




***Mordec International Pte Ltd***  
***Corporate Profile***

***"Where Safety Begins"***

© Dec 2024 by Mordec International Pte Ltd

A large container ship is docked at a port, with its deck stacked high with colorful shipping containers. In the background, several tall gantry cranes are visible against a cloudy sky. The ship and the port infrastructure are reflected in the calm water in the foreground.

Mordec International is the Solutions Provider for Mooring, Lifting, Anchoring and Towing, supported with M-Series Programs, Products and Services that cultivating **“Where Safety Begins”**



## COMPANY CERTIFICATION



### Mordec International Pte Ltd

Stringent Standards

Protect Health and Safety of Personnel

Quality Policy, Procedures, Processes and Resources

**ISO 45001:2018 Occupational Health and Safety Management System,**

**ISO 9001:2015 Quality Management System**

**bizSAFE STAR**



*“In achieving these objectives, we are committed to the following principles with the full cooperation of all employees working as a team.”*

# MORDEC PRODUCTS & SERVICES OVERVIEW



MORDEC M-STEEL WIRE ROPES	MORDEC M-FLEX MOORING ROPES	MORDEC ANCHOR CHAIN MANAGEMENT	MORDEC DECK MACHINERY	MORDEC DECK FITTINGS	SERVICES
MORDEC SCRM	MORDEC MSMP	MORDEC ACM Manual	MORDEC Deck Machineries	MORDEC ETA SYSTEM	Container Spreader Inspection & Testing
VELOCITY Wire Rope Lubricating System	MORDEC Mooring Rope Protector	MORDEC ACM Pre-Calibration Report	Cranes & Lifeboat Davit	MORDEC SPM SYSTEM	Loose Gear Re-Certification
MORDEC Anti-Twist Turntable	MORDEC Chock Wedge	Anchor Chain & Fitting	MORDEC OEM Factory	MORDEC ACP SYSTEM	Water Bag Rental
MORDEC Wire Storage Drum	MORDEC Fairlead Roller Protector	Repair of Anchor		MORDEC Deck Fittings	Fabrication / Machining / Repair
MORDEC Wire Rope Sheave Gauge	MORDEC Brake Test Kit – Mooring Winch	Afloat Installation			Spooling / Splicing of Wire Ropes
					Wire Rope / Synthetic Rope Destructive Test



# MORDEC PRODUCTS & SERVICES OVERVIEW



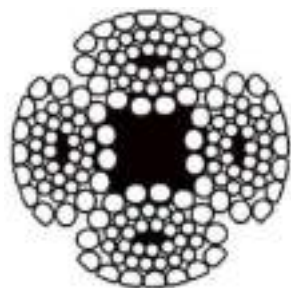
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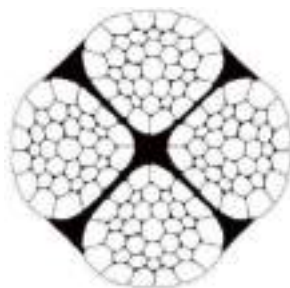
# MORDEC M-STEEL WIRE ROPES



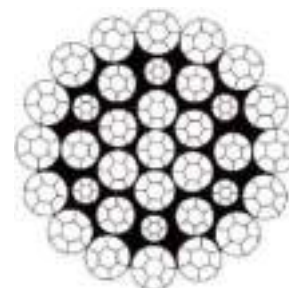
MORDEC M-Steel Wire Rope would be the suitable replacement for your Crane Hoisting & Luffing Wire Ropes, Mooring Wire Ropes, Towing Wire Ropes, Lifeboat & Davit Wire Ropes.



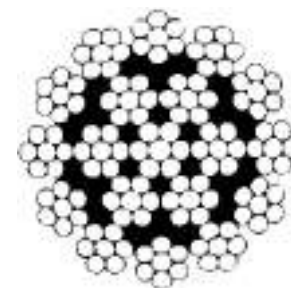
4XSES(39)+FC



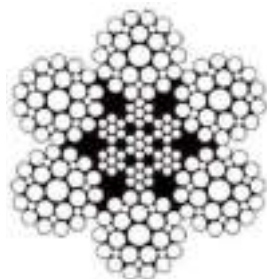
4X36+FC



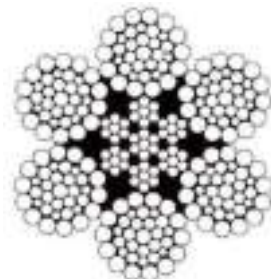
35X7+WA



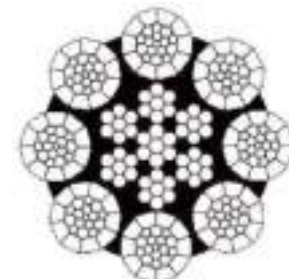
19X7



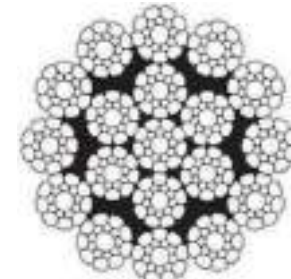
6X29(FI)+IWRC



6X36(WS)+IWRC



8XWS(26)+IWRC



18X19+FC

# MORDEC SCRM USER'S HANDBOOK



## MORDEC SCRM USER'S HANDBOOK:

- ✓ Installation, Inspection, Care & Maintenance Guide
- ✓ Consolidated Inspection Checklist for Hoisting & Luffing
- ✓ Discard Criteria Based on ISO 4309
- ✓ Summary & Records of Wire Ropes History
- ✓ Endorsed by RINA 3<sup>rd</sup> Party Class

## VELOCITY WIRE ROPE LUBRICATING SYSTEM

MORDEC  
M-STEEL  
Wire Rope

MORDEC™  
mordec international pte ltd

**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.



### VELOCITY™ WRLS:

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

## MORDEC ANTI-TWIST TURNTABLE

**MORDEC**  
M-STEEL  
Wire Rope

**MORDEC**  
mordec international pte ltd



### APPLICATION:

- ✓ Wire Rope Installation
- ✓ Mooring Rope Installation
- ✓ Auxiliary Mooring Rope Storage

<b>Size</b>	Dia. 1500 mm
<b>Max load</b>	2000 kg
<b>Weight</b>	80 kg

## MORDEC WIRE STORAGE DRUM

**MORDEC**  
M-STEEL  
Wire Rope

**MORDEC**  
mordec international pte ltd



### MORDEC Wire Storage Drum:

- ✓ Design for Storage of Hoisting and Luffing wire ropes in Bosun Store
- ✓ Prevent wire rope from corrosion by staying away from the trapped water in Bosun Store
- ✓ Easy wire rope installation, directly pull from the storage drum
- ✓ Wire Storage Drum can be dismantle and pass thru Bosun Store door, and assembly easily in the Bosun Store

# MORDEC WIRE ROPE SHEAVE GAUGE

Mordec Wire Rope Sheave Gauge can be used to identify sheave condition whether it is in good, tight or loose sheave condition.



**GOOD**



**TIGHT**



**LOOSE**

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

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# MORDEC M-FLEX MOORING ROPES



MORDEC M-FLEX Mooring Ropes was designed for SAFE MOORING operation. Our M-FLEX Series Products includes PP, Mixed, Nylon, Anti-Snap Back (ASB), UHMWPE and etc. c/w various features and compliance to OCIMF MEG 4 and SOLAS Regulations II, 1-3/8.



M-FLEX 8S PP



M-FLEX 8S Mixed



M-FLEX 12S ASB



M-FLEX 12S UHMWPE

## MORDEC MSMP USER'S HANDBOOK



### MORDEC MSMP USER'S HANDBOOK:

- ✓ Compliance to NEW SOLAS II-I Reg. 3-8, MSC.1/Circ.1620
- ✓ Installation, Inspection, Care & Maintenance Guide
- ✓ Comprehensive Inspection Checklist & Summary Records
- ✓ Endorsed by RINA 3<sup>rd</sup> Party Class

## MORDEC MOORING ROPE PROTECTOR



- ✓ Protect Mooring Rope against abrasion
- ✓ High Quality & Robust Material
- ✓ Easy installation

# MORDEC CHOCK WEDGE



Pilbara Ports Marine Safety Bulletin  
Port Hedland  
04/2024



## Recommendations:

### 1. Discontinuation of Chafe Protection Use:

- Due to the significant safety and operational risks identified, it is recommended that the use of chafe protection on mooring lines be discontinued immediately. The potential benefits do not outweigh the extreme risks posed to crew safety and port operations.

### 4. Types of Chafe Protection:

- There are various types of chafe protection that are not attached to the mooring lines and can be installed on or removed from mooring arrangements i.e. on a chock or fairleads which must be done well before a vessel enters the Port or after the vessel departs. These alternatives can mitigate the risks associated with handling chafe protection under tension and reduce operational delays.

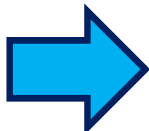


- ✓ Protect Mooring Rope against abrasion
- ✓ Permanent / One time Installation
- ✓ Material: High Density Polymer
- ✓ Easy Installation
- ✓ Load Tested to SWL of Chock
- ✓ C/W RINA Inspection Report

# MORDEC FAIRLEAD ROLLER PROTECTOR



Rusty Fairlead Roller



Fairlead Roller Protector



Long Lasting Solutions

## MORDEC Brake Test Kit – Mooring Winch



- ✓ Fit standard mooring winches
- ✓ Easy Installation
- ✓ No need conversion calculation
- ✓ 60%/80% Marking Bar (Tailor made per request)



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## MORDEC ACM PROGRAM

### MORDEC™ ACM PROGRAM HIGHLIGHT:

- Advanced Planning of the Anchor Chain for Entire Fleet to achieve COST SAVING
- Accurate MORDEC ACM Pre-Calibration Report
- Notification & Report of Anchor Chain requirement for next docking
- Ensure Stock Availability with Free Storage at Singapore & China
- Hassle-free Supply with Buy Back and Trade In Option
- Free Accessories (Lead Plug, Disengage Tools & Bandit Tie)
- Option for Installation at IPL Singapore



# MORDEC ACM MANUAL & PRE-CALIBRATION REPORT

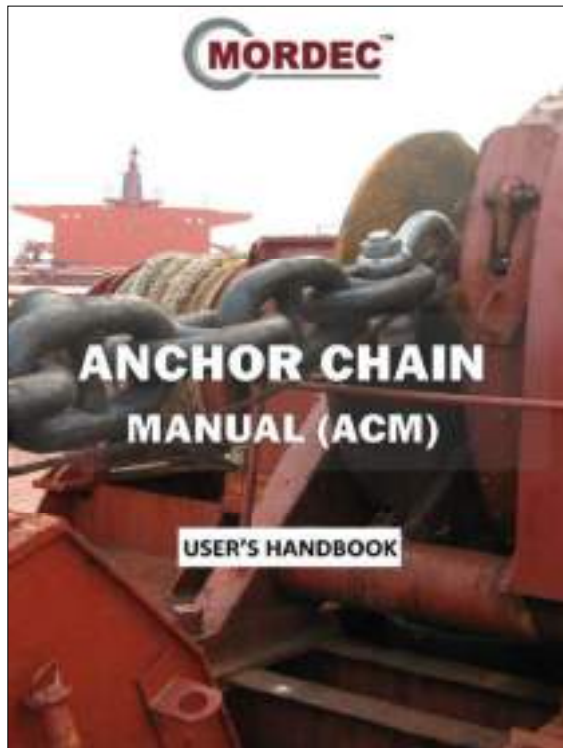


## MORDEC ACM MANUAL:

- ✓ Provide Tech. Spec. of Anchor and Chain
- ✓ Inspection, Care & Maintenance Guide

## MORDEC ACM PRE-CALIBRATION REPORT:

- ✓ Predict estimated qty of chain in next docking
- ✓ Based on last Calibration Report & next docking schedule

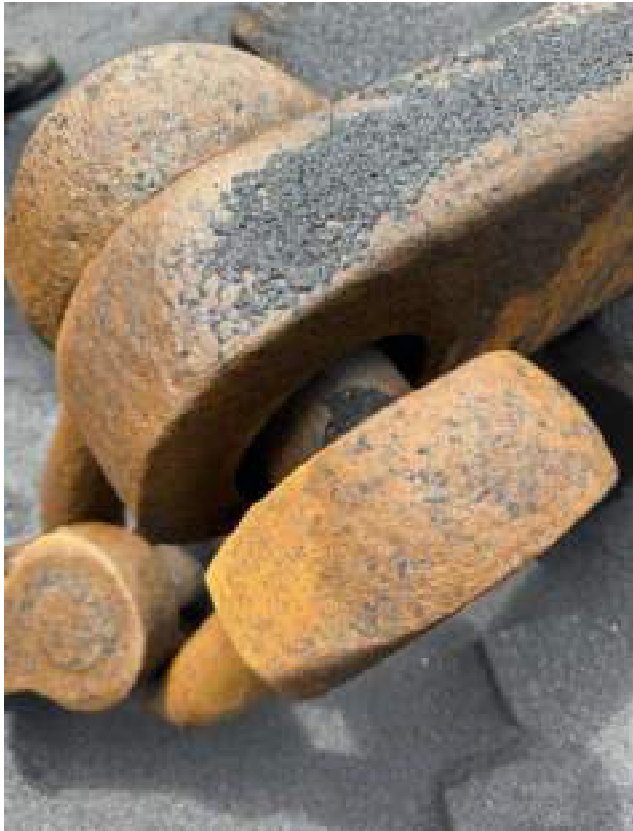


**Anchor Chain Management (ACM) and Material Procurement Requisition (MPR)**

Below is the summary of your chain fitting requirement based on your Calibration Report

Anchor		Anchor Chain		Summary	
Item No.	Description	Item No.	Description	Quantity	Unit
1.000	ANCHOR	1.000	ANCHOR CHAIN	1000	MT
1.001	ANCHOR CHAIN	1.001	ANCHOR CHAIN	1000	MT
1.002	ANCHOR CHAIN	1.002	ANCHOR CHAIN	1000	MT
1.003	ANCHOR CHAIN	1.003	ANCHOR CHAIN	1000	MT
1.004	ANCHOR CHAIN	1.004	ANCHOR CHAIN	1000	MT
1.005	ANCHOR CHAIN	1.005	ANCHOR CHAIN	1000	MT
1.006	ANCHOR CHAIN	1.006	ANCHOR CHAIN	1000	MT
1.007	ANCHOR CHAIN	1.007	ANCHOR CHAIN	1000	MT
1.008	ANCHOR CHAIN	1.008	ANCHOR CHAIN	1000	MT
1.009	ANCHOR CHAIN	1.009	ANCHOR CHAIN	1000	MT
1.010	ANCHOR CHAIN	1.010	ANCHOR CHAIN	1000	MT
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1.099	ANCHOR CHAIN	1.099	ANCHOR CHAIN	1000	MT
1.100	ANCHOR CHAIN	1.100	ANCHOR CHAIN	1000	MT

## REPAIR OF ANCHOR



- ✓ **Crown Shackle Repair / Renew**
- ✓ **Machining of Pin Hole on Anchor Shank**
- ✓ **Insert Bushing inside hole of Anchor Shank**
- ✓ **Pin Replacement**

## AFLOAT INSTALLATION



### ONE STOP SOLUTIONS FOR AFLOAT INSTALLATION:

- ✓ At IPL Singapore Anchorage
- ✓ Supply, transport (In-Land and Workboat), Installation
- ✓ With our skilled workers / team

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Wire Rope / Synthetic Rope Destructive Test

# MORDEC DECK MACHINERY



## MORDEC DECK MACHINERY:

- ✓ Combination Windlass/ Winch
- ✓ Anchor Windlass Up to 81mm U3
- ✓ Towing/ Mooring Winch: Up to 250 ton
- ✓ AHT Winch: Up to 250 ton
- ✓ Tugger Winch & Capstan: Up to 25 ton
- ✓ Shark Jaw & Towing Pin: Up to 300 ton
- ✓ Air Capstan & Winches
- ✓ Deck Crane up to 20Ton @30m
- ✓ Material Handling Crane



## MORDEC OEM FACTORY



**100 Hectare Land, 9 Warehouse, Test Tower,  
Production, Office Buildings, Accommodations**

**~100km from Shanghai Pudong Airport**



**新胜发机械制造(江苏)有限公司**  
SIN SENG HUAT MACHINERY MANUFACTURE (JIANGSU) CO., LTD

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Wire Rope / Synthetic Rope Destructive Test

# MORDEC DECK FITTINGS / ACP / ETS / SPM / PPA



**Mordec Towing Chock  
Bulwark Mounted**  
ETS SWL: 102T, 204T,  
SPM SWL: 200T, 250T, 350T  
PPA SWL: 120T



**Mordec Towing Chock  
Deck Mounted**  
ETS SWL: 102T, 204T,  
SPM SWL: 200T, 250T, 350T  
PPA SWL: 120T



**Mordec Panama Chock  
Single or Double  
Bulwark Mounted**  
ACP SWL: 45.36T, 64T, 90T



**Mordec Chain Stopper OCIMF**  
ETS SWL: 102T, 204T,  
SPM SWL: 200T, 250T, 350T



**Mordec Smit Bracket OCIMF**  
ETS SWL: 102T, 204T,  
SPM SWL: 200T, 250T, 350T



**Mordec Double Bitt Bollard**  
ACP SWL: 64T and 90T  
PPA SWL: 120T



**Mordec Panama Chock  
Single or Double  
Deck Mounted**  
ACP SWL: 45.36T, 64T, 90T



**Mordec Pedestal Fairlead Roller**  
ACP SWL: 45.36T, 64T and 90T



## Panama Canal Authority (ACP)



## Single Point Mooring (SPM)



## Emergency Towing System (ETS)



## Pilbara Port Authority (PPA)



# MORDEC PRODUCTS & SERVICES OVERVIEW



MORDEC M-STEEL WIRE ROPES	MORDEC M-FLEX MOORING ROPES	MORDEC ANCHOR CHAIN MANAGEMENT	MORDEC DECK MACHINERY	MORDEC DECK FITTINGS	SERVICES
MORDEC SCRM	MORDEC MSMP	MORDEC ACM Manual	MORDEC Deck Machineries	MORDEC ETA SYSTEM	Container Spreader Inspection & Testing
VELOCITY Wire Rope Lubricating System	MORDEC Mooring Rope Protector	MORDEC ACM Pre-Calibration Report	Cranes & Lifeboat Davit	MORDEC SPM SYSTEM	Loose Gear Re-Certification
MORDEC Anti-Twist Turntable	MORDEC Chock Wedge	Anchor Chain & Fitting	MORDEC OEM Factory	MORDEC ACP SYSTEM	Water Bag Rental
MORDEC Wire Storage Drum	MORDEC Fairlead Roller Protector	Repair of Anchor		MORDEC Deck Fittings	Fabrication / Machining / Repair
MORDEC Wire Rope Sheave Gauge	MORDEC Brake Test Kit – Mooring Winch	Afloat Installation			Spooling / Splicing of Wire Ropes
					Wire Rope / Synthetic Rope Destructive Test



# CONTAINER SPREADER INSPECTION & TESTING



## CONTAINER SPREADER SERVICES:

- ✓ Assessment for Repair Requirement
- ✓ Repair and Replace Parts
- ✓ Function Test
- ✓ Proof Load Test
- ✓ Water / Sand Blasting
- ✓ Wire Sling Re-Certification
- ✓ C/W MORDEC In House Test Cert
- ✓ C/W RINA 3<sup>rd</sup> Party Class Inspection Report for Proof Load Test

## LOOSE GEAR RE-CERTIFICATION



### LOOSE GEAR RE-CERTIFICATION:

- ✓ Loose Gear Re-Certification
  - Load Test
  - NDT
  - Visual Inspection
- ✓ Certificate will be issued for relevant Inspection / Test Carried out.



## WATER BAG RENTAL



### WATER BAG RENTAL:

- ✓ Heavy Duty Water Bag in accordance to Regulatory Standard
- ✓ Wide Range of Water Bag for Load Testing with Water
- ✓ Available for Sales and Rent based on project needs

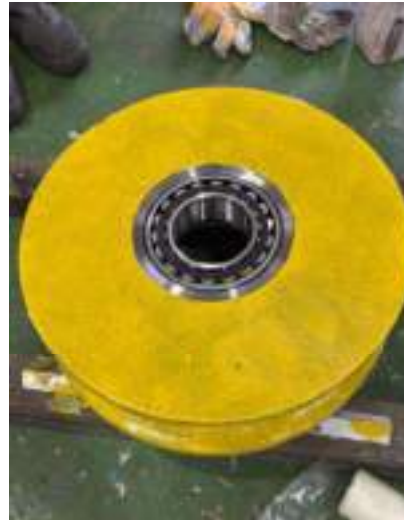
# FABRICATION / MACHINING / REPAIR



**In House Machining  
for our Clients' need  
for their Project**



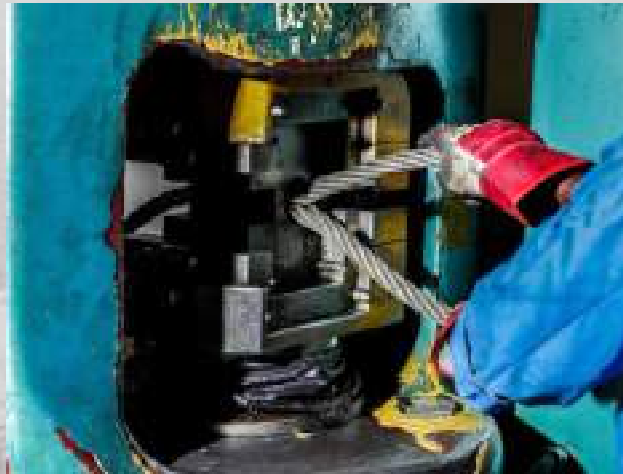
# FABRICATION / MACHINING / REPAIR



# FABRICATION / MACHINING / REPAIR



# WIRE ROPE RE-SPLICING & RE-SOCKETING



# SPOOLING SERVICES



## MORDEC SERVICES



### MORDEC SERVICES:

- ✓ Wire Rope Re-Lubrication & Re-Certification
- ✓ Wire Rope Proof Load & Destructive Test
- ✓ Synthetic Rope Destructive Test
- ✓ Mooring Tail Destructive Test



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