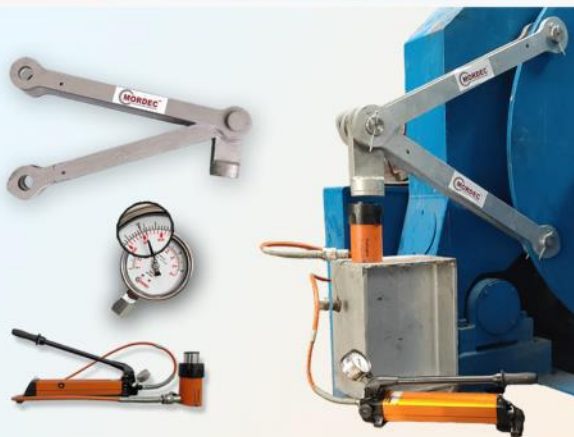




Mordec Preventive Maintenance Products



ASSIST IN THE **INSPECTION AND MAINTENANCE**

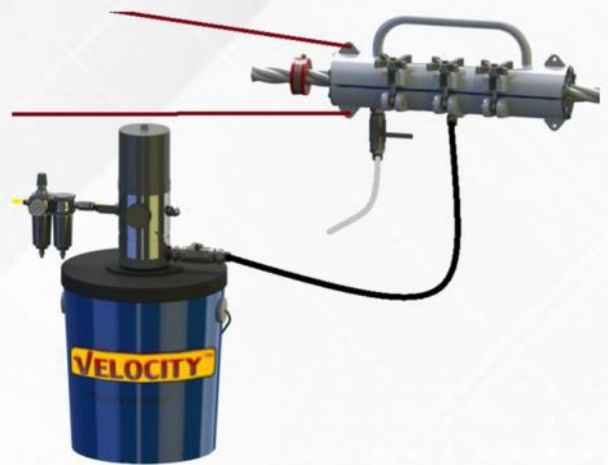
OF YOUR **LIFTING AND MOORING GEARS**

VELOCITY™

WIRE ROPE LUBRICATING SYSTEM

VELOCITY™ WRLS provides fast and effective cleaning and lubrication of wire ropes by forcing quality lubricant under high pressure to the core of the wire rope.

- ✓ Suitable for wire from 8mm to 48mm
- ✓ Protect wire rope against corrosion
- ✓ Non-messy operation
- ✓ Reduce lubricant wastage
- ✓ Effectively remove dirt
- ✓ Uniform Lubricating Process
- ✓ Penetrating to the core of wire rope



VELOCITY™ WIRE ROPE LUBRICATING SYSTEM



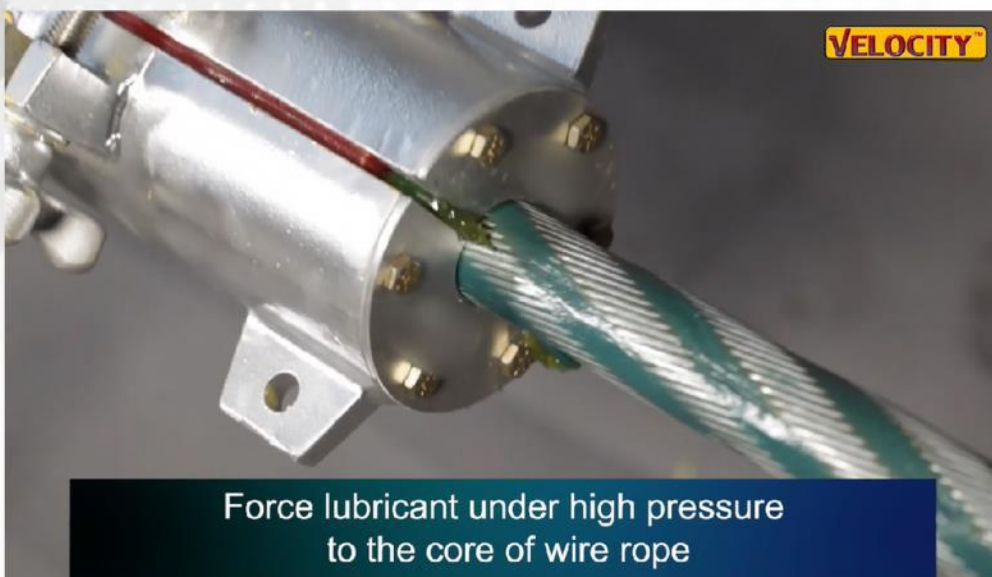
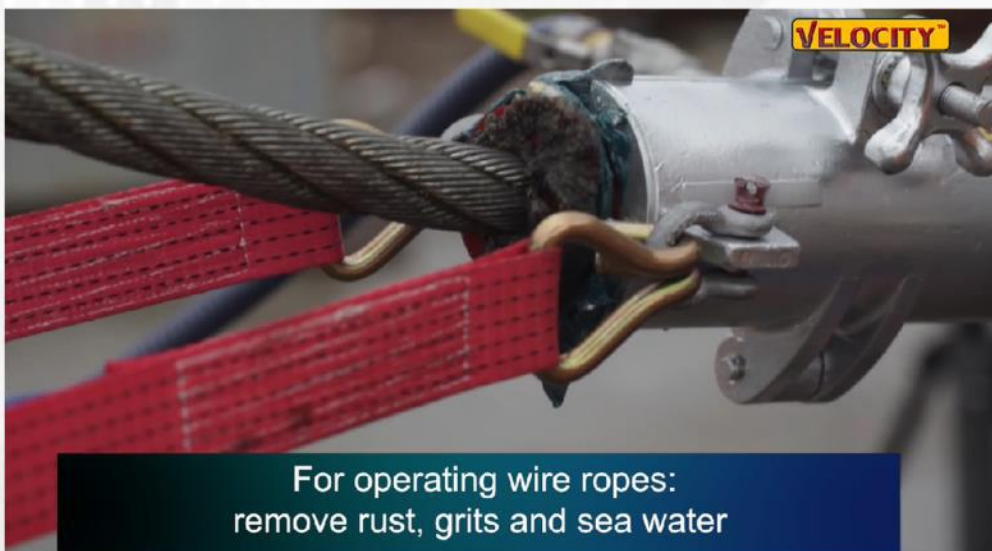
MORDEC WIRE ROPE MANAGEMENT PROGRAM

INTEGRITY # QUALITY # RELIABILITY

VELOCITY™ WIRE ROPE LUBRICATING SYSTEM

VELOCITY™ Wire Rope Lubricating System is suitable for use during new wire installation, the lubricants penetrating into the core of wire ropes, the wire will be thoroughly lubricated, hence it can last longer.

For lubrication of operating wire, it can remove rust, grits and sea water effectively before the lubricants being force to the core of the wire rope.



MORDEC WIRE ROPE SHEAVE GAUGE



An extremely useful tool to identify the condition of the Sheave Groove

- ✓ Available in 12 sizes
- ✓ Designed with a +5% tolerance nominal diameter of the groove

Sheaves should be checked periodically for wear in the grooves which may cause abrasion, broken wires and bird caging of the wire rope.



Correct

A correct sized Sheave Groove allows a wire rope to pass through unhindered by friction or obstructions. According to ISO 16625, the groove of the drum and sheave should have a diameter within 5% to 10% bigger than wire rope diameter.

To determine the amount of wear:

- Place the proper size Mordec Wire Rope Sheave Gauge in the sheave.
- Shine a light behind the gauge. Light should not be detected between the gauge and the root of the groove.
- If wear is evident, the sheave should be re-machined or replaced.



Tight Sheave

- Too small of a groove compresses the rope and reduces its useful life because the rope will roll into the sheave groove introducing torque and twist which may cause high stranding and bird-cages.



Tight Sheave



Loose Sheave

Loose Sheave

When groove become overly worn or are too large, they may allow excessive movement, which stresses the rope and lead to a reduction of the service life.

WIRE TYPE	AVAILABLE FOR WIRE ROPE SHEAVE SIZE
Luffing Wire	24mm, 25mm, 26mm, 28mm, 30mm
Hoisting Wire	31.5mm, 32mm, 33.5mm, 34mm, 35.5mm, 36mm, 38mm

MORDEC BRAKE TEST KIT

— MOORING WINCH —

High quality brake test kit with compact design and easy to use

MORDEC Brake Test Kit - Mooring Winch simulates the load on the line by means of a hydraulic cylinder jack, producing a torque on the winch drum.

Its compact design is suitable to conduct:

- ◆ **Brake Holding Test**
 - To ensure brakes will hold at a given load
- ◆ **Brake Rendering Test**
 - To ensure brakes act as a safety device for mooring lines
 - To ensure brakes will render (slip) to allow the lines to shed its load before it breaks



✓ Easy to use

- Pressure Gauge - Calibrated to read the calculated Jacking force. No need for conversion.
- Operation - Designed for one person to install and operate.



✓ Fits standard mooring winch drum

- Location of the holes to be drilled on the flange based on ISO 3730 standard

✓ Rugged and Durable

- Certificate of Conformity provided
- Pressure Gauge with calibration report



Available Sizes

Model Number	Brake Holding (T)	Ship Design MBL (T)	LDBF (T)
BTK-MW-100	15 to 31	19 to 39	20 to 41
BTK-MW-200	31 to 73	39 to 91	41 to 96
BTK-MW-300	73 to 105	91 to 131	96 to 138

*LDBF = Line Design Break Force

*Actual Specifications are subject to Winch Information

- ❗ OCIMF and ISGOTT recommend Brake Holding of Mooring Winch:
- Should be tested annually
 - Should be set at 60% of ship design MBL



MOORING ROPE PROTECTOR



Available sizes:

Width(mm)	Length(mm)	Dia(mm)
250	3000	24 to 40
300	3000	44 to 56
375	3000	60 to 80
525	3000	84 to 110

“MORDEC” Mooring Rope Protector is a Flat Polyester Webbing Pad used for the Protection of Mooring Ropes against abrasive surfaces.

Ropes can be easily damaged if subjected to rough surfaces or sharp edges. With our “MORDEC” Mooring Rope Protector, it will prevent strength loss and **maximize the lifespan** of your Mooring Ropes.

The Velcro scratch tape, firmly stitched on the sleeve guard, is used for quick & easy installation and removal.

Every piece of our “MORDEC” Mooring Rope Protector come with a traceability barcode which allows an end-to-end traceability system to verify the quality and integrity of our products.

With a very minimum cost set aside to purchase these protectors, you will achieve **substantial cost savings** in return because your ropes are being protected for a much increased life-span!



CHOCK WEDGE

Extends the operating lifespan of the mooring ropes and reduces the need for rope replacement

Mordec Chock Wedge is designed to prevent mooring ropes from wear and damage. The polyurethane material protects the ropes from abrasion due to the sharp edges and uneven surface of the chock.

Mordec Chock Wedge should be in all vessels equipped with HMPE, Dyneema or Double Braided Mooring Ropes.

Its compact design is made to fit perfectly with the Deck Mounted Chocks or Bulwark Chocks fabricated under the ISO standards or JIS standards. It is also designed to fit into the Chocks in accordance to the ETA/SPM requirements.

Benefits & Advantages

- Increase operating lifespan of mooring ropes
- Significantly reduce rope wear and abrasion
- Reduce friction
- Corrosion resistance
- Easy installation & Maintenance
- Light Weight
- Pull Load Test inspected and witnessed by ABS

Mooring Rope with Mordec Chock Wedge



Rope remain in Good Condition after 1000 cycles

2018, MEG4 Guidelines

- Mooring Ropes are subject to wear and damage from abrasion with the chock.
- Panama Chocks or Closed Chocks should be fitted with stainless steel or polymer inserts or liners to protect the mooring ropes.

Mooring Rope without Polymer Inserts



Damage to rope after 60 cycles



Rope failure after 300 cycles

MORDEC™ ANTI-TWIST TURNTABLE

Avoids Twisting during Installation of the Mooring Rope or Wire Ropes

MORDEC ANTI-TWIST TURNTABLE - 1500MM

- Allows Ropes to unravel in a neat and tidy length without twists and kinks
- Uprights adjust to suit center core of material
- Heavy Load Wheel with Locks to allow movement of coil
- Can be used for all types of drums by removing the uprights



Item No. : PATT-1500

Size (mm) : 1500

Max Load (kg) : 2000

Weight (kg) : 80



INSTALLATION OF MOORING ROPE

Allows Ropes to unravel in a neat and tidy length without twists and kinks



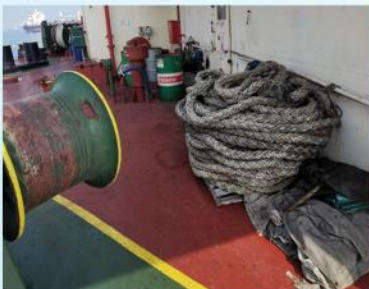
Before



After

STORAGE OF AUXILIARY MOORING ROPE

Heavy Load Wheel with Locks to allow movement of coil



Before



After

STORAGE OF DECK CRANE WIRE ROPE

Can be used for all types of drums by removing the uprights



Before



After