Drums recommended shipping in pallets of 4