



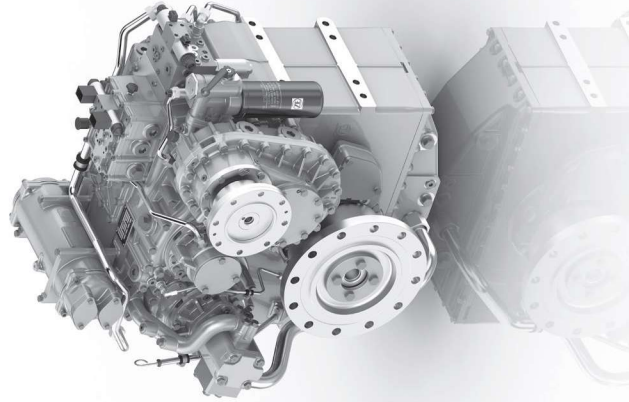
# Silent cruising

ZF 3300 PTI hybrid gearbox



# Combining the best of two worlds

The ZF 3300 PTI transmission brings the latest in hybrid-ready propulsion technology, allowing for smooth and silent cruising. Designed to be powered through diesel engine input, or via electric motor through a Power Take In (PTI), this marine transmission provides a hybrid ready solution suitable for all types of high speed pleasure and commercial marine applications.



## ZF 3300 PTI specifications and features

- Flexibility to be integrated into a wide variety of hybrid vessel propulsion solutions
- Rated up to 1940 kW (2600 hp) at 2450 rpm
- Gear ratios from 3.00 to 5.00
- Incl. PTI ratio with spur gear up to 16.25
- Configurable to any application in the appropriate power range, for both super yachts and commercial vessels
- Available with a whole host of optional accessories like Top, Live, and Pump PTO compatibility, as well as optional trailing pumps
- The ZF 3300 PTI, like all ZF marine transmissions, can be certified to all major classification societies

HOME by Heesen Yachts is a 50 meter high performance, supremely comfortable displacement yacht with reduced environmental impact. The hybrid propulsion operates near-silent in electric mode. Moreover, HOME achieves lower fuel consumption and a higher top speed when the diesel engines and electric motors are combined.

Fotos: HEESSEN

## Comfort features



With ZF SuperShift® the ZF 3300 PTI features the latest shifting and engagement technology (Super-Shift2) providing nearly instantaneous gear engagement while increasing on comfort onboard.

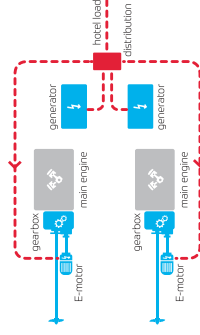


The ZF Autotroll® trolling feature is available as well. It is designed for continuous operation while docking, when station keeping, or in dynamic positioning where the vessel requires a propeller speed below engine idle.

## Operation modes

Engines can be operated in four different modes depending on priorities.

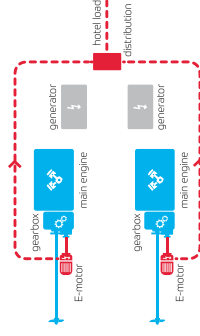
### HYBRID MODE



#### Electric propulsion only

- Main generators on / main engines off
- E-Motors providing mechanical power via PTI (Power Take In) drive of ZF 3300 PTI gearboxes to propeller shafts
- Speed up to 9 knots

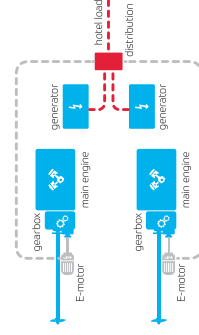
### ECONOMIC MODE



#### Diesel propulsion

- Main generators off / main engines on
- E-Motors providing electrical power (hotel load) via PTI drive of ZF 3300 PTI gearboxes to distribution box
- Speed up to 9 to 12 knots

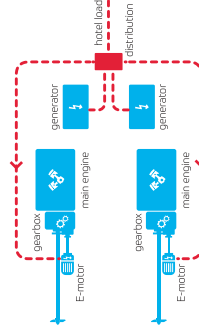
### CRUISING MODE



#### Diesel propulsion

- Main generators on / main engines on
- E-Motors off / PTI drives of ZF 3300 PTI gearboxes disengaged
- Speed up to 12 to 15 knots

### BOOST MODE



#### Diesel and electric propulsion

- Main generators on / main engines on
- E-Motors providing mechanical power via PTI (Power Take In) drive of ZF 3300 PTI gearboxes to propeller shafts
- Speed up to 16.3 knots



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