



PE-GU

Principal List

Deepwell Cargo Pump



Pump Room Solutions



Engine Room Pumps

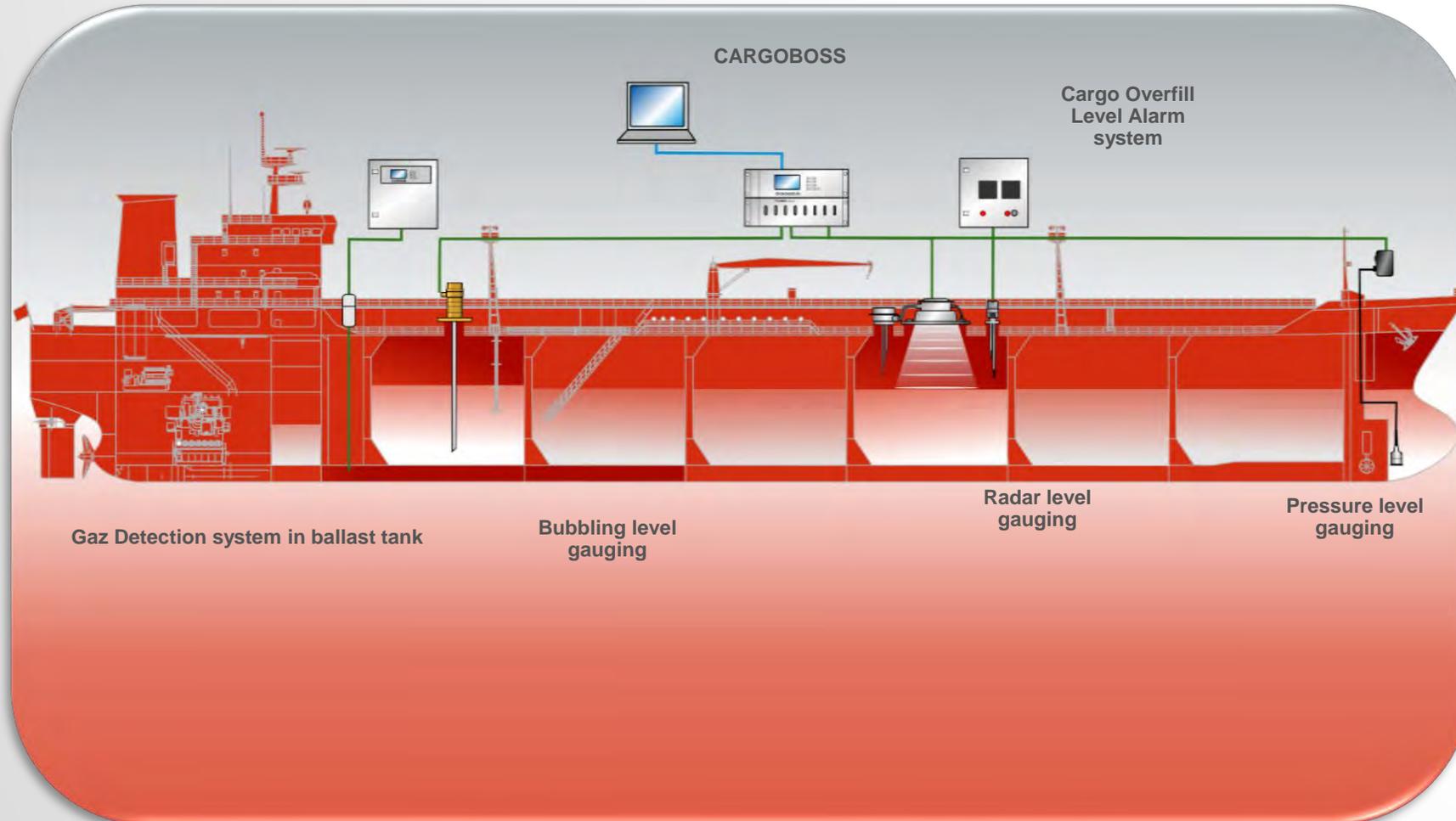


Custom Built Propulsion Unit

Auxiliary Gensets

Emergency/Harbour Genset





Tank Radars



HL / HHL



Bubbling



VAF

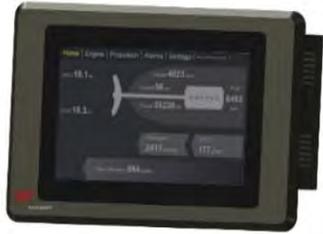
INSTRUMENTS

VAF
THE NETHERLANDS

TT-Sense® Shaft Power Thrust Meter

T-Sense® Shaft Power Torque Meter

ViscoSense® Viscosity & Density Meters



T-Sense® Shaft Power Torque Meter



HVAC/R Systems



Chiller unit



MARINE NITROGEN CABINETS



Nitrogen Generator
Containerized
Mobile System

NITROGEN PSA SYSTEMS



SEQUENTIAL PSA

- Input pressures up to 10.3 bar g
- Output pressures up to 8.3 bar g
- Flows up to 4,500 Nm³/hr
- Purities from 95% up to 99.99%

Small Capacity Cabinets



- Capacity between
10 – 250 Nm³/hr

Large Capacity Cabinets



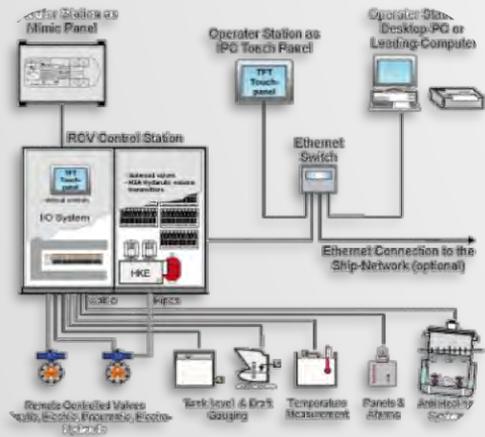
- Capacity up to 500 Nm³/hr



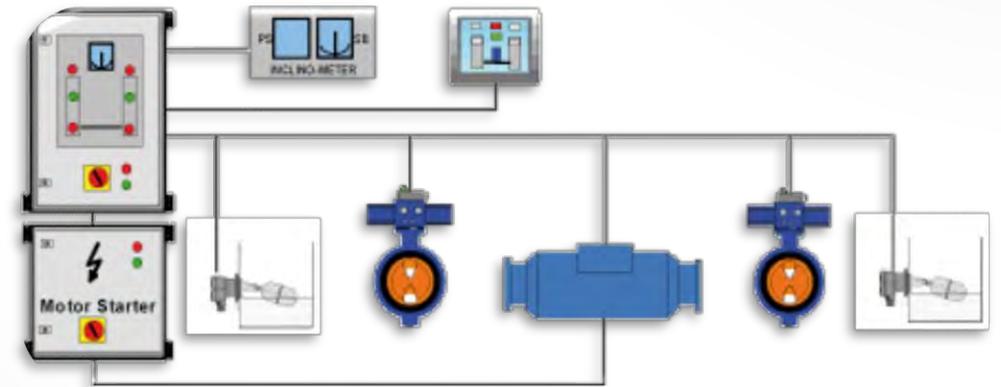
TWIN TOWER PSA

- Input pressures up to 10.3 bar g
- Output pressures up to 8.3 bar g
- Flows up to 6,000 Nm³/hr
- Purities from 95% up to 99.99%

Remote Control Systems



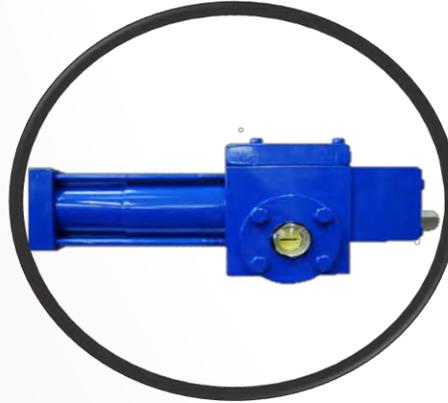
Anti Heeling System



Quick Closing Valves



Hydraulic Spring Return Actuator



Hydraulic Double-Acting Actuator



Electro-Hydraulic Power Pack



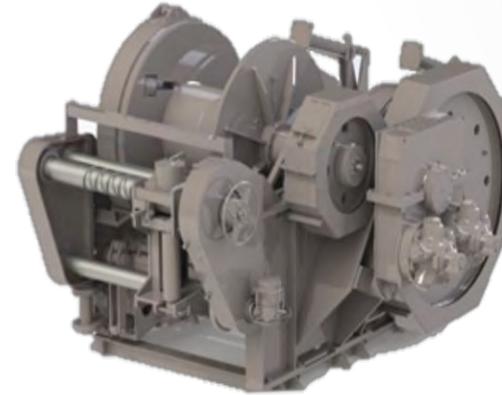
Hydraulic Linear Actuator



Winches



Anchor Mooring



Waterfall Towing Anchor Handling

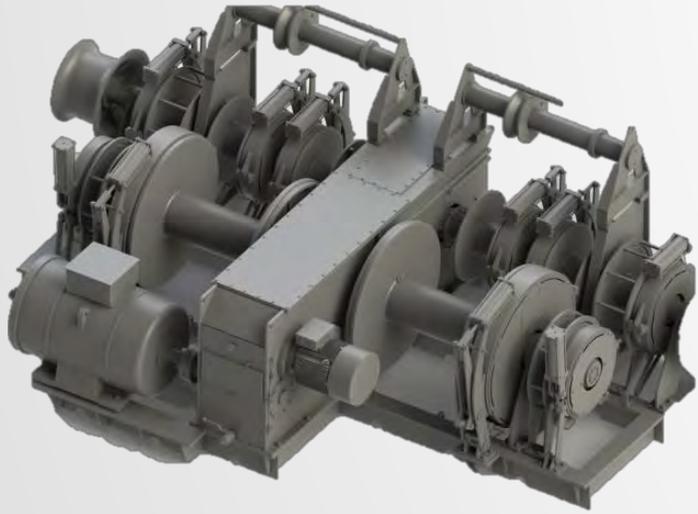


Anchor Towing



Anchor Winch 58, 60 & 62 mm

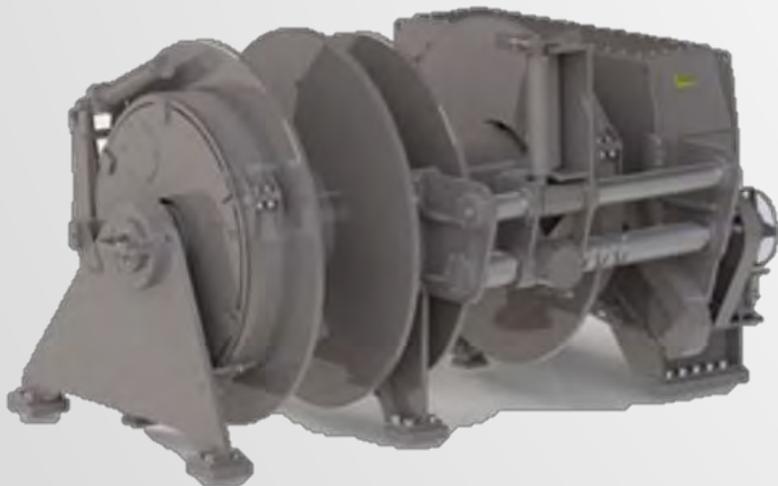
Mooring Equipment



Fishing Winches
8 or 10 drums



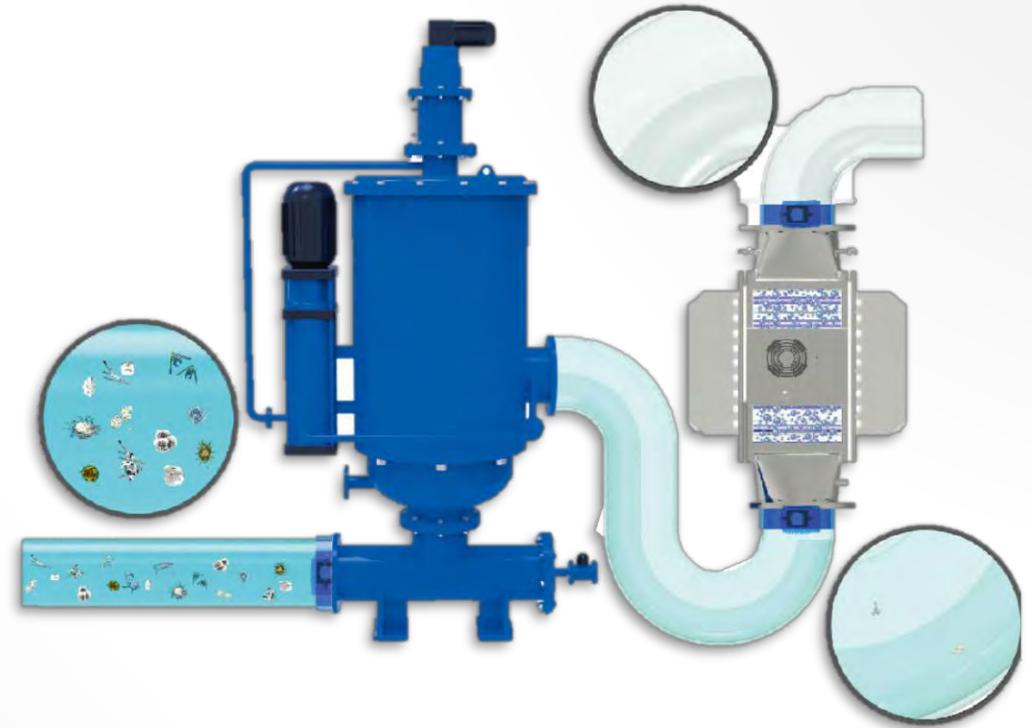
Double Fairleads



Towing Winch

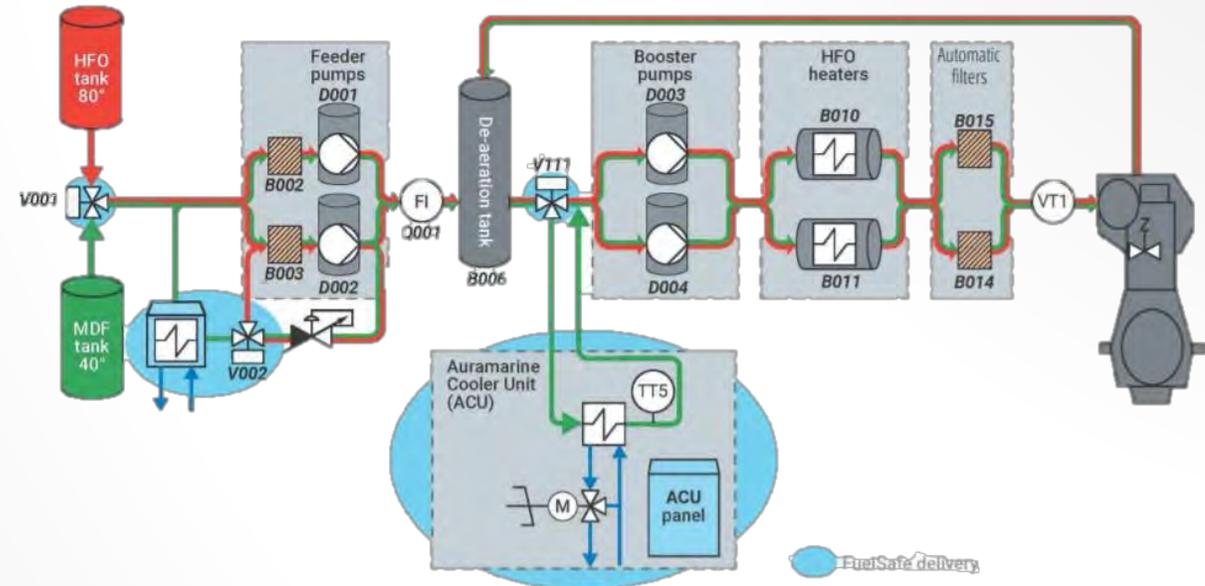


Warping **Rollers**

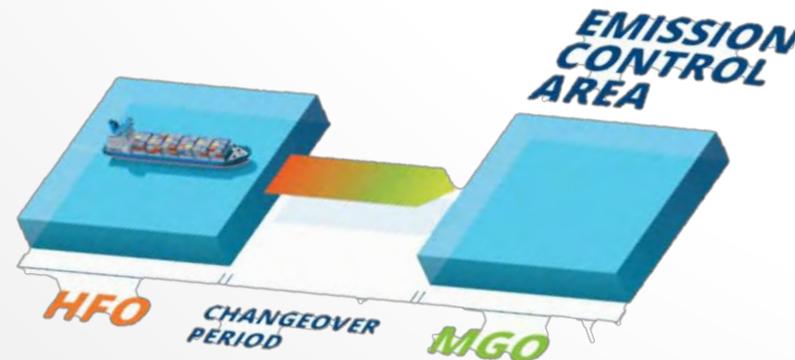


Ballast Water Treatment System

Heavy Fuel Oil (HFO) supply units



Typical AMB-M components and options



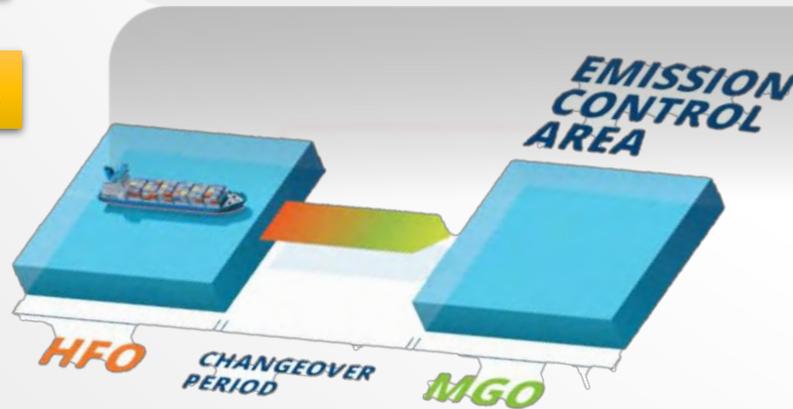
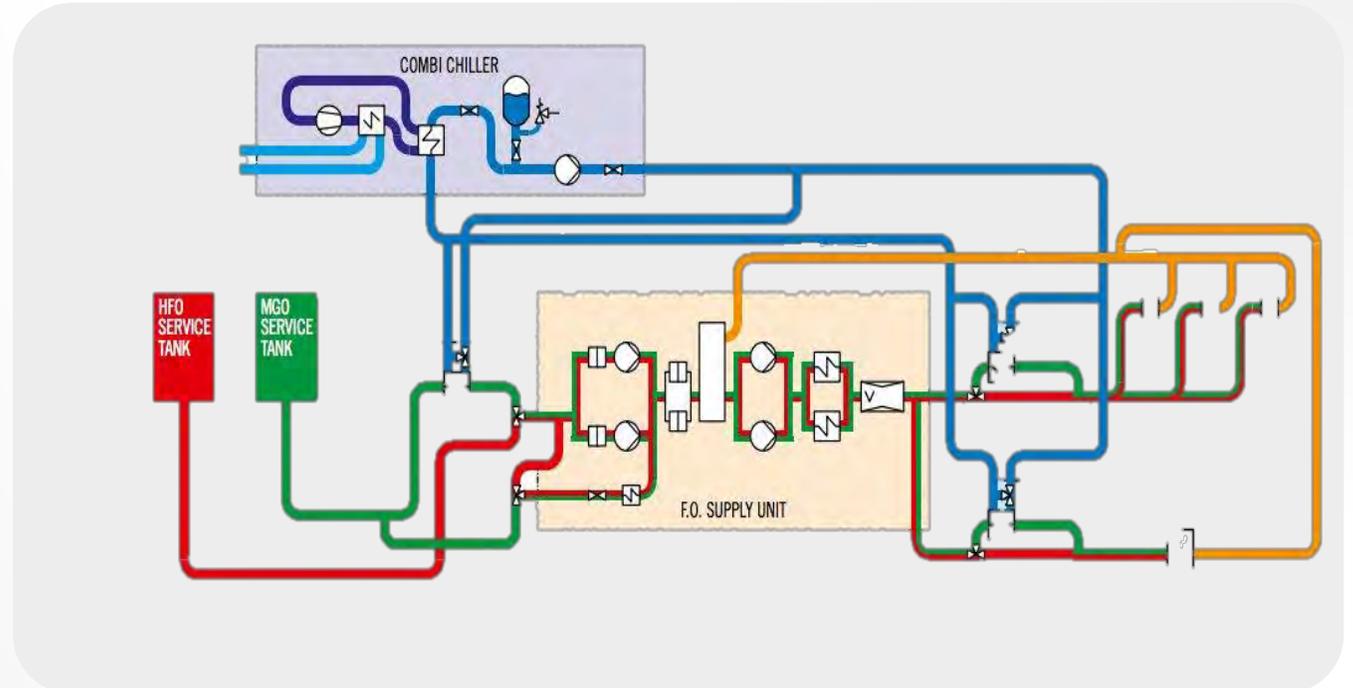
MGO Handling System



MGO Combi Chiller

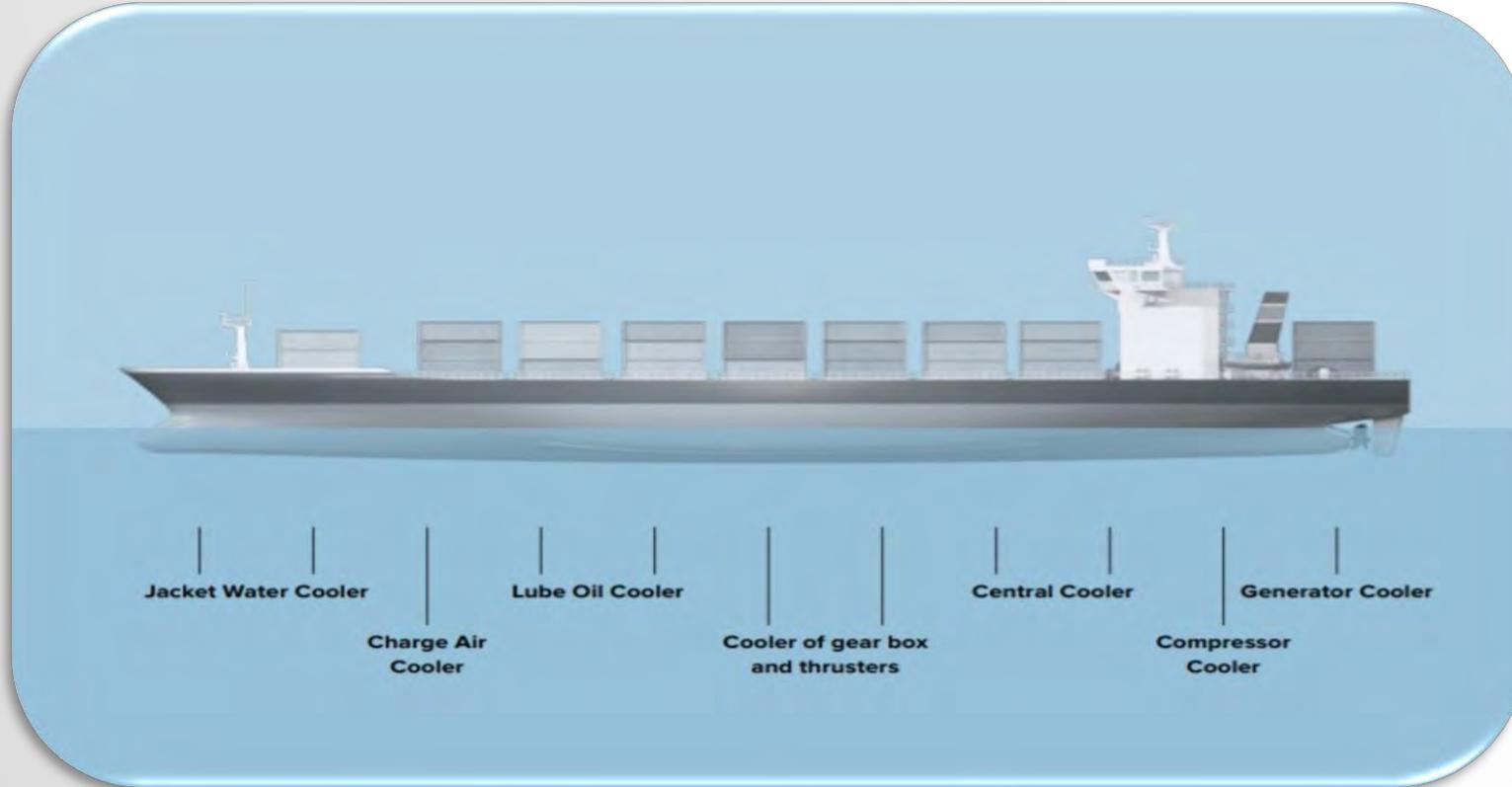


MGO Cooler Units



RELIABLE AND EFFECTIVE
HEAT EXCHANGE FOR
CRITICAL OPERATIONS ON BOARD

KELVION BLOKSMA
THE NETHERLANDS



BOX COOLERS

- ▶ Elimination of complete outboard secondary cooling water circuit. System does not require seawater pump, filter, valves, and seawater piping.
- ▶ Box coolers are much less susceptible to corrosion and fouling compared with any other solution



SHELL & TUBE HEAT EXCHANGERS

- ▶ For a wide variety of applications.
- ▶ Cost efficient and reliable solutions.
- ▶ Standardized product lines for an optimal price/quality ratio.
- ▶ Customized designs for the most demanding duties in oil & gas.



GASKETED PLATE HEAT EXCHANGER

- ▶ High efficiency at low operating costs
- ▶ Greater application possibilities at lower investment costs
- ▶ Maximum economic efficiency
- ▶ Service and maintenance costs are kept low





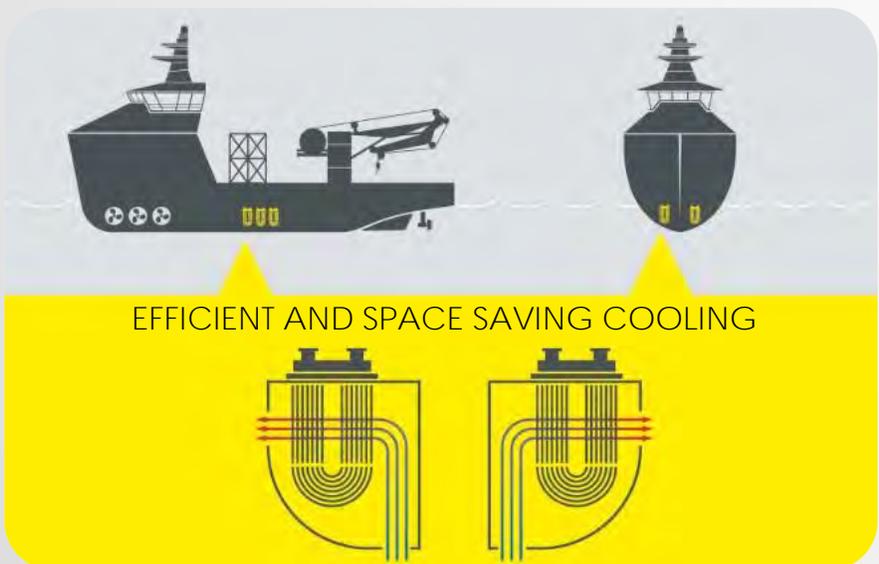
Boxcooler



Shell and Tube Heat Exchanger

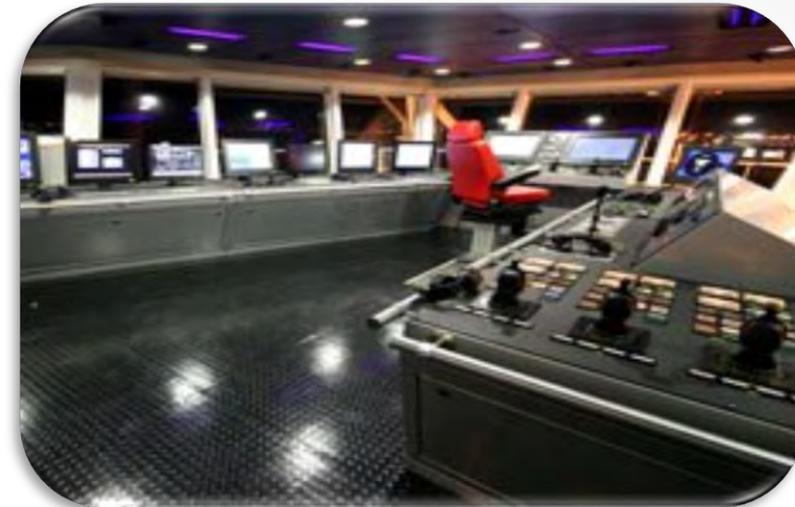
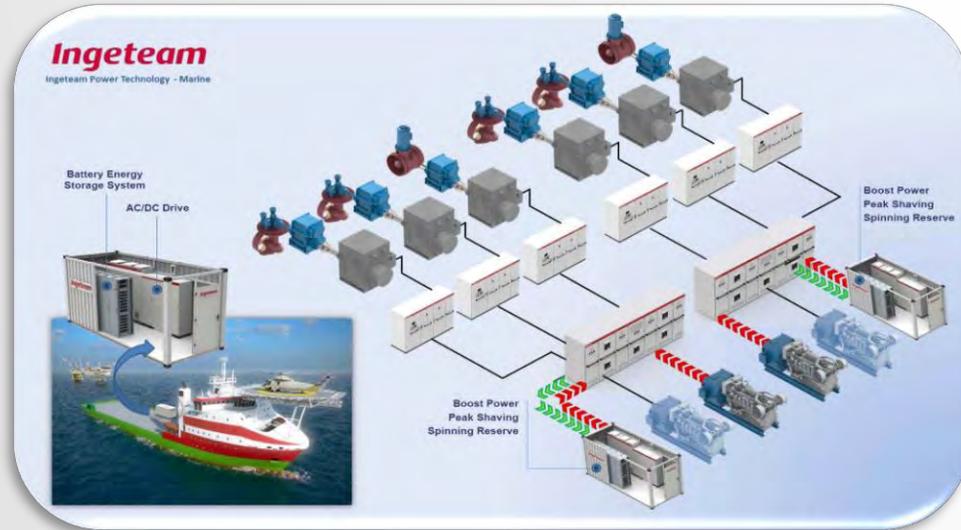


Lube Oil Coolers



Containerized Energy Storage Systems for Hybridsolutions

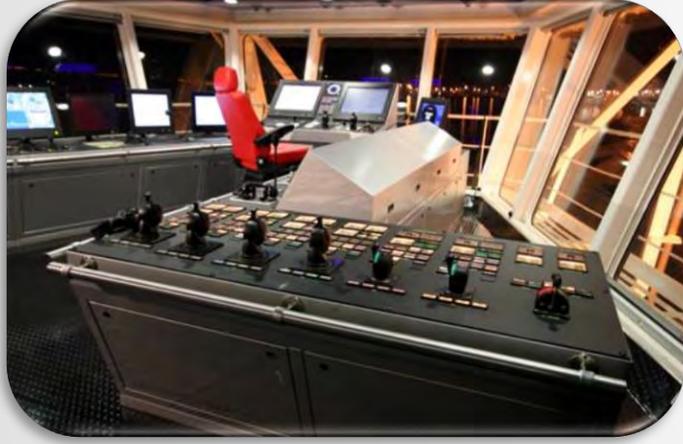
Automation of ships



-  Peak Shaving
 -  Dynamic Boost Power/Enhanced frequency regulation
 -  Load Balance for enhanced power plant stability (Load Sharing)
 -  Fixed load/Optimal rate of load change mode for engine fuel consumption reduction and optimal efficiency
 -  50/60 Hz Shore connection
 -  Spinning Reserve/UPS
- Full electric operation mode (zero emissions)

We provide Integrated Automation Systems (IAS), for all types of vessels, with the following functions:

- Power Management System (PMS). Integrated or independent system.
- Alarm system.
- Alarm extension system.
- Dead-man's alarm and engineers calling system.
- Monitoring and control of auxiliary systems (valves, pumps, fans, etc.).
- Standby of pumps.
- Ballast automatic control system
- Control of anchors.
- Tank level monitoring
- Safety system
- Special automation systems:
 - Dredging systems
 - Lateral aggregate dumping/pumping/hopper system



Turnkey integrated solutions



Frequency Converters



Electric Motors





Complete Electrical Plant



Main and auxiliary Switch Gear



Electric Generators

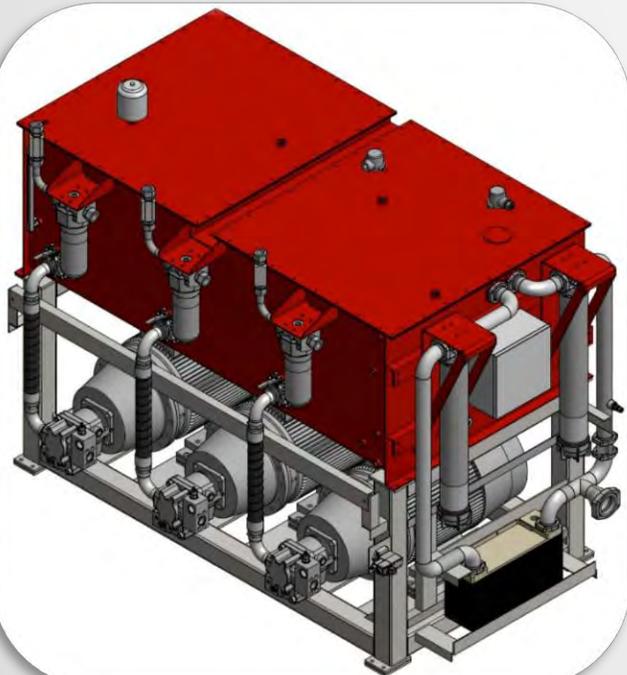




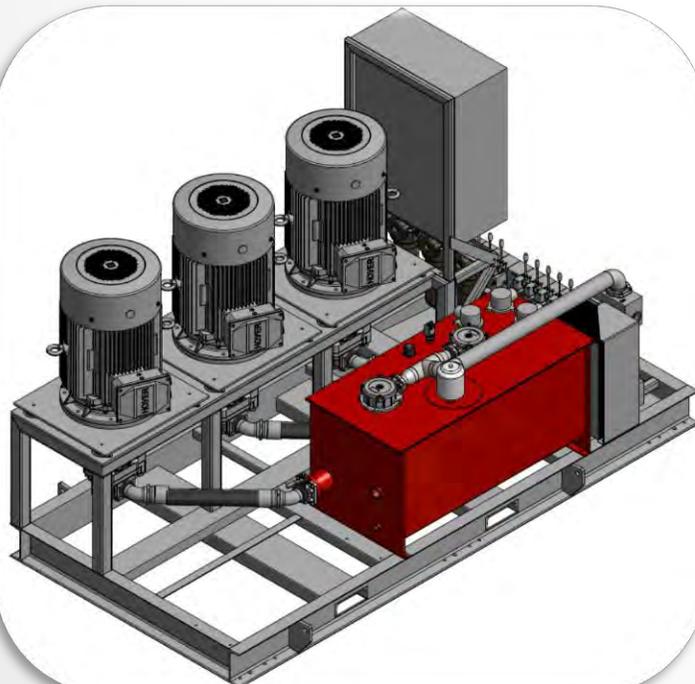
- Manufacture wide size range to meet any power requirements
- Several production facilities in close proximity to customers
- Large, highly experienced engineering staff
- Integrating 3rd party components
- Track record in most demanding markets: Offshore, Subsea, Marine and Defence

Servi is the largest manufacturer of Hydraulic Power Units in Norway

Hydraulic Power Units
with Standard Tank



Three pump, water cooled
Cyclone HPU



Two pump, water cooled
Cyclone HPU



Servi is the largest manufacturer of Hydraulic Power Units in Norway

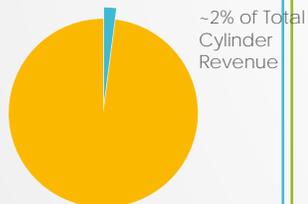
represented by PE GU

Greater than 125mm
in Diameter:



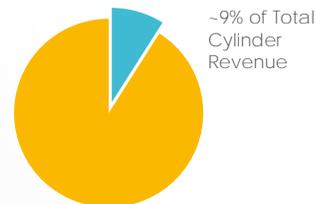
Standard Range

- Series CD 20, CD 10, LHA 25
- Prefabricated parts
- Offshore uses



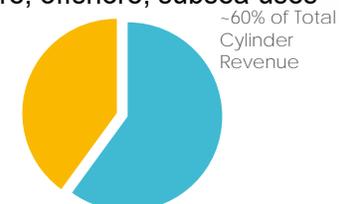
Complex Range

- Customized cylinders, accumulators, shock absorbers
- Offshore, subsea uses



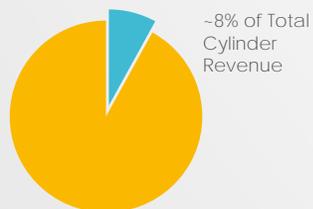
Most Complex Range

- Customized large cylinders, accumulators, shock absorbers, tension cylinders
- Onshore, offshore, subsea uses

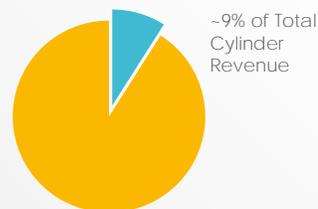


Less than 125mm
in Diameter:

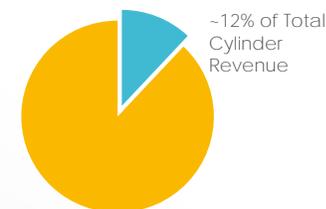
- Series CD 20, CD 10, LHA 25
- Prefabricated parts
- Offshore uses



- Customized cylinders, accumulators, shock absorbers
- Offshore, subsea uses



- Customized accumulators
- Special material cylinders
- Offshore, subsea uses





NK COMPRESSOR
GERMANY

STARTING AIR, AIR-COOLED | 2-STAGE



STARTING AIR, AIR-COOLED | 3-STAGE



STARTING AIR RECEIVER



STARTING AIR, WATER-COOLED



STARTING AIR, HAND COMPRESSORS



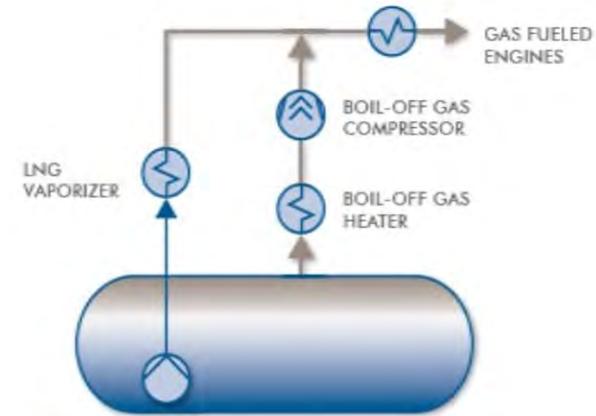
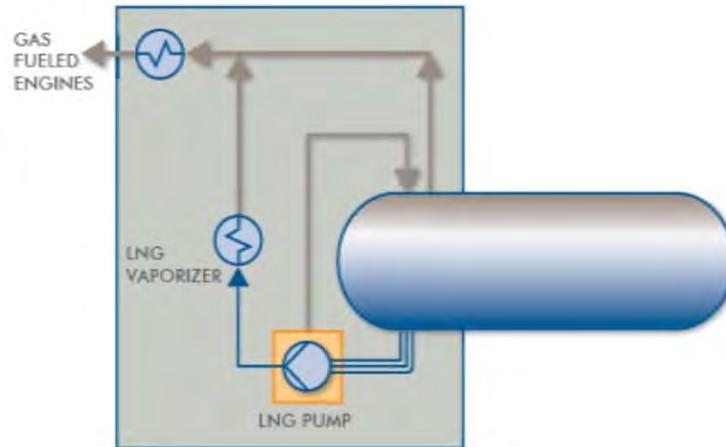
represented by PE GU

LNG Fuel Gas Systems

Technology

Type Low Pressure Vacuum insulated tank

- Vacuum insulated tank
- Stainless steel box for process equipment welded to tank
- LNG pump in suction vessel
- Bottom outlet to fuel gas pump with double-wall piping
- Tank design pressure 10 bar g for easy BOG handling
- Gas to engine: 4 bar g or 16 bar g



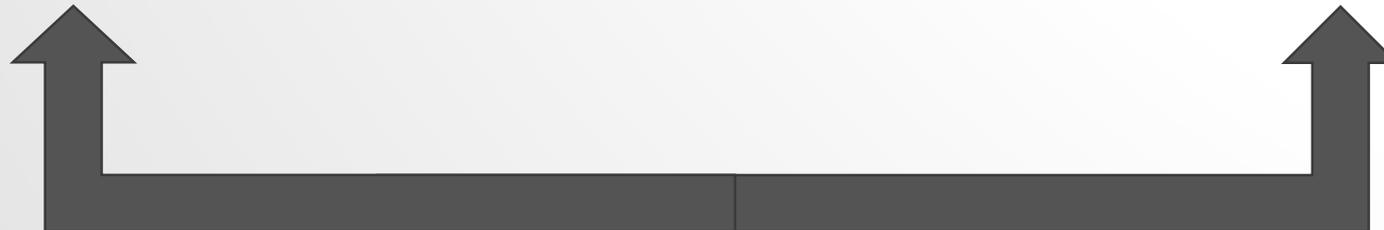
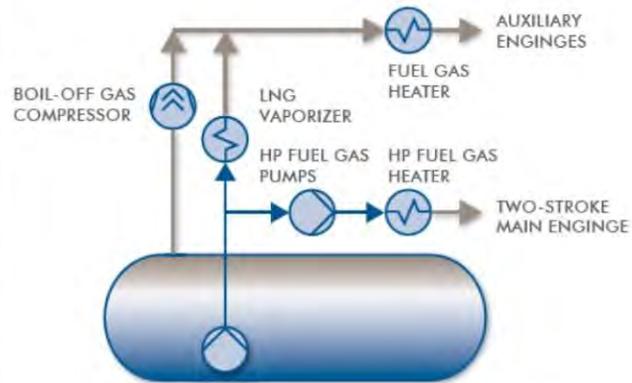
Type Low Pressure Foam insulated tank

- Foam insulated type C tank
- No bottom outlet
- Submerged fuel gas pump and BOG compressor
- Tank design pressure 4 bar g for easy BOG handling
- Gas to engine: 4 bar g or 16 bar g

LNG Fuel Gas Systems

Type High Pressure Fuel Gas System

- Foam insulated type C tank
- No bottom outlet
- Submerged fuel gas pump, high pressure pump, and BOG compressor
- Tank design pressure 4 bar g for easy BOG handling
- Gas to main engine: 350 bar g



SEWAGE TREATMENT PLANTS

BIOLOGICAL SEWAGE



MEMBRANE Bioreactors



OILY WATER SEPARATORS



MARINE INCINERATORS



Helicopter Refueling System

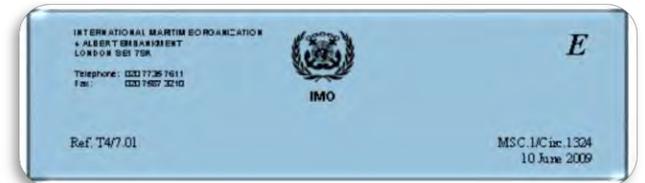




MMC
UK



- Portable Electronic Gauging Tapes
- Vapour Control Valves
- Slop Tank Logic Systems





MARINE CRANES

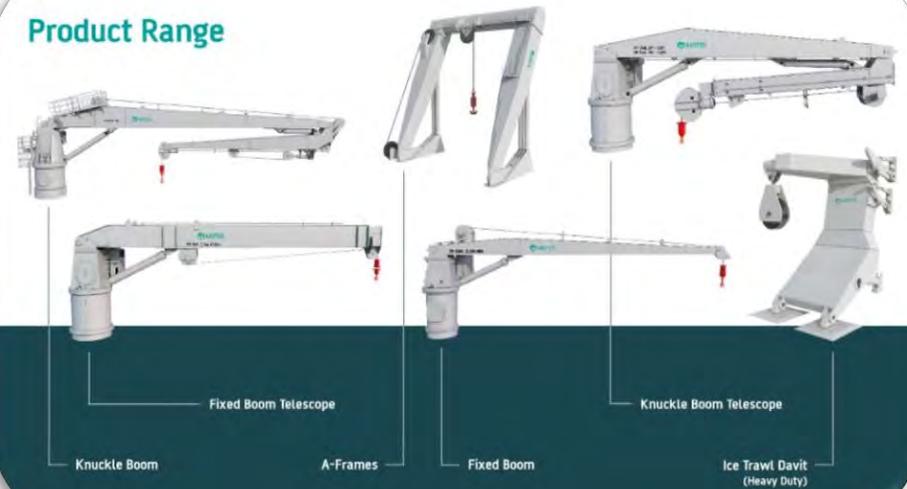


ICE TRAWL DAVIT SYSTEM



WALK 2 WORK GANGWAY

Product Range



TECHNICAL INDOOR LIGHTING



TECHNICAL OUTDOOR LIGHTING



FLOODLIGHTS



FLOODLIGHTS



ACCOMMODATION

EMERGENCY LIGHTING

NAVIGATION LIGHTING

BRASS LIGHTING



FLOODLIGHT

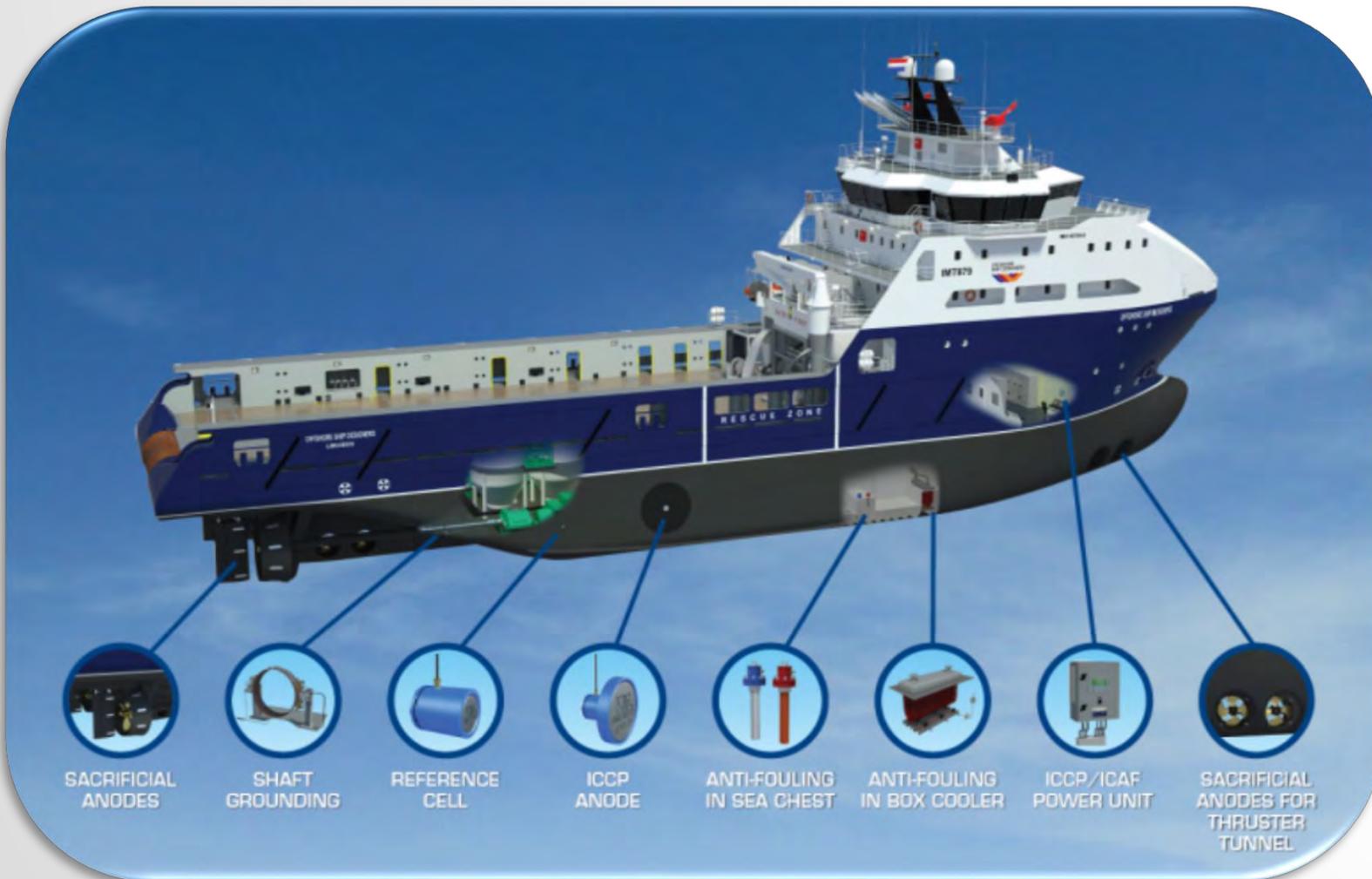


EXFLOODLIGHT



SEARCHLIGHT





“Harbinger”
Boarding Equipment

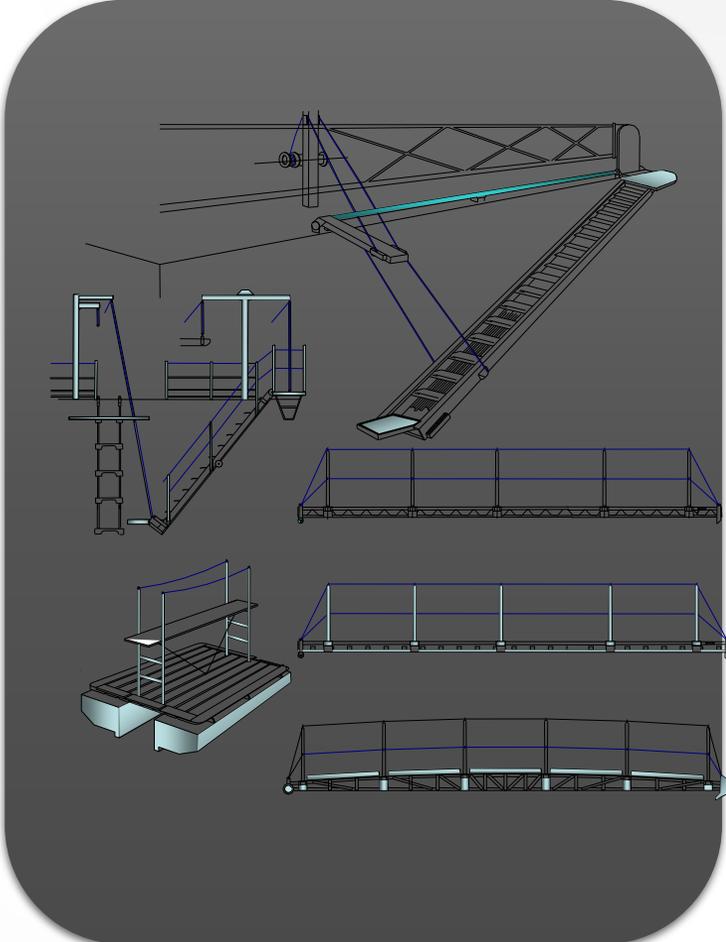
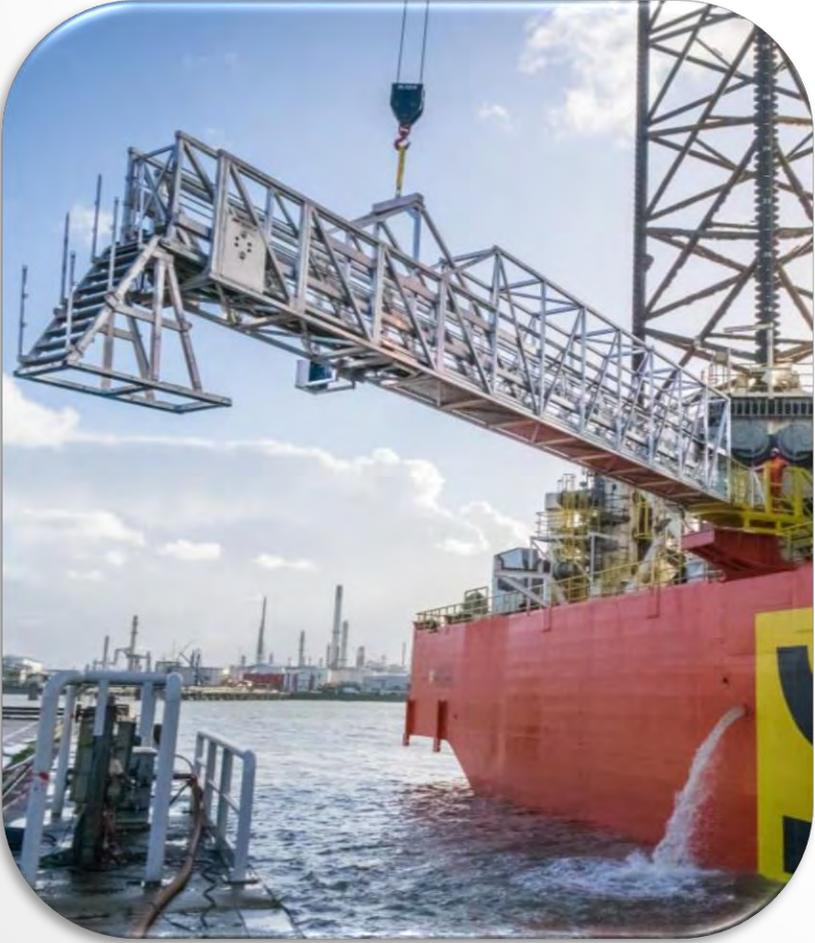
Cathodic Protection
Sacrificial Anodes

Cathodic Protection
ICCP systems

Impressed Current Anti-Fouling
(MGPS / ICAF)

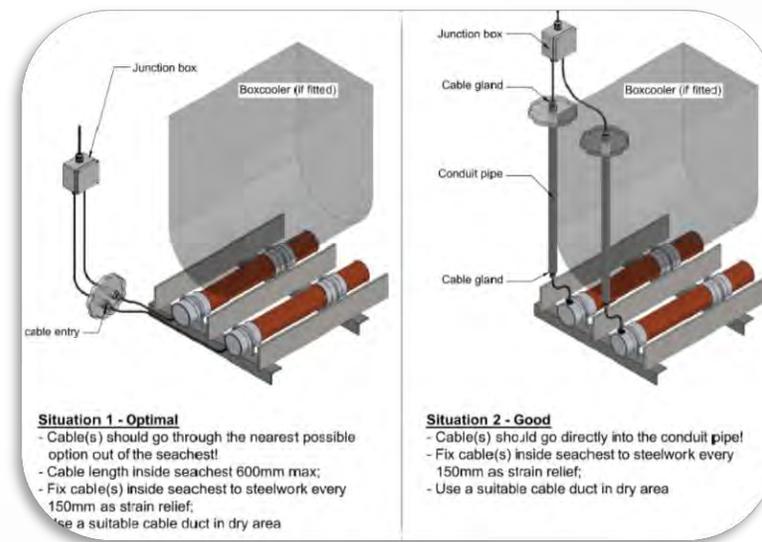
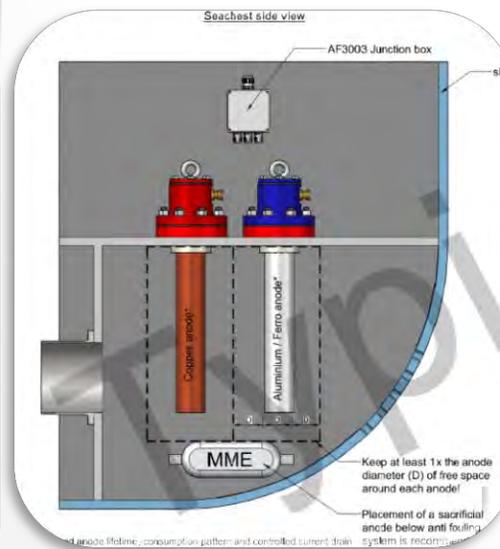
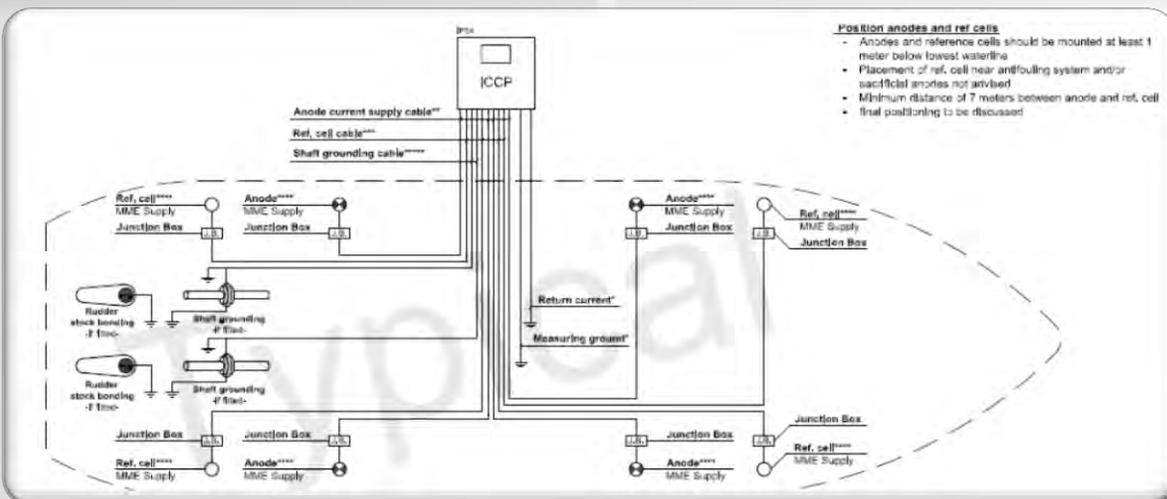
Cathodic Protection
Sacrificial Anodes

“Harbinger”
Boarding Equipment

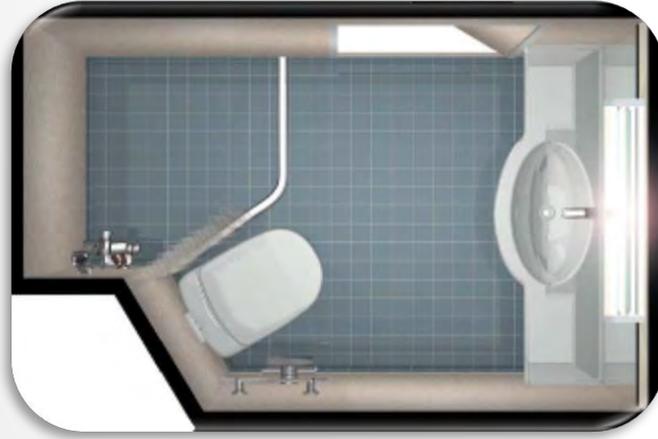


Cathodic Protection ICCP systems

Impressed Current Anti-Fouling (MGPS / ICAF)



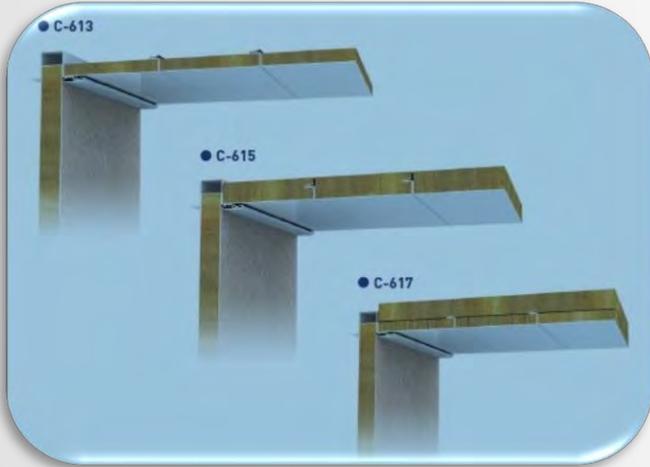
Bathroom unit



Cabin Unit



Flat ceiling panel system



Standard ceiling panel system



Marine Doors



Embo ceiling panel



Tile ceiling panel system

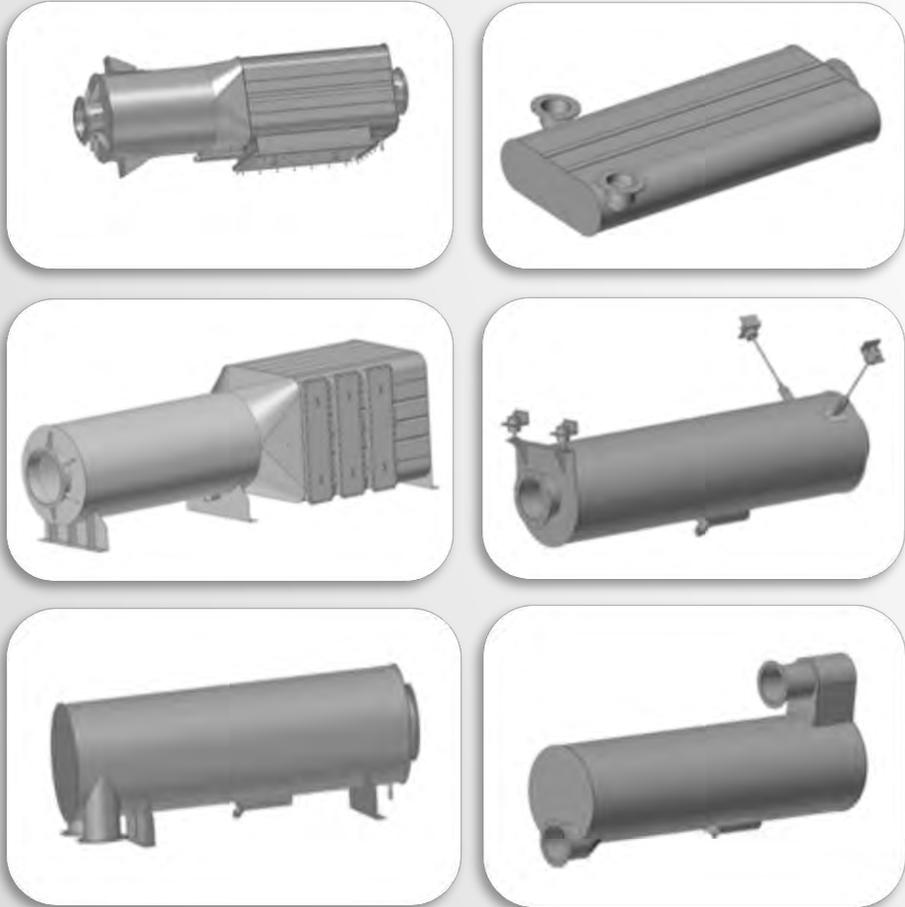


Pilot Chairs

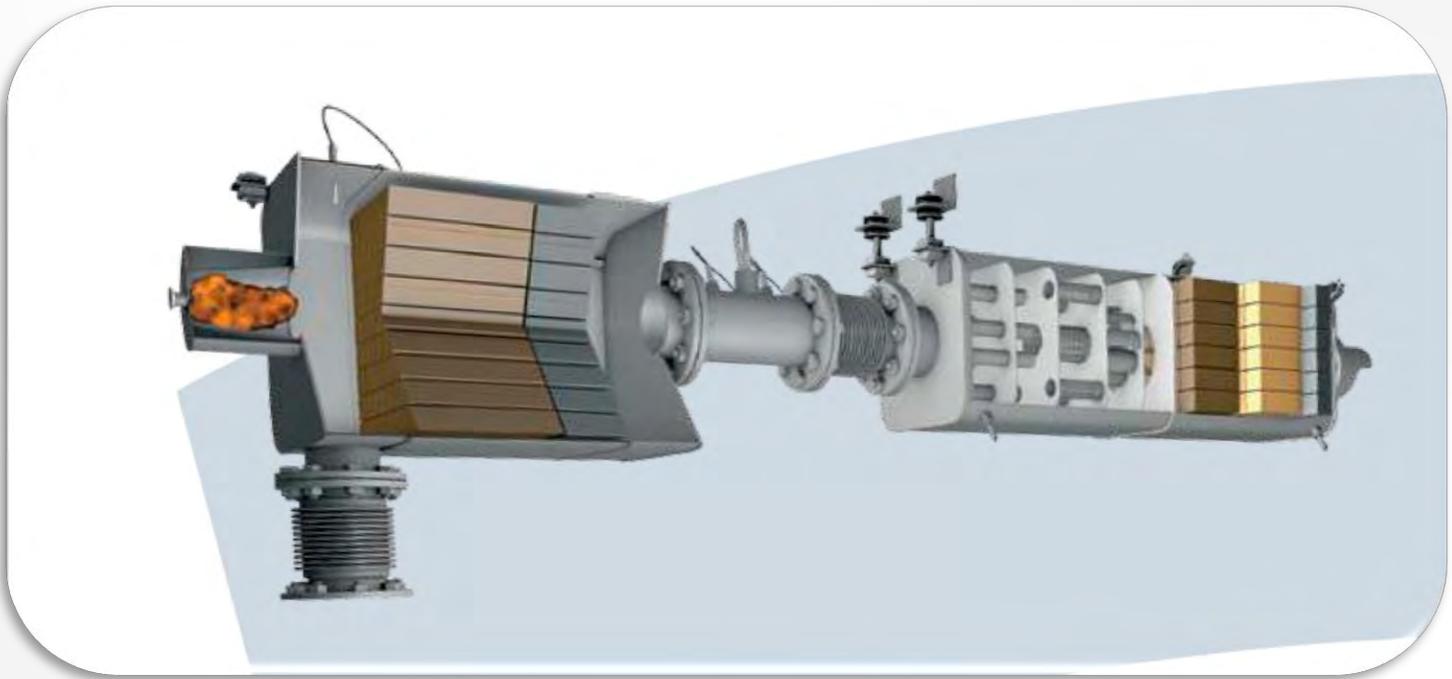
Passenger Seats



EXHAUST SILENCERS



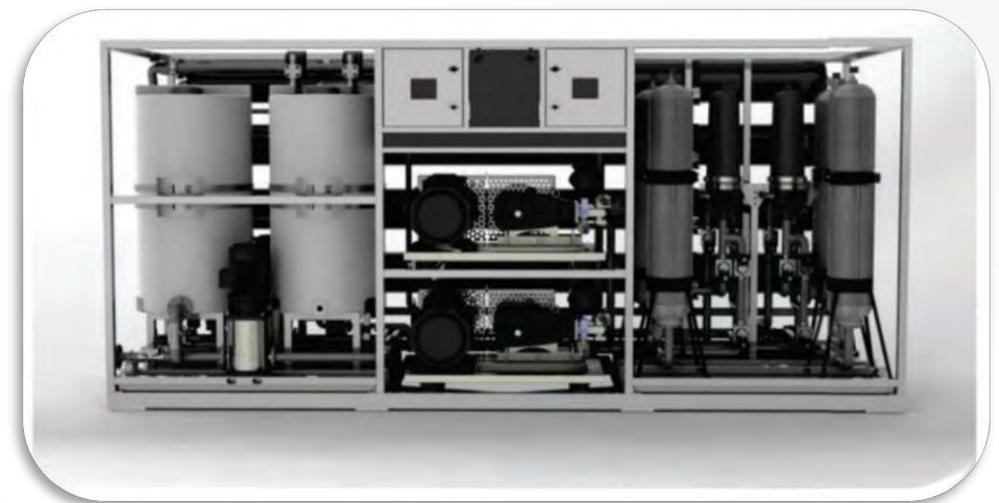
SCR SYSTEMS WITH INTEGRATED SILENCER
AND TYPE APPROVED SPARK ARRESTOR

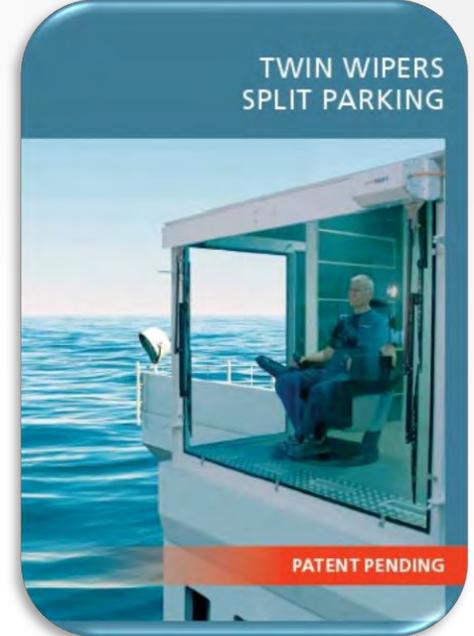


Fresh Water Generators

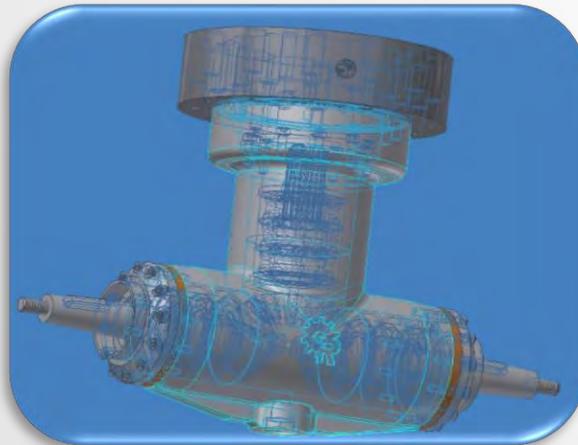


Revers Osmosis System





THRUSTERS





DASPOS
DENMARK



The LAS-10 Atmospheric Oil Mist Detector
for open engine room spaces

Facts about LAS-10

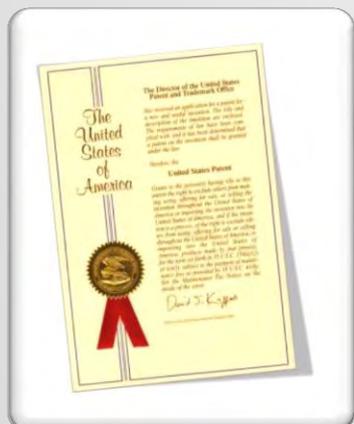
Product Specification



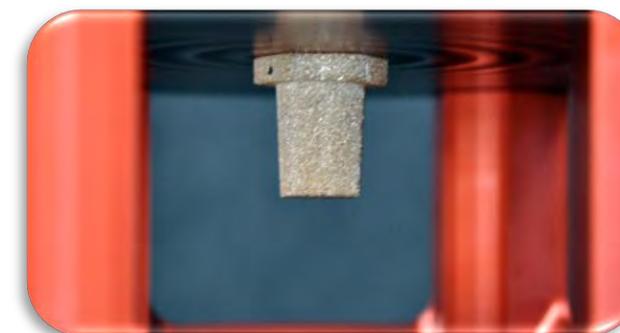
The H-18 Hot-Box Detector for small
compartments and hot boxes

Facts about H-18

Product Specification



- U.S. patent
- DNV-GL Type approval
- LLOYD's register Type approval



represented by PE GU



Energy Saving and Seakeeping Device CFD Analysis

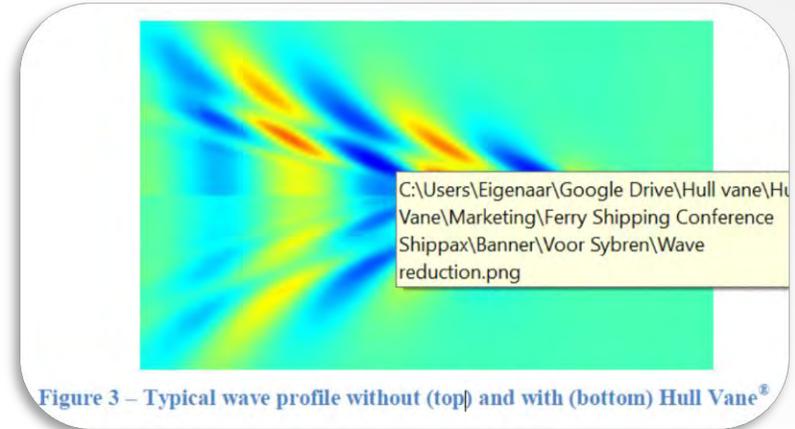


Figure 3 – Typical wave profile without (top) and with (bottom) Hull Vane®

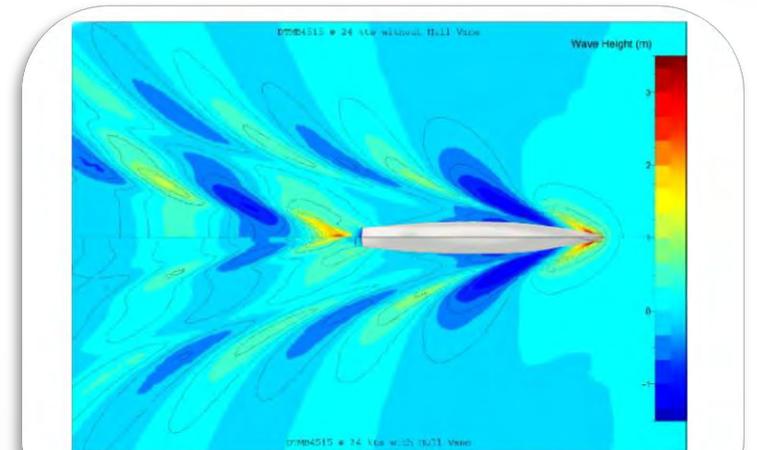


Fig. 18. Wave profile without (upper halve) and with Hull Vane® (lower halve) on DTMB5415 at 24 knots [3]

Marine Fixed Gas Detection



ABC - Always Be Calibrated Solution



Gas Onboard Gas Detector Solution





Preparation Equipment

Cooking Equipment

Ovens

Ranges and Bratt Pans

Grill and Restaurant Equipment

Bar Equipment

Coffee Brewing Machines

Food Serving

Cold Cabinets

Dishwashing

Trolleys, Tables, Shelves

Laundry Equipment

Food Serving



Dishwashing



Laundry



Cooking



Furniture



Proff NC-1200

Proff HW-400

ATE 1500

Coffee & Bar





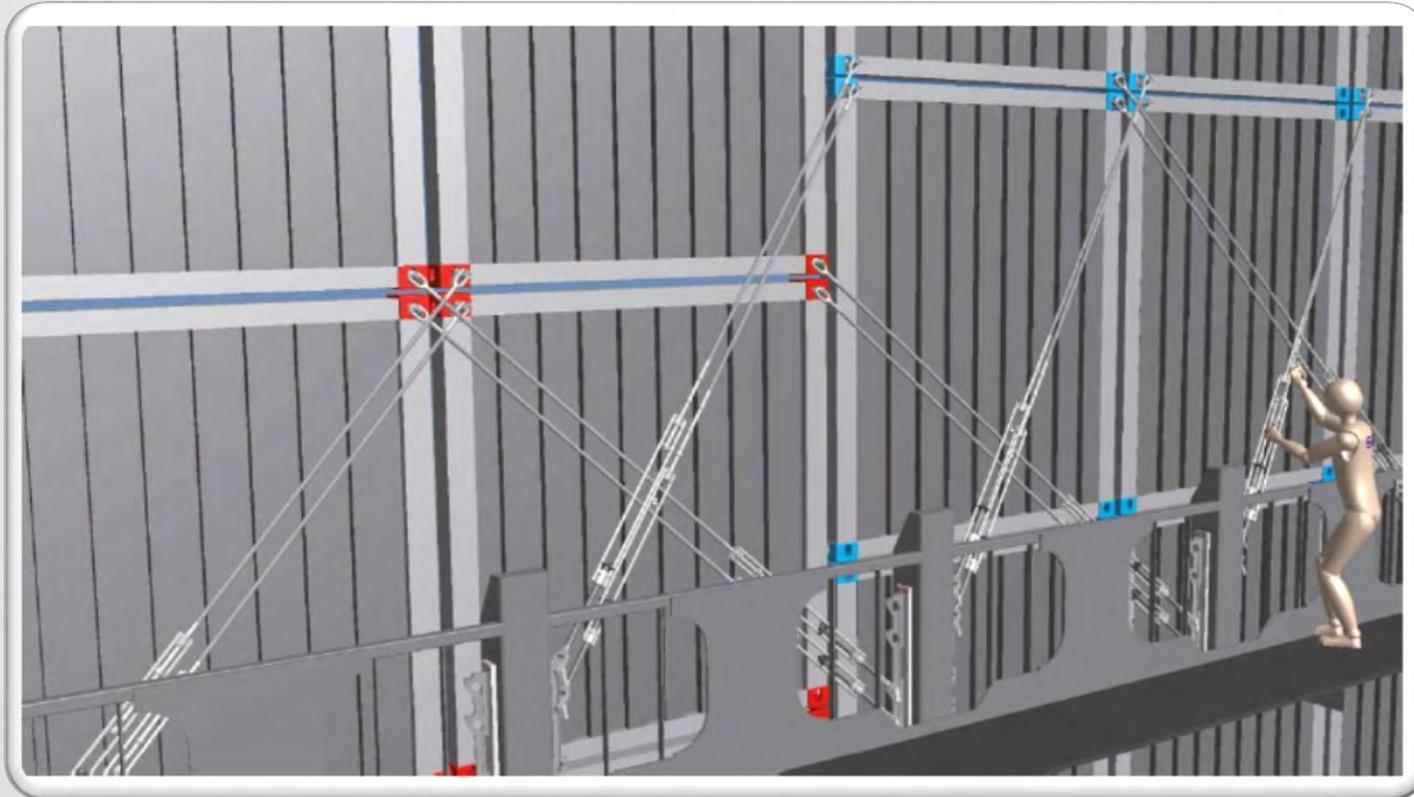




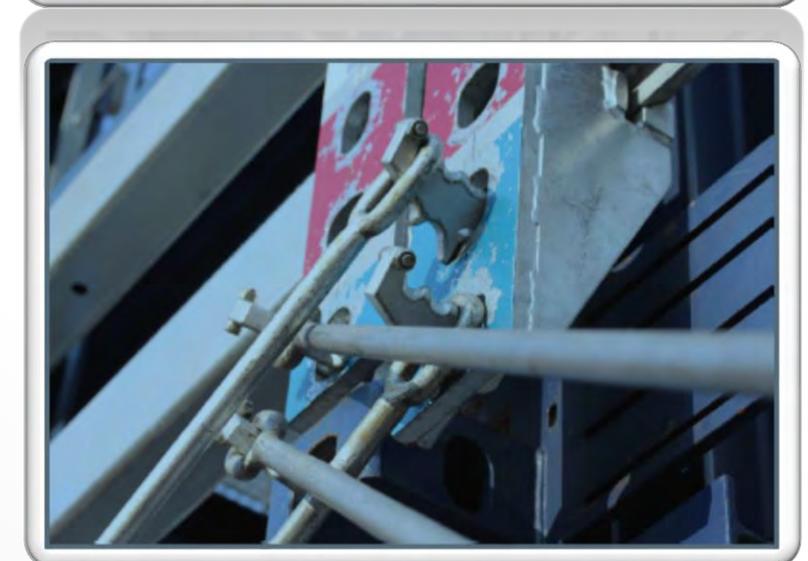


CONTAINER
SECURING
EQUIPMENT

Innovation made in germany



A Unique New Lashing Method to combine
External & Internal Lashing and any Size
(8'.6" to 9'.6") Containers
with a Single Type/Size of Bar!



Fully-automatic twistlocks

PATENTED



TL-FA/LG
~ 5.9 kg

Semi-automatic twistlocks

TL-A/L
~ 4.9 kg



Midlocks

TL-M/L
~ 4.9 kg



Conventional twistlocks

TL-L
~ 5.5 kg



Semi-automatic twistlocks

TL-GA/L
~ 5.4 kg



Automatic bottom locks

Bottom Midlock
TL-M/BL
~ 5.5 kg



Dovetail twistlocks for point load

TL-BL
~ 7.3 kg



Turnbuckles



RS-FS
~ 11.5 kg

Turnbuckles



RS-FN
~ 12.4 kg

Lashing bars

R-KS/...



Operating rods

for conventional twistlocks



OR-F/3800
~ 2.0 kg



OR-R/3800
~ 2.0 kg

Operating rods

OR-A/...

for semi-automatic twistlocks

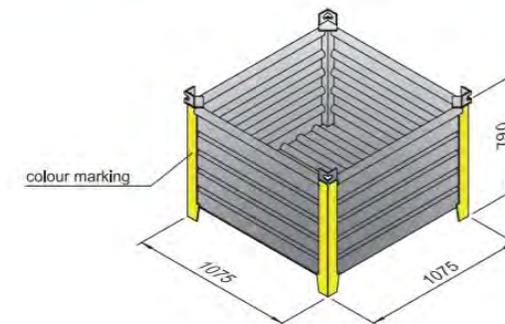


Operating rods

Telescope type for semi-automatic twistlocks



Storage bins



Bin 1075x1075x790
~ 95 kg

Bin racks

PL-40x8/16
~ 3950 kg (without bins)

PL-20x8/10
~ 1500kg (without bins)

Bridge fittings

BR-TP
~ 8.2 kg

BR-TP/365
~ 8.9 kg

Stacking cones

IS-1/115
~ 2.6 kg

Twist stackers

IS-1T/L
~ 2.5 kg

Bottom stacking cones

BS-1/115
~ 2.5 kg

Tension / pressure elements

SE-TP/1T/...

SE-TP/1S/...

Pressure adapters

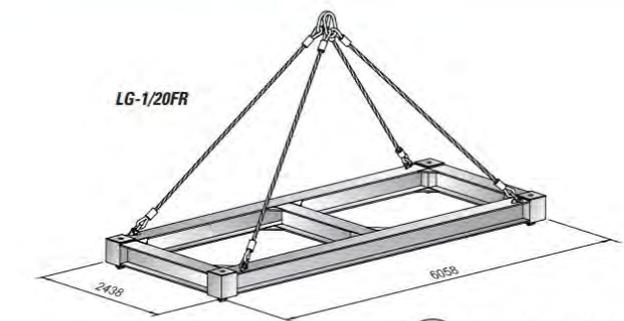
DA-IS/258
~ 1.4 kg

Lifting foundations

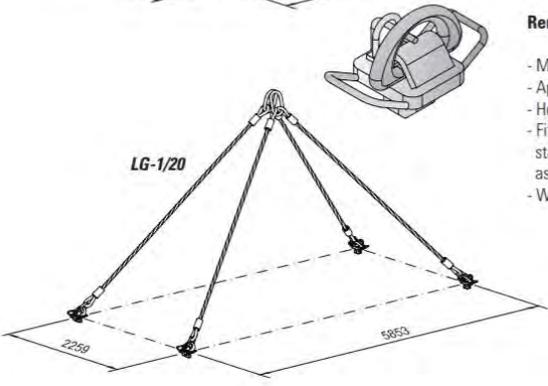
Lifting eyes inclined longitudinally
SF-C1LS/EL/110/U160

SF-C1LS/ER/110/U160

Spreader and lifting gear



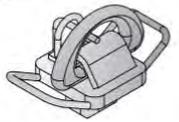
LG-1/20FR



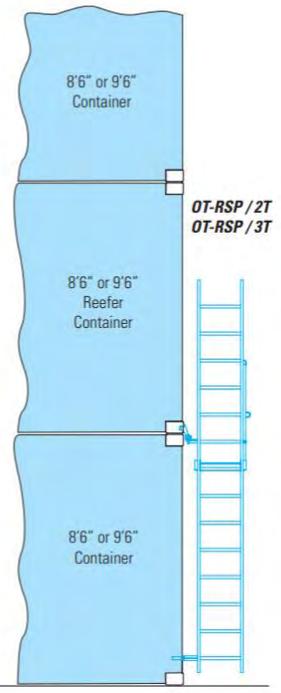
LG-1/20

Removable lifting eye LGE-50

- Min. breaking load 500 kN
- Approved for lifting purposes
- Hot dip galvanised
- Fits into all foundations with standardized ISO-hole as well as container corner castings
- Weight - 12.7 kg



Removable reefer platforms



Iso-plugs



IP-P
~ 0.05 kg



IP-SR
~ 0.45 kg

High adapters

CP-1/TC/305
~ 19.4 kg



Hatch cover lifting stopper



SF-1HSL/160/110/±45

Optional hardware for attachment



Bow shackle
B/L = 10000 - 20000 daN



D-ring
B/L = 12000 - 20000 daN



D-ring
B/L = 12000 - 20000 daN



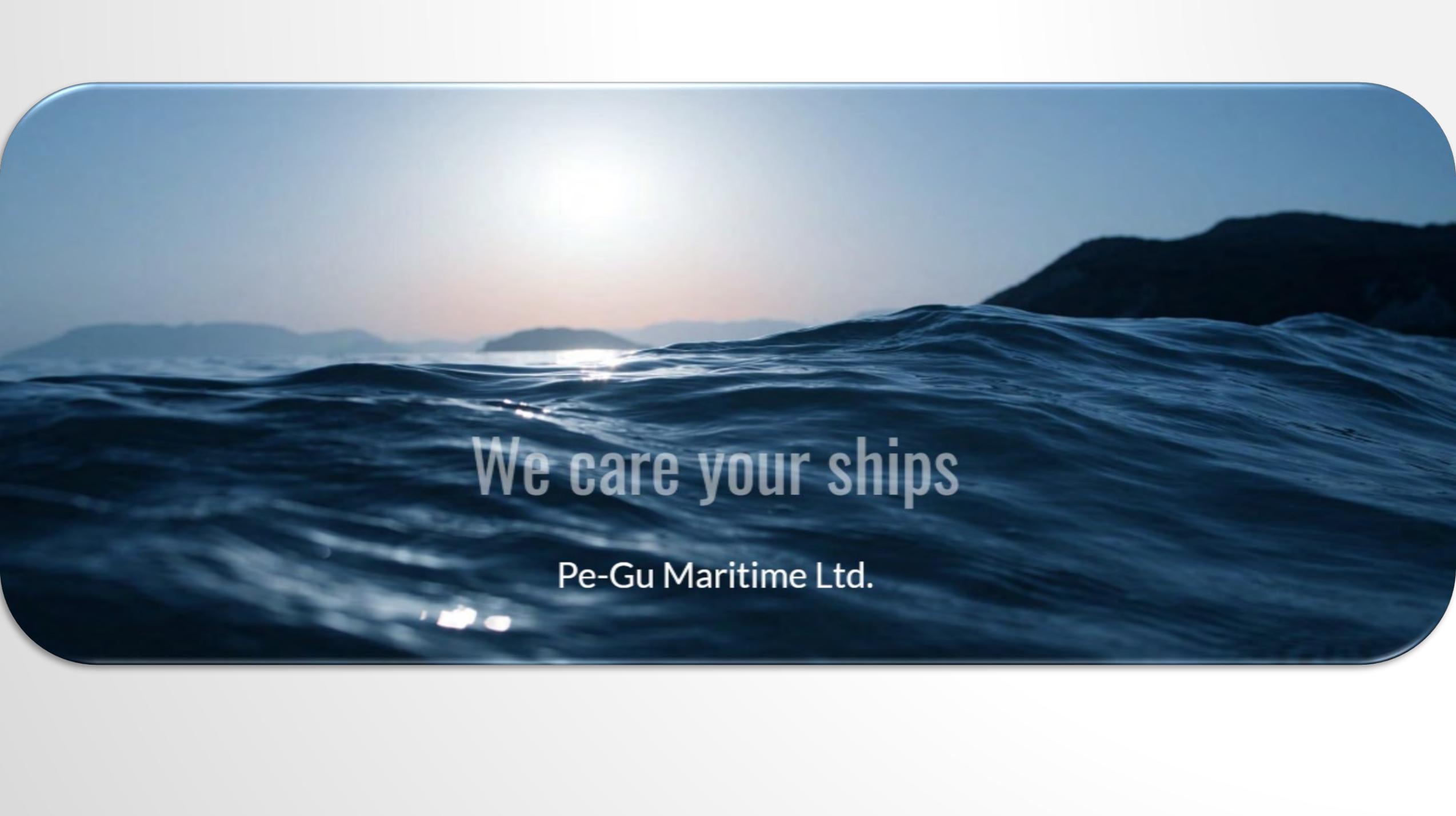
"Elephant foot"
B/L = 6000 - 12000 daN

ISO / EURO-adapter pieces



DA-CG/30
~ 3.2 kg





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Pe-Gu Maritime Ltd.