

## Firefighting

## Pinpoint accuracy in any situation

The Prop.act HD is primarily used for applications with fire-fighting systems. Here, the firefighting pump can be operated by the main diesel engine while the drive remains active to hold the position at low propeller rotation.

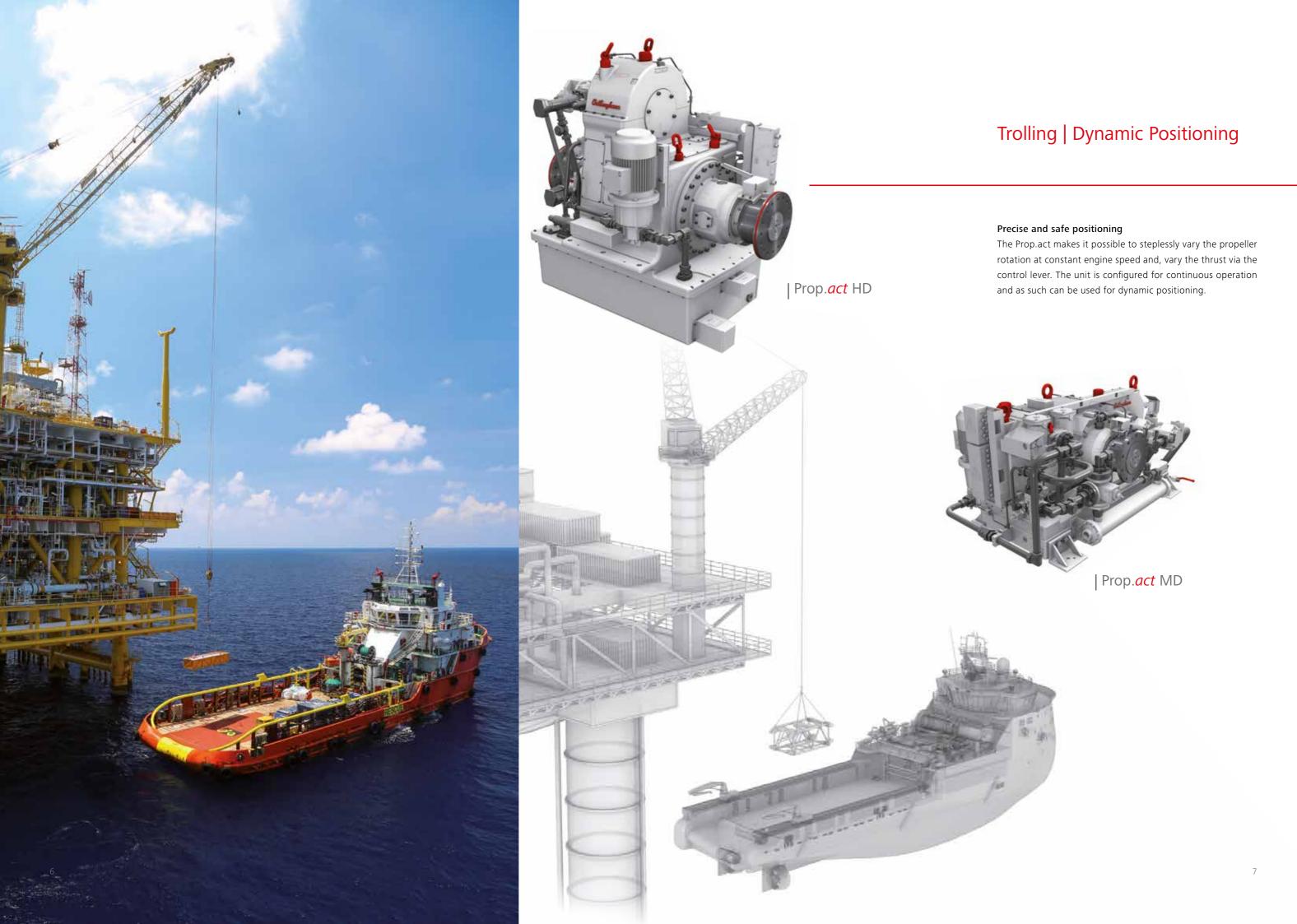
## | Prop.*act* HD

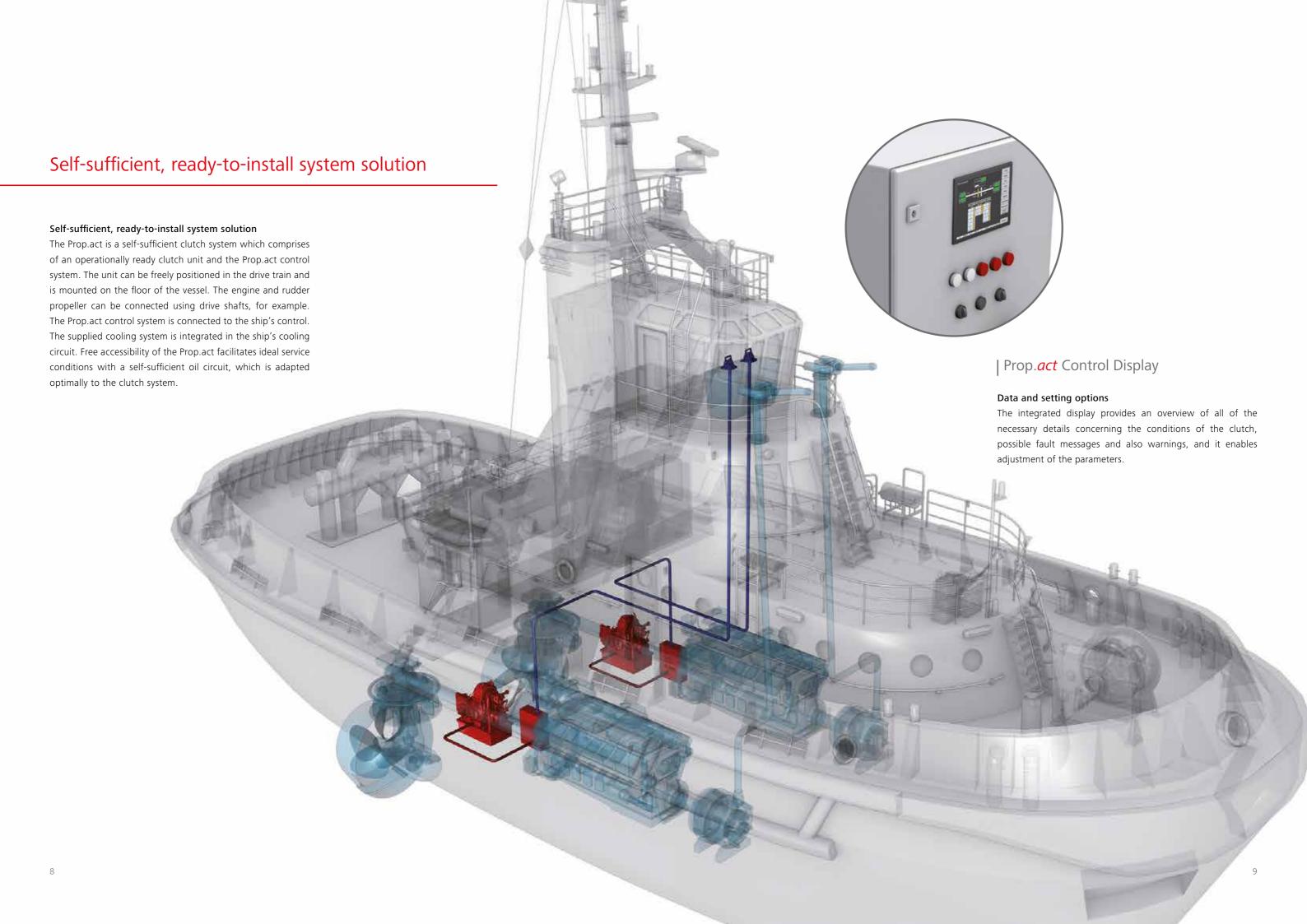
## Variation of propeller rotation at nominal speed

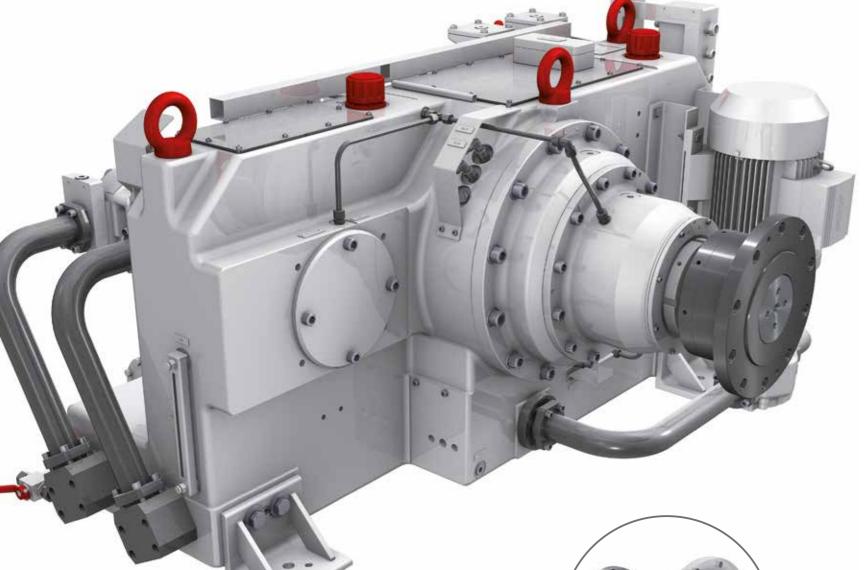
- Holding position (DP) at nominal speed of diesel engine counteracts backlash from firefighting water cannons
- Operation of firefighting pump via main diesel engine for effective deployment of firefighting pumps combined with optimal use of space
- Full firefighting pump output and simultaneous low propeller rotation for holding position via drive system
- Reliable operation of slipping clutch across the whole speed range with aid of system control logic











## Active brake

#### As shaft brake and for extremely precise variation of propeller rotation

As an option, the Prop.act is offered with a brake that provides two functions:

- As classic shaft brake for holding the propeller and thereby securing the propeller position to prevent unintended rotation. The braking torque is set at 50 % of the engines' nominal torque. Idling torque from the clutch is suppressed.
- 2. For variation of propeller rotational speed:
- The trolling range is enhanced.

  By applying a low braking torque, the propeller speed is regulated from zero up to the desired speed.



#### Additional power supply

The Prop.act is equipped with a power take-off (PTO). The customer can use the PTO, for example, to drive the pump for propeller adjustment.

## | Prop.*act* control

#### Simple integration into vessel control system

We offer the Prop.act as a package complete with a control system. In other words: Our customers do not have to bother with programming or actuation of the components and can completely rely on Ortlinghaus to do this. Integration of our controls in the vessel control system is straightforward, and described on provided integration sheet.



## | Electric auxiliary pump

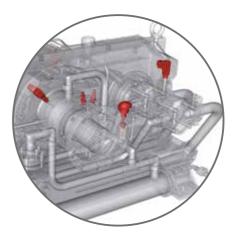
#### Safe towing also at high sea

Ortlinghaus offers an electric pump that can be run independently of the diesel engine. As desired for towing manoeuvres, for example, the shaft brake can also be used with this pump while the diesel engine is switched off. Clutch operation can be maintained even if the engine speed is lowered below a critical point.

## Sensors

#### Permanent condition monitoring prevents overload

The availability of our units is secured through permanent condition monitoring of all of the relevant components. Monitoring of the units is achieved by recording the speeds, pressures and temperatures. If the permissible parameters are exceeded, our control system prevents an overload.





## **Full Propeller Control**

#### Extreme continuous slipping

The possibility of continuous slipping makes safe manoeuvring possible even under rough sea conditions and challenging escort manoeuvres.



## | Sturdy construction

The sturdy construction of the unit offers a high level of operational reliability.

#### Simple integration

Straightforward integration of the Prop.act in the drive train is facilitated by free positioning in the drive train between the rudder propeller and engine, together with the control system supplied as an option and the dedicated cooling system.



## Trolling to speeds close to 0

The slipping function of the clutch in combination with the additional brake makes it possible to vary the propeller speed to almost zero.

## Safety

The slipping function offers a high level of safety against stalling of the diesel engine. The captain therefore always has a secure drive system at his disposal, allowing fast reactions to loss of drive or control of escorted ships.



## Costs

The combination of Prop.act and rudder propeller drive with fixed pitch propeller (FPP) is a cost-effective alternative to controllable pitch propeller (CPP) drives.

### Long service life

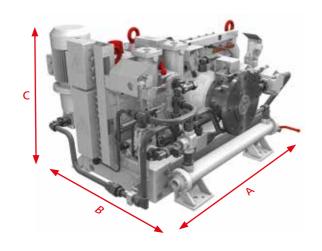
If deployed correctly, the unit achieves a main service interval of at least 40,000 operating hours.

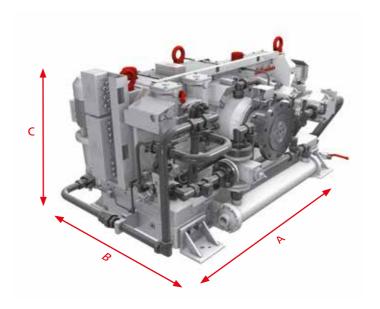


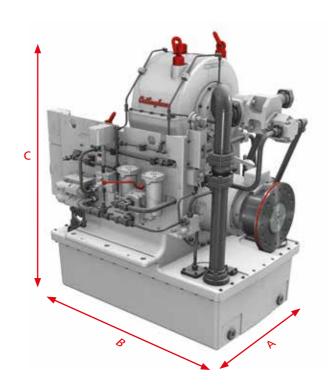
#### | Compact design

This type of installation saves space compared with separate firefighting drives.

## Prop.act data



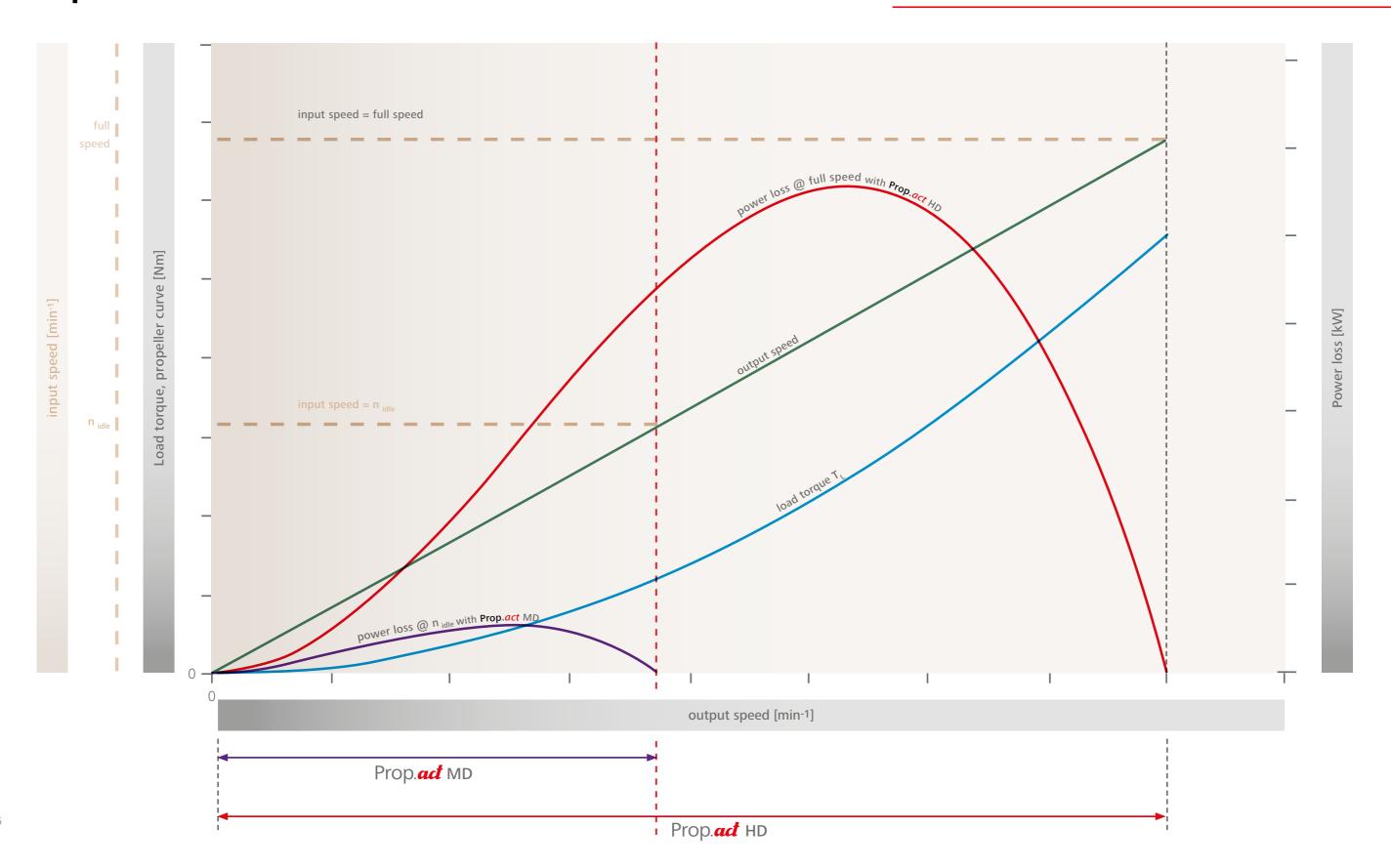




	Prop. <b>act</b>		
	66 MD	72 MD	75 HD
T <sub>Mot, nenn</sub>	15.750 Nm	25.000 Nm	35.650 Nm
P / n - Factor	1,65	2,62	3,7
n <sub>nenn, max.</sub> - SL	1.800 min <sup>-1</sup>	1.800 min <sup>-1</sup>	1.800 min <sup>-1</sup>
n <sub>nenn, max.</sub> - ML	1.400 min <sup>-1</sup>	1.400 min <sup>-1</sup>	1.000 min <sup>-1</sup>
n <sub>nenn, max.</sub> - LL	1.000 min <sup>-1</sup>	1.000 min <sup>-1</sup>	750 min <sup>-1</sup>
Power PTO	40 kW	60 kW	60 kW
Cooling capacity *)	45 kW	90 kW	450 kW
	V <sub>H2O</sub> =3,5m <sup>3</sup> /h; T <sub>H2O</sub> =38°C	$V_{H2O} = 10 \text{m}^3 / \text{h}; T_{H2O} = 38^{\circ} \text{C}$	V <sub>H2O</sub> =27m³/h; T <sub>H2O</sub> =38°C
Tank oil volume	120	190	450
А	1.370 mm	1.740 mm	1.450 mm
В	1.230 mm	1.440 mm	1.930 mm
C	820 mm	960 mm	1.720 mm
Weight <sup>1)</sup>	~1.250 kg	~2.000 kg	~3.900 kg
Weight <sup>2)</sup>	~1.450 kg	~2.250 kg	~4.250 kg

<sup>\*)</sup> in dependence of V  $_{\rm H2O}$  and T  $_{\rm H2O,EIN}$ 1) without oil filling, without stand-by pump/brake 2) without oil filling, with stand-by pump/brake

# Prop.act



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