

ADS South Strain States Strain Strain

Marine Propulsion - Industrial Drive Lines - Electronics



Multiple Engines – One propulsion shaft;

thinks to think about.



Overview

1. Function of a reversing gearbox

- 2. EURO VI and direct drive
- 3. Mechanical hybrid solutions
- 4. Multiple engines One propulsion shaft
- 5. Things to think about?







1. Functions of a reversing reduction gearbox

- Transmitting and increasing torque
- Reducing engine R.P.M.
- Clutching (C.P.) propeller
- Reversing direction of rotation of propeller (ahead/astern)
- Transferring thrust to the foundation vessel







2. Conventional drive line



Propeller Reversing Main gearbox engine



3. Hybrid, various configurations



PTI

Conventional FlexaDrive™/ FlexaGen™ installation showing multiple input/output options



PTI for thrusters





Inline hybrid



4.1. Twin in – Single out





- Two Euro VI diesel engines up to 2x 400 kW @ 1800 rpm
- One or two in operation
- Ratio's up to 6:1
 - Efficiency: 97% (95% with 1 engine in operation)



4.2. Twin in – Single out





- Two Euro VI diesel engines up to 2x 560 kW @ 1800 rpm
- One or two in operation
- Ratio's up to 6,3:1
- Rendement: 97% (95% bij 1 motor bedrijf)









4.3. Tripple in – Single out



- Three Euro VI diesel engines up to 3x 375 kW @ 1800 rpm
- One, two or three engines in operation
- Ratio's up to 6:1
- Rendement: 95%



5. Thinks to think about





THE HYBRID SOLUTION OF ADS van STIGT DRIVEN BY OUR NATURE



Thank you for your attention.







