



Design



Fender Systems



Development



Quick Release Hook Systems



Manufacturing



Mooring Bollards - Cleats



Sourcing



Marine Capstans - Drives



Quality Control



Marine Monitoring & Automation

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Marine Fender Products



I Series Element Fenders

Excellent ER Ratio / Flexible Installation
300mm-1600mm Standoff Standard Models



SC Series Super Cell Fenders

Excellent ER Ratio / Non Directional Performance
400mm-3000 Standoff Standard Models



UC Series Ultra Cell Cone Fenders

Outstanding ER Ratio / Unrivaled Angular Performance
600mm-2000mm Standoff Standard Models



A Series Super Arch Fenders

Excellent ER Ratio / Easy Stand Alone Installation
200mm-1000mm Standoff Standard Models



O Series Cylindrical Fenders

Moderate ER Ratio / Easy Stand Alone Installation
100mm-5000mm Standoff Standard Models



F Series Foam Filled Floating Fenders

Ideal For Wide Tidal Range / Easy Installation
400mm-5000mm Standoff Standard Models



D Series D Shape Fenders

Ideal For Beam - Pile Installation / Simple & Versatile
150mm-600mm Standoff Standard Models



R Series Rectangular Fenders

Ideal For Beam - Pile Installation / Simple & Versatile
150mm-600mm Standoff Standard Models



TC/TCS Series Turn Cell Fenders

Ideal For Channel - Corner Protection / 1-3 Cell Configuration
400m-3000 Standoff Standard Models



EC Series End Loaded Cell Fenders

Ideal For Ship to Ship Application / Easy Installation
400mm-3000mm Standoff Standard Models



Custom Fenders

Special Applications / Replacements
Custom Dimensions / Material / Specifications / Bolt Pattern



Marine Hardware

Front Panels / Standoff Compensators / Tilting Limit Pivot Arms
Specialty Chains / Hardware

Mooring Bollard - Cleat Products



DBA2 Series Double Bollards

20T-300T Standard Models, Wide Angle
Cast Steel or Cast Iron



DBB1 Series Double Bollards

30T-300T Standard Models
Cast Steel or Cast Iron



DBC1 Series Double Bollards

3T-50T Standard Models
Cast Steel or Cast Iron



SBF1 Series Double Bollards

10T-300T Standard Models
Cast Steel or Cast Iron



CL Series Cleats

5-50T Standard Models in 7 Series
Cast Steel or Other Materials



Custom Casting & Hardware

Special Mooring Devices and Hardware
Bollard Anti Slip Devices



SBA3 Series Single Bollards

5T-300T Standard Models
Cast Steel or Cast Iron / Slanted Post



SBB1 Series Single Bollards

3T-300T Standard Models
Cast Steel or Cast Iron



SBC1 Series Single Bollards

3T-300T Standard Models
Cast Steel or Cast Iron



SBD1 Series Single Bollards

30T-300T Standard Models
Cast Steel or Cast Iron



SBD2 Series Single Bollards

50T-300T Standard Models
Cast Steel or Cast Iron



SBE1 Series Single Bollards

30T-300T Standard Models
Cast Steel or Cast Iron

Marine Monitoring & Automation Hardware



LIS Local Interface Stations

Sensor Hub / Network Gateway / Network Storage
Local - Network Controller / Local - Network Monitor



DCS / DMS Digital Control Stations

Programmable Control / Straight Forward Monitoring
Rugged Construction / Mass Storage



CMS / CCS Computer Monitoring Stations

Work with MMCS-PC Suite Software / Control Option
Ultimate Monitoring / Analysis / Reporting Functionalities



HMS / HCS Handheld Monitoring Stations

Mobile Monitoring Device with Control Option
Active System Data Acquisition Capability



PSU Wireless Positioning Sensor Unit

Array of Gyro Scope-Accelerometer-Specialty BIM Sensors
Custom Designed Berthing Impact Monitoring-Fender Monitoring



LS Series Load Sensors

10-250T Load Measurement For MLM System / QRHS
Better Than 1% Accuracy / IP-EXD / Customizable



DS Series Distance Sensors

200-500m Laser Distance Measurement For BSM System
Millimeter Accuracy / IP-EXD



LDMU Large Display Monitoring Units

Large Ultra Bright Display Visible From Great Distance
Key BSM Data Display & General Message Board



WDS Series Wind Sensors

Accurate Measurement of Wind Speed & Direction
For Integration into MEM Sub System



CS Series Current Sensors

Accurate Measurement of Current Speed & Direction
For Integration into MEM Sub System



Marine Monitoring & Automation Software



MMCS PC Suite BIM Software

Berthing Accident Real Time Monitoring & Alarms
Fender Monitoring & Preventive Maintenance Guidance



MMCS PC Suite MLM Software

Advanced Mooring Load Monitoring & Analysis
Conventional Mooring Load Monitoring with Vector Analysis



MMCS PC Suite BSM Software

Advanced Berthing Vessel Status Monitoring & Analysis
Conventional Laser Distance Monitoring with Scanning Capability



MMCS PC Suite ACM Software

Real Time or Preset Programmable Automation
Stand Alone or Integrated with MMCS Monitoring Applications



MMCS PC Suite MEM Software

Current Wave Wind Air Gas Monitoring
Stand Alone or Integrated with Other MMCS Applications



MMCS PC Suite Automation Software

Program Controls of System Wide Actuators / Drives For Automation
Stand Alone or Work with DCS-DMS Control Stations



MMCS PC Suite Fender Testing - Monitoring Software

Fender System Performance Monitoring & Analysis
In House or Field Testing Capability

Marine Capstan - Drive Products



CA Series Integrated Capstan

1-10T Standard Model for QRHS
Automation / EXD / IP Options



CB Series Stand Alone Capstan

Vertical or Horizontal Configurations
Automation / EXD / IP Options



AE Series Electric Actuators

Standard Model For QRHS Release
Automation / EXD / IP Options



AH Series Electro Hydraulic Actuators

Standard Model For QRHS Release
Automation / EXD / IP Options



Custom Drives & Automation

Winches / Gangway Towers etc.
MEM Sensor Cranes / LDMU Turn Tables etc.

Quick Release Hook Products



Z1 Single Quick Release Hook Systems

30-200T Standard Models
Optional Capstan / Automation / Monitoring



Z2 Double Quick Release Hook Systems

30-200T Standard Models
Optional Capstan / Automation / Monitoring



Z3 Triple Quick Release Hook Systems

30-200T Standard Models
Optional Capstan / Automation / Monitoring



Z4 Quadruple Quick Release Hook Systems

30-200T Standard Models
Optional Capstan / Automation / Monitoring



Z6 Sextuple Quick Release Hook Systems

30-200T Standard Models
Optional Capstan / Automation / Monitoring



Z4B Quadruple Quick Release Hook Systems

30-200T Back to Back Models
Optional Capstan / Automation / Monitoring



Z6B Quadruple Quick Release Hook Systems

30-200T Back to Back Models
Optional Capstan / Automation / Monitoring



Customized Hook Assemblies

Custom Hook Configuration / Orientation
Custom Dimensions / Material / Specifications