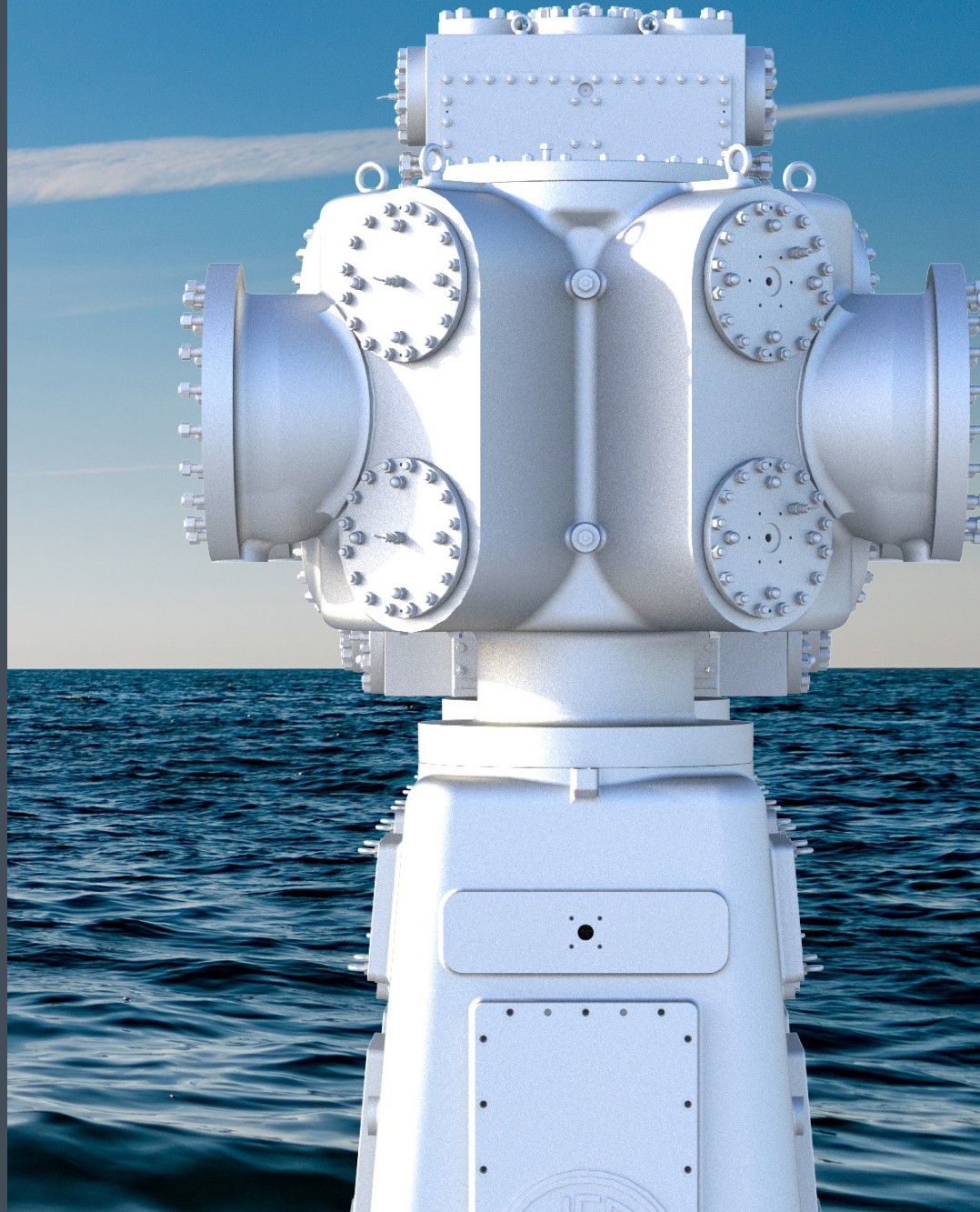


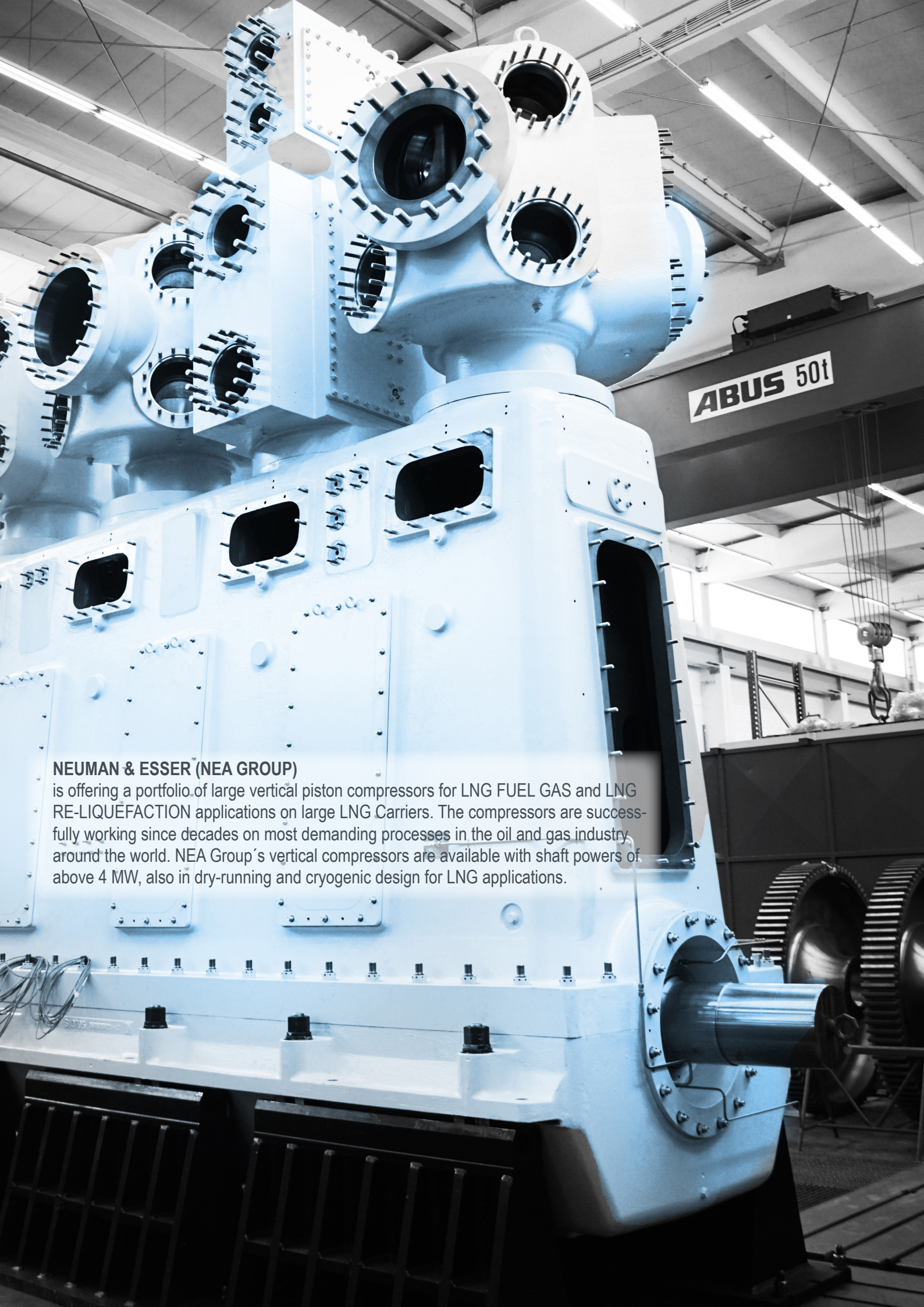


NEUMAN & ESSER



COMPRESSORS

FOR LNG CARRIERS



NEUMAN & ESSER (NEA GROUP)

is offering a portfolio of large vertical piston compressors for LNG FUEL GAS and LNG RE-LIQUÉFACTION applications on large LNG Carriers. The compressors are successfully working since decades on most demanding processes in the oil and gas industry around the world. NEA Group's vertical compressors are available with shaft powers of above 4 MW, also in dry-running and cryogenic design for LNG applications.

Features of the NEA GROUP Compressors for LNG Carriers:

- Cryogenic design for suction temperatures between -150°C and +40°C
- Discharge pressures up to 300bar (oil-free) suitable for ME-GI fuel gas and high-pressure LNG re-liquefaction (PRS/FRS) operation
- Compressors for low pressure fuel gas applications
- Booster compressors
- Gastight compressor design for zero emission
- Capacity control options with valve unloaders, clearance pockets and bypass control
- Fully balanced crank drive
- Contact ring sealing systems for unparalleled process efficiency and highest TBO (time between overhaul)
- Class approval from all common ship classification societies

NEUMAN & ESSER Scope of Supply

- Bare frame compressors
- Fully skid mounted compressor packages
- Control and monitoring systems
- Mechanical test runs
- Skid Package FATs
- Compressor installations
- Gas trials
- Global compressor service and spare parts supply
- Compressor revamps, upgrades, consulting
- Data solutions for compressor and process technology

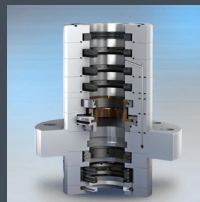
4th GENERATION
FAMILY BUSINESS



COMPRESSOR
PACKAGES



PATENTED
SEALING SOLUTIONS



DIGITAL
SOLUTIONS



GLOBAL
SERVICE



SPARE
PARTS



Solution Provider for Marine Applications

NEUMAN & ESSER is a 4th generation family business, with 120+ years of experience in compressor solutions, for both onshore and marine installations. Full-service solutions for marine applications range from bare frame compressors to complete compressor plants. All solutions are designed inhouse by experienced design teams using cutting edge engineering tools. In addition, NEUMAN & ESSER provides patented Sealing Solutions for marine LNG applications, available for cryogenic operation at around -150°C suction temperature as well as for high pressure operations at above 300bar discharge pressures, dry running. The Compressor Service Team provides global Service Solutions for marine compressor systems. The crew has long term experience with the special marine service requirements. For customers from the marine industry NEUMAN & ESSER offers service agreements with spare parts on stock for immediate on demand global delivery. Digital machine performance monitoring solutions are available allowing for the closest possible supervision of the system in operation, also from remote.



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