

Ortlinghaus

COMPact



For more than 75 years, we have specialized in marine technology. Today we offer the complete product range from plates, clutches, and clutch systems in ship drives to brakes in deck machinery.

We are the only manufacturer that combines many years of highly successful experience in the design of clutches with the inhouse production of plate linings. The quality of Ortlinghaus has an outstanding reputation throughout the world – and we feel obliged to maintain it. Together with our customers, we develop individual solutions that stand out as a result of innovative capacity and superior engineering.

With **COMP***act* – our shifting clutch system – we have taken another step toward the future. The hydraulically actuated, wetrunning clutch unit with flange connection, integrated oil supply and hydraulic control can be installed on a ship as a ready-to-use compact unit.

The **COMP***act* functions as a connecting unit between the engine and the rudder propeller in working ships, tugboats, supply ships, yachts, passenger ships, and ferries.

COMP*act* impresses with a series of technical innovations and advantages, which make it efficient and economical to use.

Ortlinghaus

Founded in: 1898

Employees: > 550

Subsidiaries: Ortlinghaus (U.K.) Ltd. / England

Ortlinghaus France / France Ortlinghaus AG / Switzerland

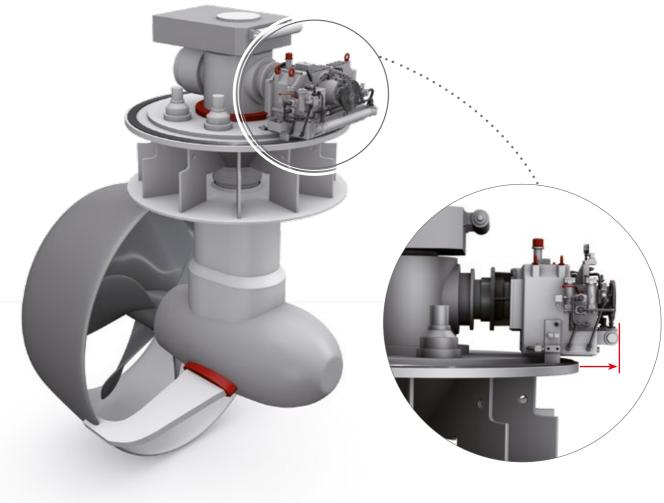
Ortlinghaus Drive Technology (Shanghai) Co., Ltd/China Ortlinghaus Drive Technology India Pvt.Ltd./India

OOO "Ortlinghaus RUS"/Russia

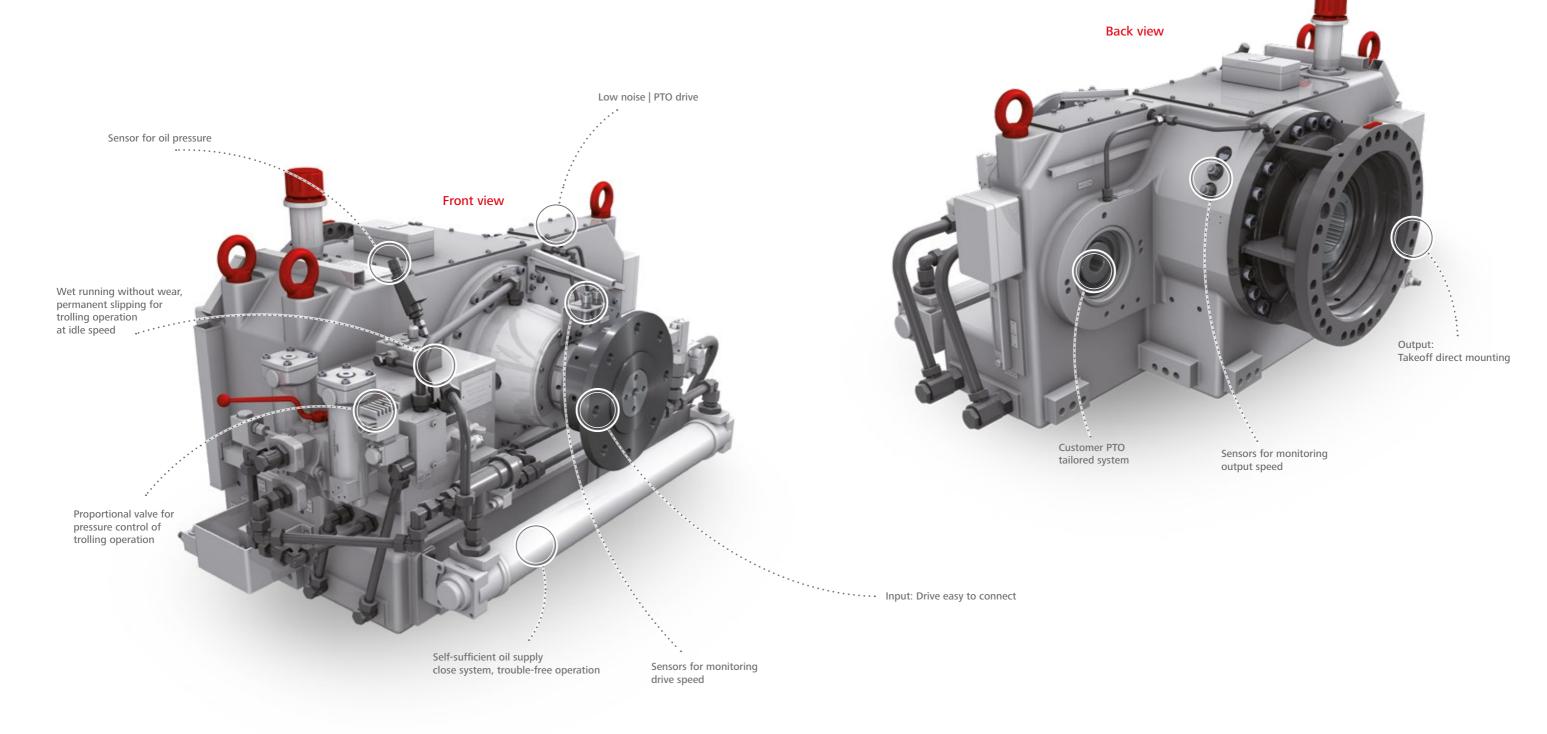
Manufacturing: Wermelskirchen / Germany

Gams / Switzerland Shanghai / China

Sales: Worldwide via agencies

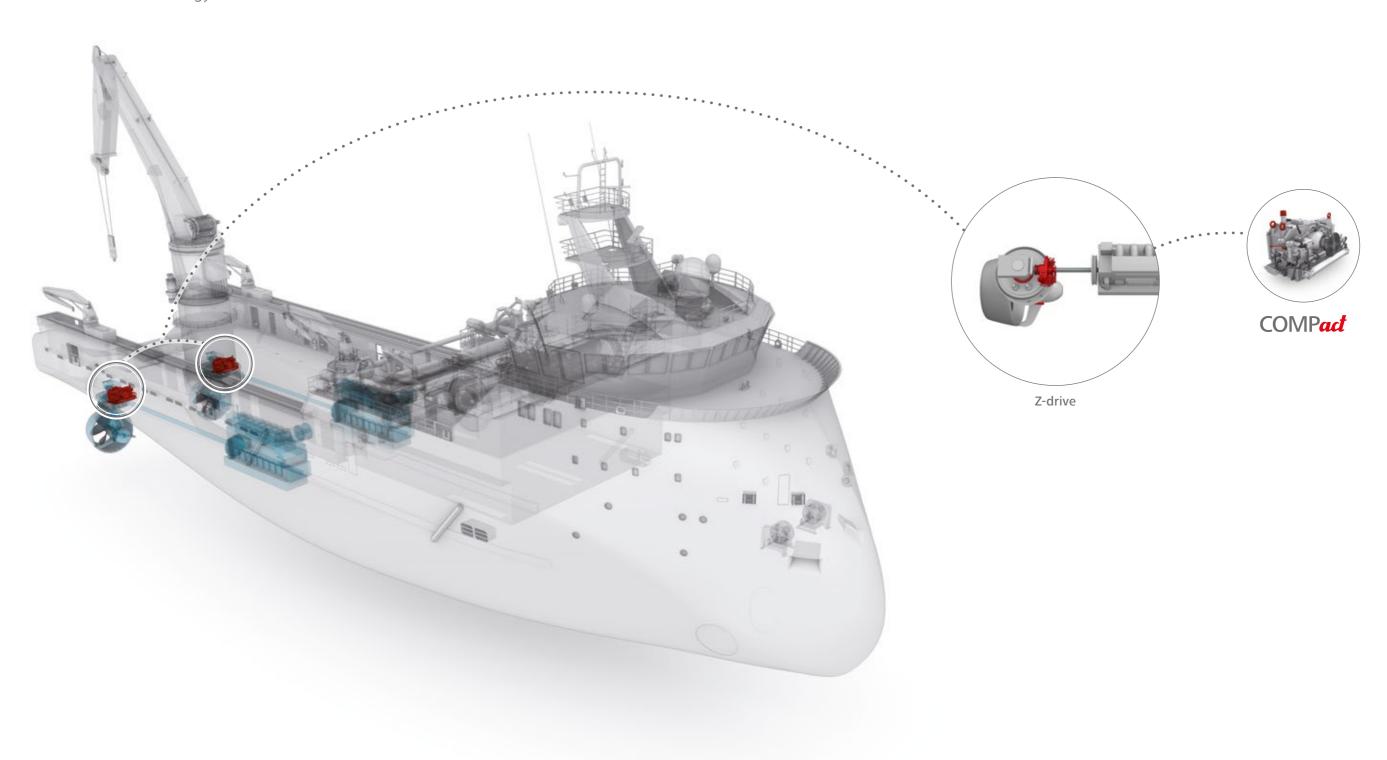


COMP*act*



Drive train concept.

| Conventional drive technology with COMPact





Torque: 13,500-24,670 Nm



Speed: 1,200 - 1,800 rpm



Power: 2,500-3,100 kW



Ratio: 1,4-2,6



PTO-Power: 40-70 kW

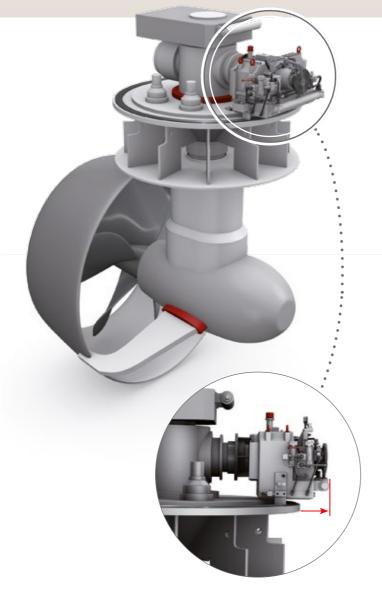
COMPact

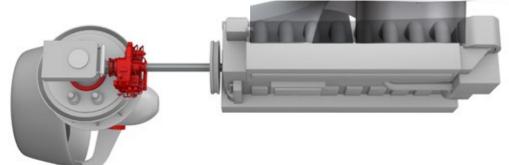
With **COMP***act* – our shifting clutch system – we have taken another step toward the future. The hydraulically actuated, wetrunning clutch unit with flange connection, integrated oil supply, and hydraulic control can be installed on a ship as a ready-to-use compact unit.

The **COMP***act* functions as a connecting unit between the engine and the rudder propeller in working ships, tugboats, supply ships, yachts, passenger ships, and ferries.

The **COMP***act* can be used for situations when permanent slipping at idle speed is neccessary. Further the clutch system has a power take off which can be used for a hydraulic pump for example. **COMP***act* impresses with a series of technical innovations and advantages, which make it efficient and economical to use.

	Technical data COMPact		
	Series	66	72
Power _{max.}	kw	2,500	3,100
Speed _{max.}	1/min	1,800	1,200
Torque engine _{max.}	Nm	13,500	24,670
Operating pressure	bar	25	27
P/n	kW/min	1,4	2,6
PTO-Power	kW	40	70





n Engine / idle speed: 500-750 rpm

Output speed: 750-100 rpm

Differential speed: 650-0 rpm

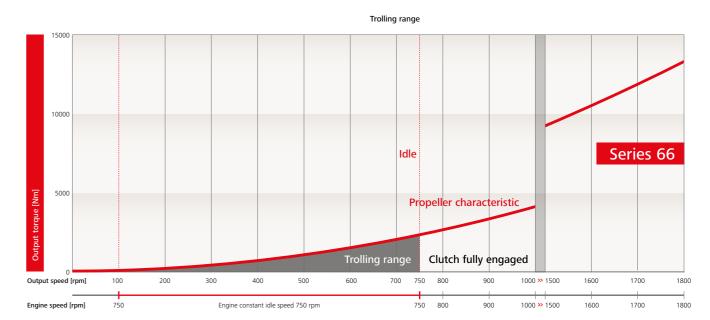
Cooling Power: 24-100 kW

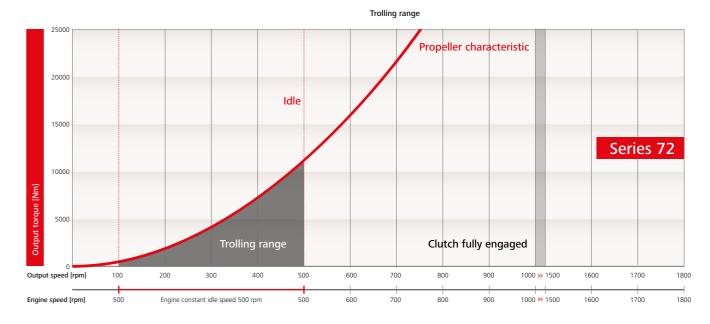
Max. water temperature: 38 °C

Min. water flow: 3,5 m³/h

Trolling operation COMPact

The trolling mode allows very fine adjustment of the propeller speed due to the slipping capabilities of the **COMP***act*. The wet running system ensures wear-free operation and trolling within defined technical limits. The minimum output speed while slipping is 100 rpm. During trolling operation the output speed covers a range of 750 to 100 rpm while the engine runs constantly at idle speed. From engine idle speed to maximum speed the clutch is fully engaged.







Auxiliary Output

COMP*act*'s design facilitates the simple assembly of an additional auxiliary output, e.g. for a variable pump for rotating the rudder propeller.

Noise

The operation of **COMP***act* generates little noise. The auxiliary output takes place by way of a chain drive and is surprisingly quiet, according to feedback from our customers.

The Essential Advantages.

Efficiency

COMP*act* is a sophisticated end-to-end system, which, for example, allows complete installation of the rudder propellers in to the ship.



Wear-free system

The wet-running sinter lining of the clutch ensures wear-free operation and problem-free trolling (within defined technical limits).



Integrated Sensors

gearbox.

Built-in sensors produce all necessary signals for operation and monitoring, like input/output speed, temperature and pressure setup: This eliminates the need to install additional sensors and makes overall installation much easier.

defined connection dimensions in the take off

interfaces guarantee optimal connection to the



Integrated Oil Supply

The supply of pressure oil and cooling oil is integrated with a built-in oil tank. As a result, no external controls are required and separate pumps, valves, and heat exchangers are made superfluous.



Performance range

Broad range power range for various ship types trolling operation: Permanent slipping at idle speed for trolling operation.



Easy Assembly

This self-sufficient system with integrated cooling oil, circuit tank, monitoring allows a plugand-play operation. Defined drive interfaces enable simple assembly of the drive shaft through adjusted connection dimensions. In addition,

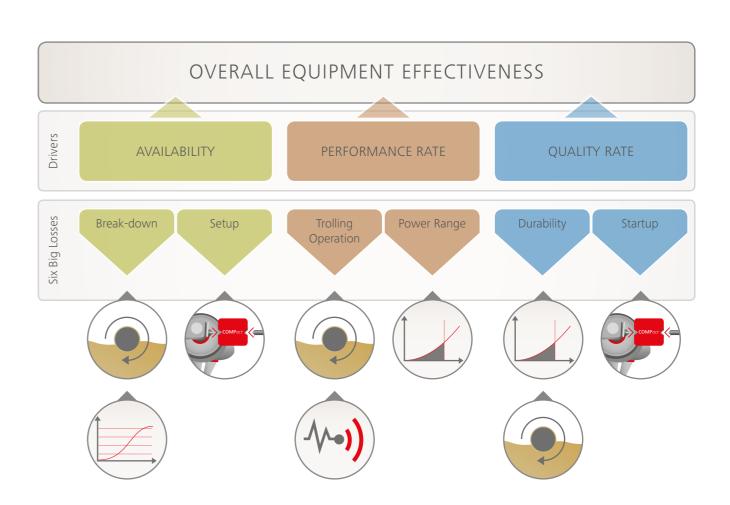


Durability

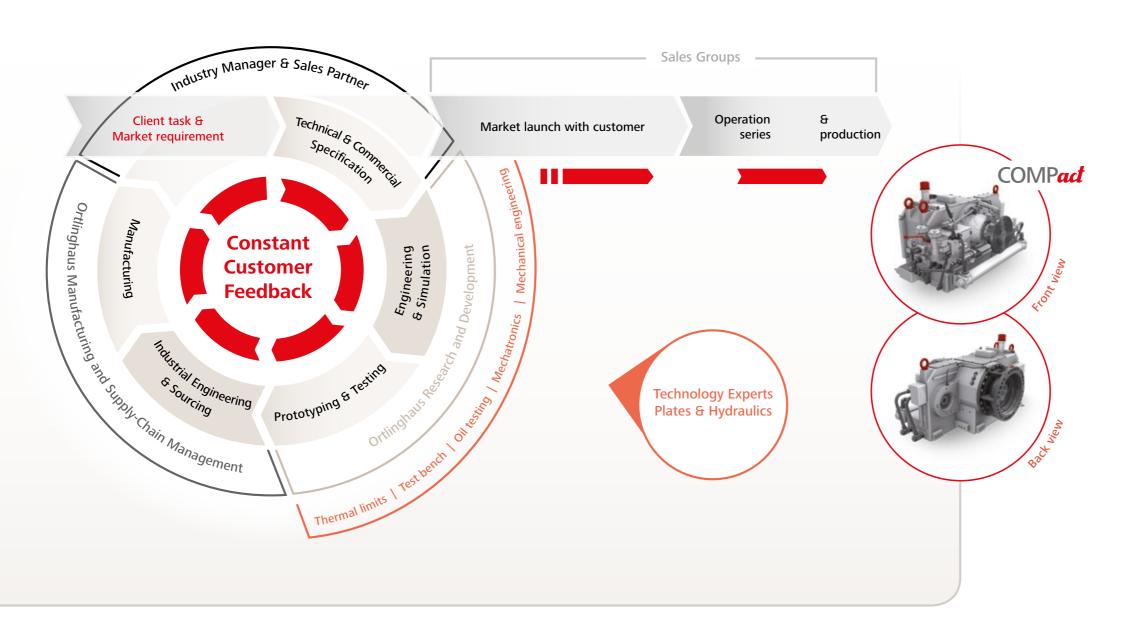
The sum of all these features is a robust system and a prolonged lifetime due the to systems design coming from one developer.

COMP*act* is a system that can directly and positively influence the main factors of your equipment effectiveness. It achieves this by reducing or avoiding the main productivity losses of standard

products. This in turn results in a higher equipment availability, an increased performance rate and an improved quality rate.



Ortlinghaus innovations process.



Product development

Practical experience and cumulative expertise from 75 years in marine technology are the foundation for our success. **COMP***act* is a new product development that needed less than a year to advance from conception to the start of production. It is the result of the close collaboration with a customer, Ortlinghaus branch management, and the R&D department.

Providing pressure and cooling oil is an integral part of product development. This dispenses with the need for external hydraulic actuators including piping and separate pumps and valves.

Another major factor is our high degree of integrated value creation: Manufacturing all of the relevant components of **COMP***act* ourselves significantly expedites the development process.





Quality, Health, Safety and Environment.

An integrated management system (IMS) that takes into account all processes is the basis for Ortlinghaus' corporate policy. Quality, occupational health and safety, and environmental protection play crucial roles for our company.

We have analyzed and documented all relevant processes in the value chain. Our IMS is based on the resulting summary of process descriptions, plans, procedures and guidelines as well as the Ortlinghaus Management Manual.

The management system is the basis for all business activities in our company and for our relationship with our customers. It ensures that all customer-oriented product and manufacturing specifications are reflected in elaborate instructions regarding quality assurance and quality control and that they comply with the relevant operating instructions and quality standards of the Ortlinghaus Management System.

Our quality management system is based on the ISO 9001 standard. In the area of environmental protection, we are certified at the Wermelskirchen site according to ISO 14001. In energy management, we are certified according to ISO 50001.

Ortlinghaus assigns the highest priority to occupational health and safety. We live up to our principles in this area in our daily conduct. At Wermelskirchen, we are currently working toward ISO 18001 certification.

Our goal is to minimize the impact of our activities on the environment. For this reason, all employees of the Ortlinghaus Group have committed themselves to complying with essential environmental guidelines. In addition, all our processes in Wermelskirchen are certified accordingly.

We are convinced that long-term success can be achieved only through the right balance of economic, ecological and social conduct.

We certify our products according to your specifications (e.g. DNV·GL, Lloyds Register and CCS).



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