

E-STEER



**THE MOST
COMPREHENSIVE,
ADVANCED
AND RELIABLE
MARINE STEERING SYSTEM**

TWIN DISC®

The logo is a red oval with a white border. Inside the oval, the words "TWIN DISC" are written in white, with a stylized white "C" shape between "TWIN" and "DISC". A registered trademark symbol (®) is located at the end of "DISC".

PRECISION STEERING WITH UNPARALLELED DEPENDABILITY



PHOTO CREDIT: FERRETTI YACHTS

Twin Disc's latest generation marine power steering offers precision steering control with unparalleled reliability for pleasure craft and commercial vessels. RINA-class approved, E-STEER accommodates a wide range of vessels from big to small, delivering a smooth, vibration-free driving experience with intuitive controls and comfortable and tactile sensory feedback. Steering now becomes a tactile extension of the operator's intentions.

The state-of-the-art system was designed with reliability in mind, offering robust features such as dual bus technology, adaptive steering and dynamic rudder control. E-STEER complements the build of custom pleasure and commercial craft.

A FITTING SOLUTION FOR A WIDE VARIETY OF HULLS, STEERING SYSTEMS AND DRIVING PREFERENCES

- Up to 70 m vessels
- Up to four helm stations
- Single and twin rudder
- Twin rudders — single cylinder with tie-bar
- Twin rudders — twin cylinder with electric tie-bar
- Auto-pilot interface
- Tiller
- Analog rudder gauges



WE PUT HORSEPOWER TO WORK[®]

THE TOUCH OF CLASS

ADAPTIVE STEERING

The E-STEER system provides adaptive resistance through Speed Sensing technology. Resistance is increased or decreased based on the vessel's speed, giving the operator better control over the helm and effortless, precise steering.

DYNAMIC RUDDER CONTROLS

This addition to E-STEER constantly and proportionally adjusts the range of movement based on the vessel's speed — preventing extreme and unsafe rudder angles and reducing the potential for accidents.

COLOR DISPLAY WITH INTUITIVE GRAPHICS OF RUDDER POSITION, SYSTEM OPERATING STATUS AND FAULT CONDITIONS



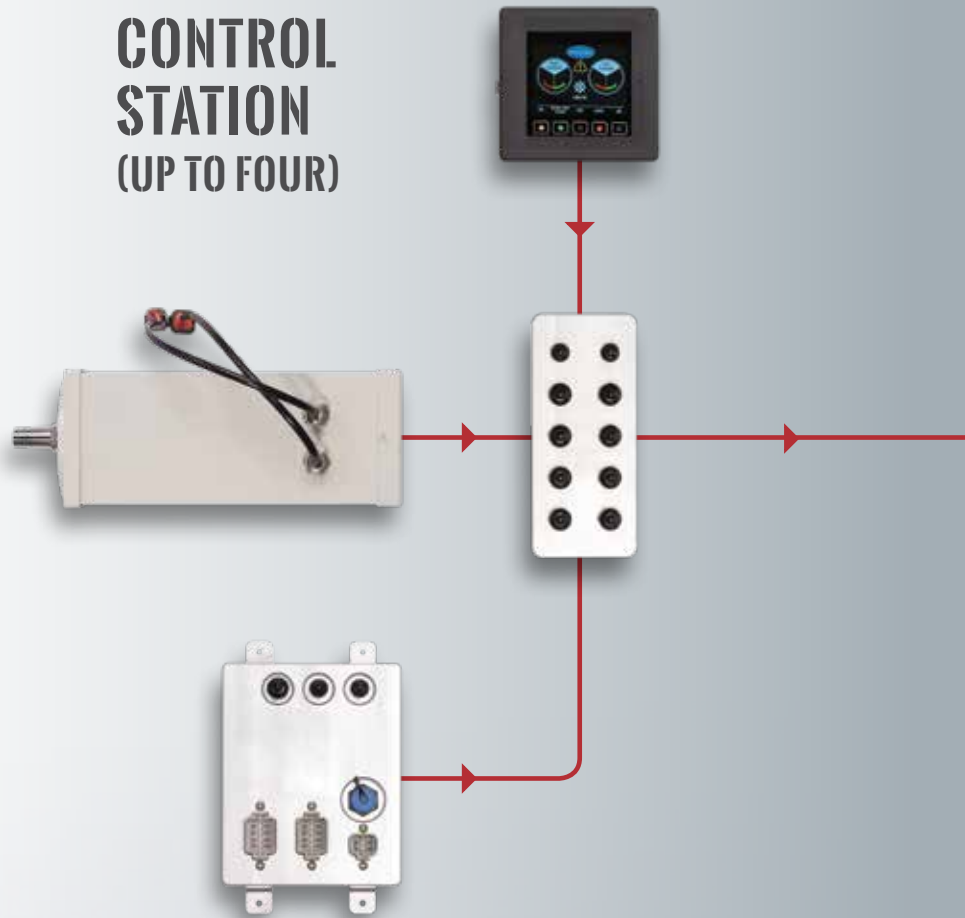
STEER2000
PHOTO CREDIT: OCEA



E-STEER

YOU CAN'T BEAT
THE SYSTEM

CONTROL
STATION
(UP TO FOUR)



EXTRAORDINARY FUNCTIONALITY WITH RELIABILITY TO MATCH

E-STEER was designed with multiple redundancies built into the power steering system, ranging from basic with dual bus technology to full redundancy. Each control has two CAN bus communication links between devices, and primary and secondary power inputs, with audible alarms for loss of either supply. The optional dual control system serves as a backup in the event of a failure, providing the end user with peace of mind.

- Redundant hydraulic power units
- Redundant processor/control units
- Backup hydraulic helm unit

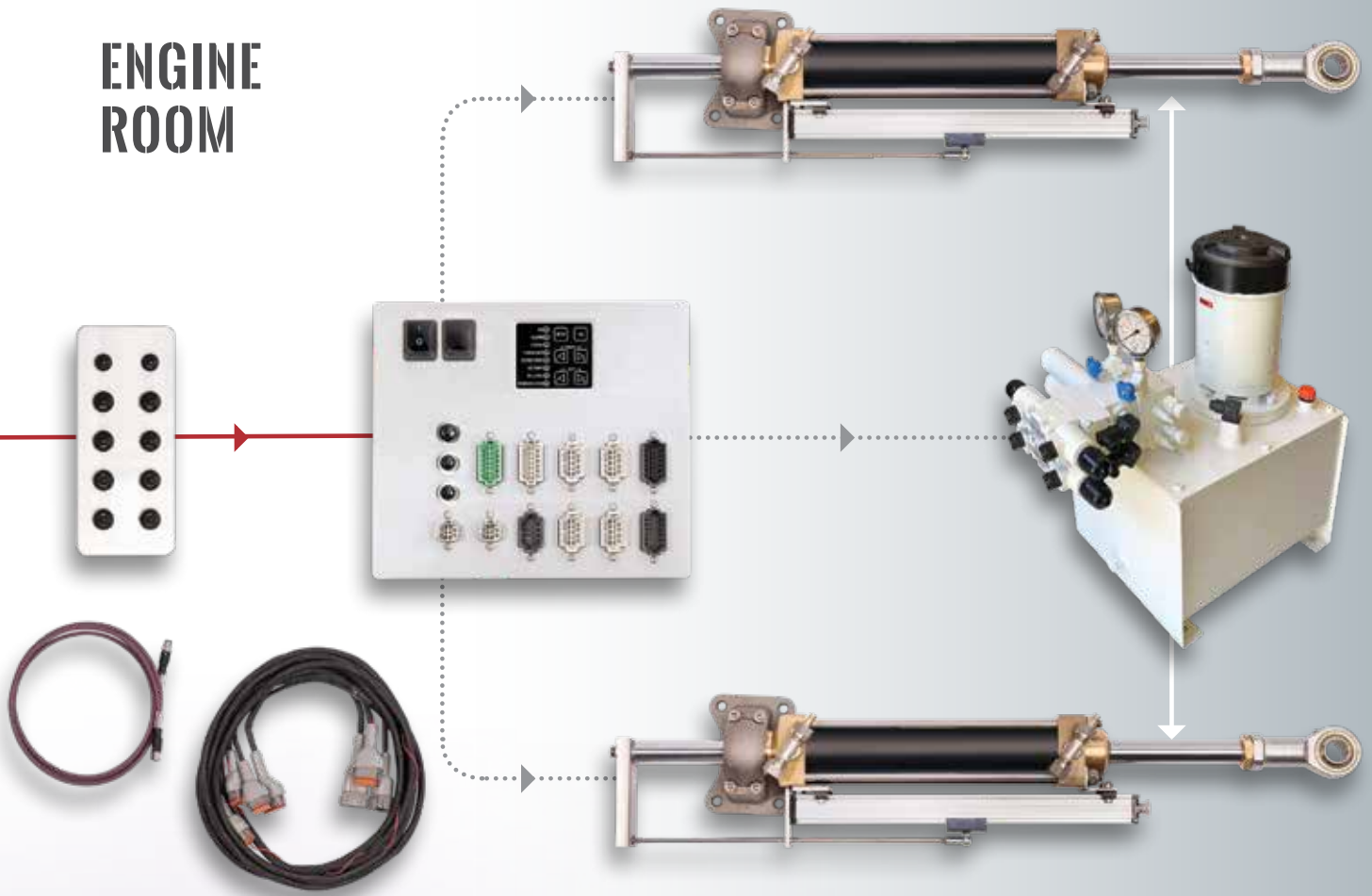
EASY AND ECONOMICAL TO INSTALL OR RETROFIT

With its previous and pioneering STEER2000 electronic steering system, Twin Disc convinced boat builders of a better, faster and more economical way to implement an advanced steering system. E-STEER allows shipyards to spend even less time installing a power steering system and more time building custom boats.

- Eliminates hydraulic lines to the helm
- Dual power inputs provide backup security
- Interfaces with auto pilot

For more information contact klaus@twindisc.com

ENGINE ROOM



CAN BUS CONNECTION ———

ELECTRIC HARNESS

HYDRAULIC CONNECTION ———





WE PUT HORSEPOWER TO WORK®

THE TWIN DISC FAMILY OF PRODUCTS



Twin Disc, Incorporated • Racine, Wisconsin 53403, U.S.A. • 262-638-4000 • www.twindisc.com

UNITED STATES OF AMERICA • AUSTRALIA • BELGIUM • CANADA • CHINA • INDIA • ITALY • NETHERLANDS • SINGAPORE • SWITZERLAND

©2018 TWIN DISC, INC • E-STEER BROCHURE 10/18