

# NO LOSS AC DRIVES

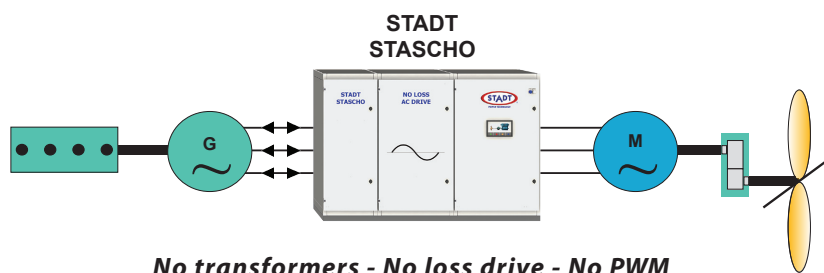
## For gas-or diesel-electric propulsion



POWER TECHNOLOGY  
www.stadt.no

### STADT - Technology for the future

The sustainable technology has proved huge advantages compared to traditional PWM-technology. STADT STASCHO has no electric losses and eliminates the electric disturbances. This technology is perfect for full-electric ships.



### For civil and military vessels

Through the development of the STASCHO, STADT has put great effort in designing a converter system that can serve without major maintenance for more than 25 years. This has been possible by eliminating some of the components with limited life time typically found in PWM drives.

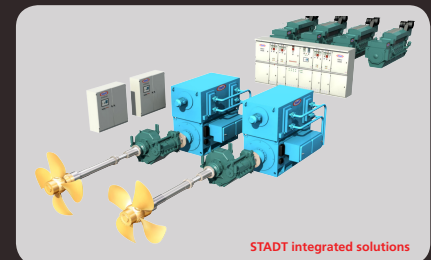
### Fuel- and emission-reduction up to 45 %

Fuel savings up to 45 % are achievable by using the STADT STASCHO in ship propulsion system. This is possible due to optimal operation of generator sets, and the no loss electric AC-motor control for the propellers. Pollution from CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>x</sub> is reduced equally.

**- Specify STADT STASCHO, it will pay off.**



### SUSTAINABLE ELECTRIC PROPULSION



#### NO LOSS AC Drive Technology

STADT STASCHO supplies sinusoidal voltage and current to the electric motor and back to the main switchboard. This gives very low harmonic disturbances in main switchboard and motor, without using transformers or filters. The STADT STASCHO is available in powers up to 100 MW in all voltage classes from 220 V to 15 kV.

#### STADT STASCHO - SUSTAINABLE TECHNOLOGY

- Reduced fuel consumption, by up to 45 %
- Reduced NO<sub>x</sub>, SO<sub>x</sub> and CO<sub>2</sub> emission
- Reduced maintenance and high redundancy
- Reduced noise and no EMC problems
- Highly reliable, compact system
- No transformers needed
- Lifetime more than 25 years
- For shaft lines - or azimuths, gas or diesel fuel

