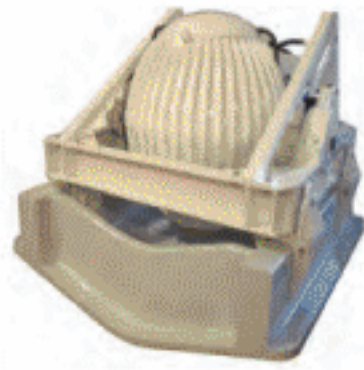


## Gyro Retrofit Steadies USN Ship

Deception Pass, an 85-ft. U.S. Navy Torpedo Weapons Retriever/Security craft (TWR-8) is a workhorse, launching and retrieving torpedoes and towing targets, among other complex operations. To improve the crew's safety and comfort, the Navy chose Seakeeper's M21000 Gyro Stabilization System which, as an unexpected added benefit, reduced the ship's fuel consumption. While smaller Seakeeper gyros have been used on new Navy vessels, this is the first retrofit project and first use of the M21000 model.



With a home port at Naval Undersea Warfare Center, Division Keyport, Washington, Deception Pass often travels to a joint test range in Canada. Sea States 3 and 4 during transit are common. "The ship's center of height is so tall, we've had roll mitigation problems," said Richard Bottalico, marine engineer for the Naval Undersea Warfare Center in Keyport.

"The initial benefits were roll mitigation and crew comfort," said Mike Allen, master of the TWR-8 Range Management & Operations Division. But he noted that when the gyro is engaged and the ship is on autopilot, the Seakeeper system reduces port-to-starboard roll and also helps keep Deception Pass on course, reducing fuel consumption.

Email: [sales@seakeeper.com](mailto:sales@seakeeper.com) • [www.seakeeper.com](http://www.seakeeper.com)

## Specialty Lubricants for Maritime, Offshore

Klüber Lubrication offers a line of speciality synthetic lubricants for specific use in the maritime and offshore industries. Klüberbio RM 2-150 is non-toxic stern tube oil for fixed-pitch and controllable-pitch propellers. Klüberbio EG 2-150 is synthetic ester oil, designed for use in thrusters and rudder propellers offering the reliability needed for these gears due to their demanding lubrication requirements. Klüberplex AG 11-462 is a white adhesive lubricant used on winches and cranes and can be used to lubricate davits and steel ropes on many types of ships, including but not limited to offshore anchor handling vessels and cruise ships.

[www.klueber.com](http://www.klueber.com)

## e7 Multi-function Displays

Raymarine launched its e7 line of multifunction displays. The e7 is the first seven-inch MFD to provide networking with up to six displays, as well as remote system control and music over Bluetooth. The e7's Wi-Fi connectivity allows boaters to stream live video from the e7 to their iPad, iPhone, or iPod Touch. This allows anyone on board to see whatever is on the e7's display – thermal video, navigation charts, radar, sonar, anything that the e7 can display – on their mobile iOS device any-

where on board. Its Bluetooth connectivity lets you control and reconfigure the e7 with the optional RCU-3 wheel-mounted or handheld remote control unit. You can also use the RCU-3 remote to control the audio playback from your iPad, iPhone, or iPod remotely so that your device is stowed safely out of the elements.



[www.raymarine.com](http://www.raymarine.com)

# NABRICO...OUTFITS THEM ALL

## WINCHES

WE OFFER A COMPLETE LINE OF DECK FITTINGS.  
CATALOG AVAILABLE.



**DF-3**  
Hand Winch



**DF-529**  
40 Ton, Low Profile,  
Manual Winch



**DF-1**  
Electric Winch

1250 Gateway Drive • Gallatin, TN 37066 • USA  
Ph: 615-442-1300 • [www.nabrico-marine.com](http://www.nabrico-marine.com) • FAX: 615-442-1313

# ANCHORS

## ANCHOR



## MARINE

CHAINS

LARGEST INVENTORY  
OF NEW & USED  
IN THE U.S.A.

FAX: 713/644-1185  
WATTS: 800/233-8014  
PHONE: 713/644-1183

P.O. BOX 58645  
HOUSTON, TX 77258

ALL TYPE  
ANCHORS & CHAIN  
ABS, LLOYDS  
GRADE 2, 3, K-4  
CHAIN & FITTINGS

[sales@anchormarinehouston.com](mailto:sales@anchormarinehouston.com)  
[www.anchormarinehouston.com](http://www.anchormarinehouston.com)



## SIGN COMPLIANCE

We can Design, Produce, & Install  
your complete sign system

We make every sign you'll ever need

[www.MarineSigns.com](http://www.MarineSigns.com)  
[maritime@MarineSigns.com](mailto:maritime@MarineSigns.com)

Call 775-832-2422



Maritime Associates, Inc.



**SLM** SUPERIOR  
LIDGERWOOD  
MUNDY

Superior-Lidgerwood-Mundy, Corp.  
Ph: (715)394-4444  
Fax: (715)394-6199  
[sales@lidgerwood.com](mailto:sales@lidgerwood.com)  
<http://www.lidgerwood.com>

- HOISTS
- CAPSTANS
- GYPSY WINCHES
- BARGE HAULING
- TOW HAULAGE

### RELIABLE EQUIPMENT FOR THE MARINE MARKETPLACE