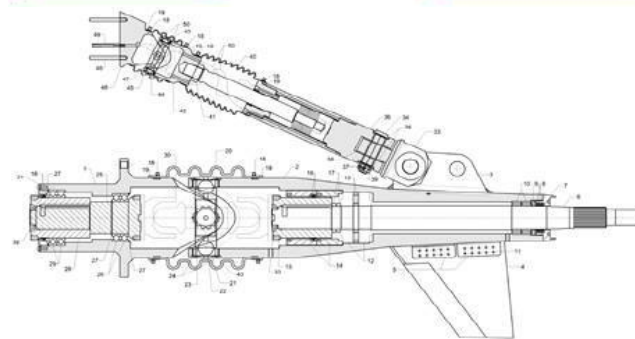




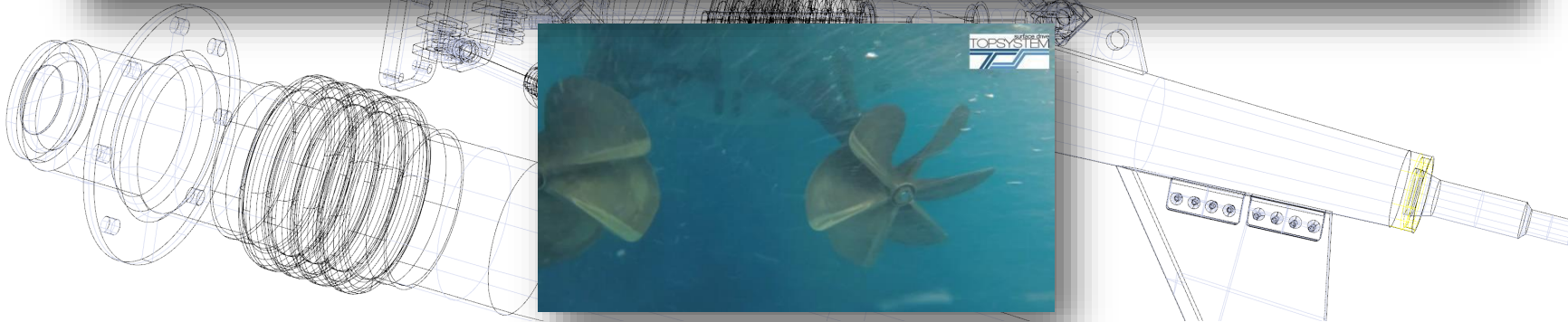
PROPULSION SYSTEM SURFACE PROPELLERS



ITALIAN INNOVATION AND TECHNOLOGY

www.topsystemdrive.com - info@topsystemdrive.com

SURFACE DRIVES



Top System was born in Latina (Italy) in 1999. Driven by their passion for boats and mechanical engineering , Vincenzo with his brother Alessio Tuccio, founded their company in their family's mechanic workshop.

In 2001 after the succesful results obtained from the first trials, Vincenzo and Alessio decided to expand their business further by producing a full range of surface drive systems.

In 2004 Top System company started a commercial partnership with SAIM MARINE company. It was at this point that the product begun to be appreciated and endorsed by several famous boat builders.

In 2006 Top System worked for Pershing yacht on Pershing 50' (to solve problems encountered with concurrent systems)

In 2008 Top System started a new production in Tunisia, that is where our main workshop is located.

In 2009 Top System produced TS 120: the biggest surface drive

In 2010 Top System started supplying military naval departments

In 2014 Pershing started his production with TS Drive on P70.Mechatronic technology development.

In 2015 Pershing put TS Drives on all range of Pershing boats.

In 2016 TOP SYSTEM AMERICA INC. was born

In 2017 Easy Set revolutionary system with joystick without tie bar

In 2018 NEW RUDDER BOX SYSTEM

In 2019 NEW OIL HOSES, TRIM FLAP BOX

In 2020 NEW CYLINDERS WITH INTERNAL SENSORS

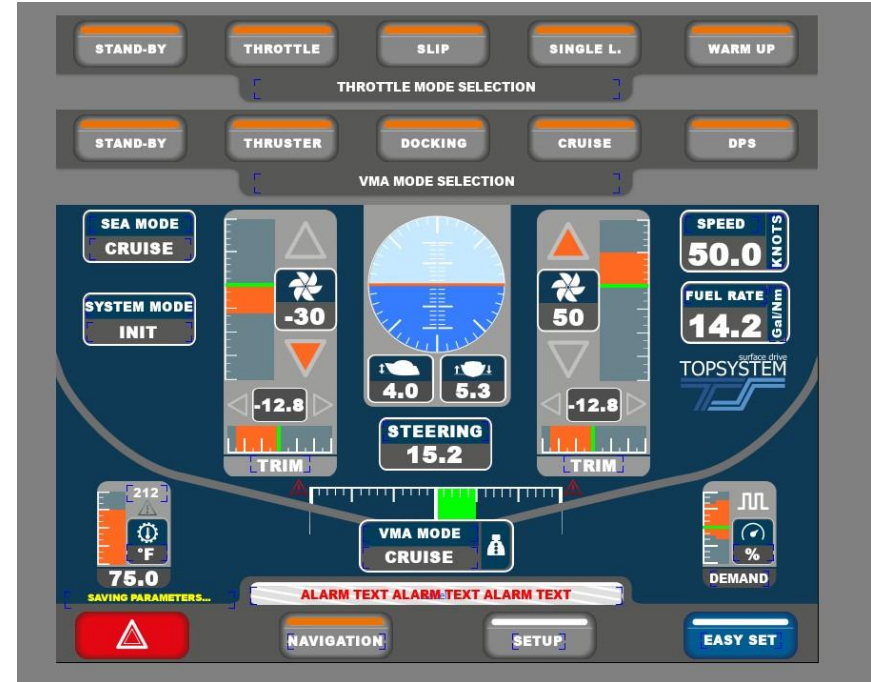




Model	Max torque Input NM Pleasure	Max torque Input NM Duty
TS 40	1.400	1.100
TS 45	2.000	1.600
TS/TT 50	1.960	2.800
TS 55	2.600	2.000
TS 65	4.300	3.500
TS 75	7.300	5.500
TS 80	11.000	7.000
TS 85	13.000	9.600
TS 95	17.000	11.000
TS 100	20.500	14.000
TS 110	23.000	19.000
TS 120	30.000	24.000
TS 150	41.500	33.000

Functions:

- control of trim tabs and shaft trimming
- steering assistance
- roll stabilization
- steering limitation at high speed
- maneuvering assistance
- shaft parking
- engine data monitoring
- aft platform control

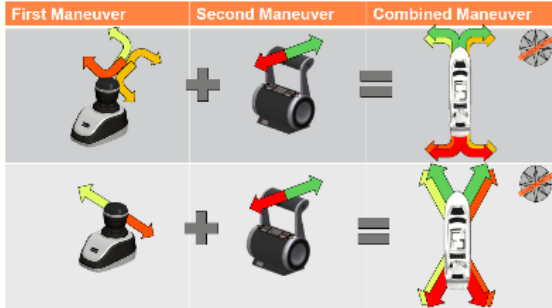


ICS - INTEGRATED CONTROL SYSTEM MAREX

Marex OS 3D

AVENTICS®

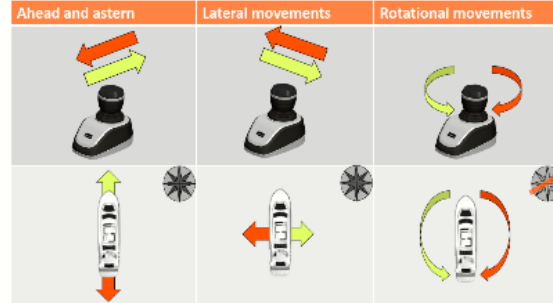
Thruster mode – manual control with paired lever



Marex OS 3D

AVENTICS®

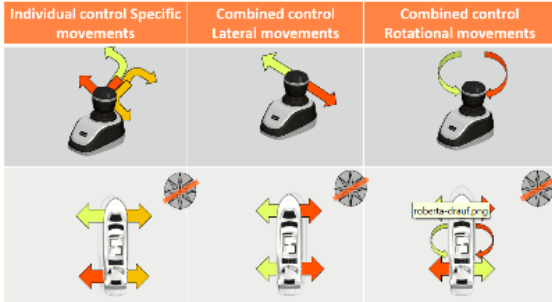
3D mode - easy maneuver



Marex OS 3D

AVENTICS®

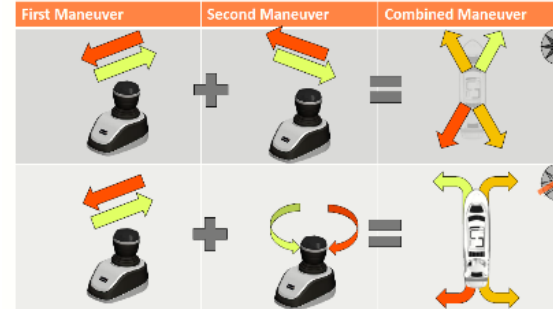
Thruster mode – manual thruster control



Marex OS 3D

AVENTICS®

3D mode – complex maneuver



Marex 3D

AVENTICS®

Dynamic Positioning Features

Hold Modes	Heading	Position	Requirements	Use Cases/ Benefits
Heading Mode 	Fixed	Floating According to wind and current	Included: New joystick type531 and compass needs to be installed	- Sports Fishing - Keep the view to sunset, skyline, etc. - ...
Hold Position 	Fixed	Fixed	DP-module incl. GPS	- Waiting at watergates, fuel stations, etc. - ...
Virtual Anchoring 	„Natural“ According to wind and current	Fixed range	DP-module incl. GPS	- Keeping position with optimized fuel consumption and noise



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