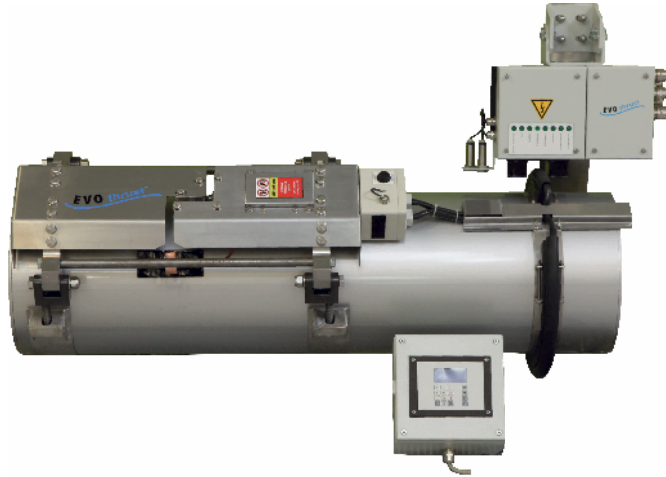




## THRUST AND TORQUE MEASUREMENT SYSTEM (EVOthrust®)



...much more than a simple  
shaft-power-system!



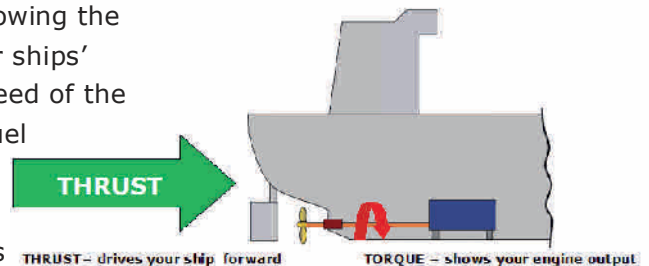
MADE  
IN  
GERMANY

### Optimise Propulsion Efficiency by Measuring both Thrust & Torque

Conventional shaft power systems measure only the torque. EVOthrust® is a system which gives you much more than just the engine power output. The truth is that knowing the engine torque is not enough. The most important question for ships' propulsion is: What engine power is required for a specific speed of the ship or which settings are needed in order to attain optimal fuel consumption?

The effect of a propulsion system should be to convert torque into thrust as completely as possible. Only the thrust provides the power to overcome the resistance of the ship in the water.

Why not measure the most important factor : The Thrust with the EVOthrust® Torque and Thrust measurement system. Fuel is expensive and emissions are bad for the environment.



### EVOthrust® General information

- ⇒ Aided by German state as environmental innovation
- ⇒ Revolutionary HD sensor technology (No strain gauges !)
- ⇒ High-Definition thrust measurement
- ⇒ High-Definition torque measurement
- ⇒ Contactless transmission of energy
- ⇒ Telemetric data transfer
- ⇒ No wear and tear
- ⇒ Heavy duty design
- ⇒ Supports slow-steaming
- ⇒ For all shaft diameters (>300mm)
- ⇒ Supports energy docking
- ⇒ Shows Thrust, Torque, RPM, Power, propulsion efficiency continuously



**Your reliable partner for marine measuring instruments and service**



TX Marine Messsysteme GmbH

Sandkamp 18  
D-25368 Kiebitzreihe

Tel.: +49 (0) 4121 / 491 6890 E-Mail: [office@txmarine.com](mailto:office@txmarine.com)

Fax: +49 (0) 4121 / 463 48 74 Internet: [www.txmarine.com](http://www.txmarine.com)



## THRUST AND TORQUE MEASUREMENT SYSTEM (EVOthrust®)

### Technical data

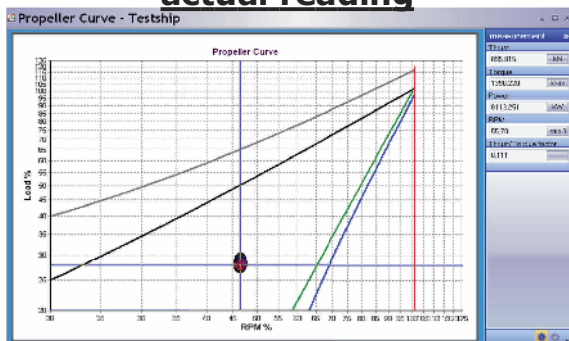
Supply Voltage:	90/240 VAC, 50-60 Hz, 5A
Temperature:	0- +60°C
Shaft diameter:	300mm - 1000mm
Sensor Measuring Accuracy:	< 0,1% fs
RPM Measuring:	Inductive
Speed range:	10 to 300 rpm
Torque Measurement:	High definition sensor, contactless
Thrust Measurement:	High definition sensor, contactless
Signal Transmission:	Telemetric Frequency "g1" 868, 30 MHz, Chanel 106
Performance Data Output:	4-20mA signals, RS485, USB optional
Pulse Input:	Rpm pickups / SLOC / SFOC
Alarm outputs:	Adjustable overload alarm, system failure

EVOthrust® offers more than simply displaying the data on a local PC. It comes with powerful MS Windows-based software incl. a reporting function from ship to shore. A history viewer for comparing measurement before and after dry-docking or engine overhaul.

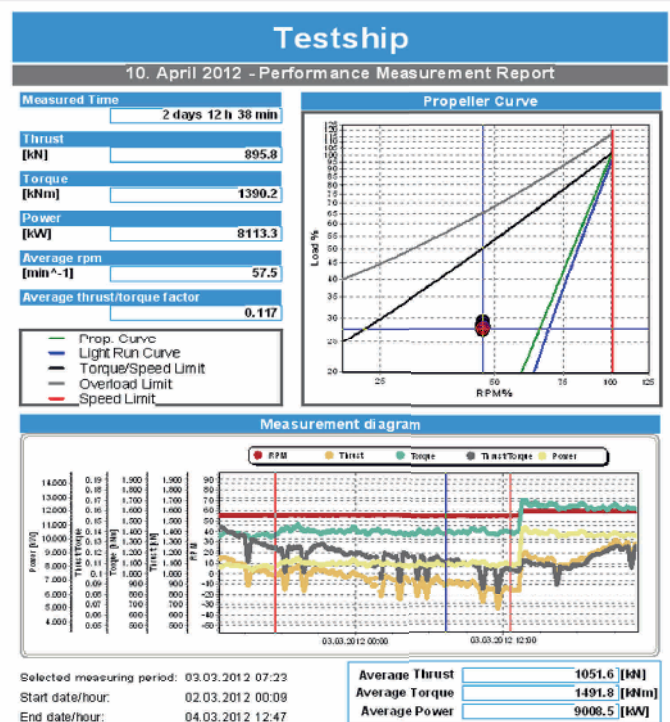
### History viewer



### Propeller curve diagram incl. actual reading



### Report function



Your reliable partner for marine measuring instruments and service



TX Marine Messsysteme GmbH

Sandkamp 18

D-25368 Kiebitzreihe

Tel.: +49 (0) 4121 / 491 6890 E-Mail: office@txmarine.com

Fax: +49 (0) 4121 / 463 48 74 Internet: www.txmarine.com