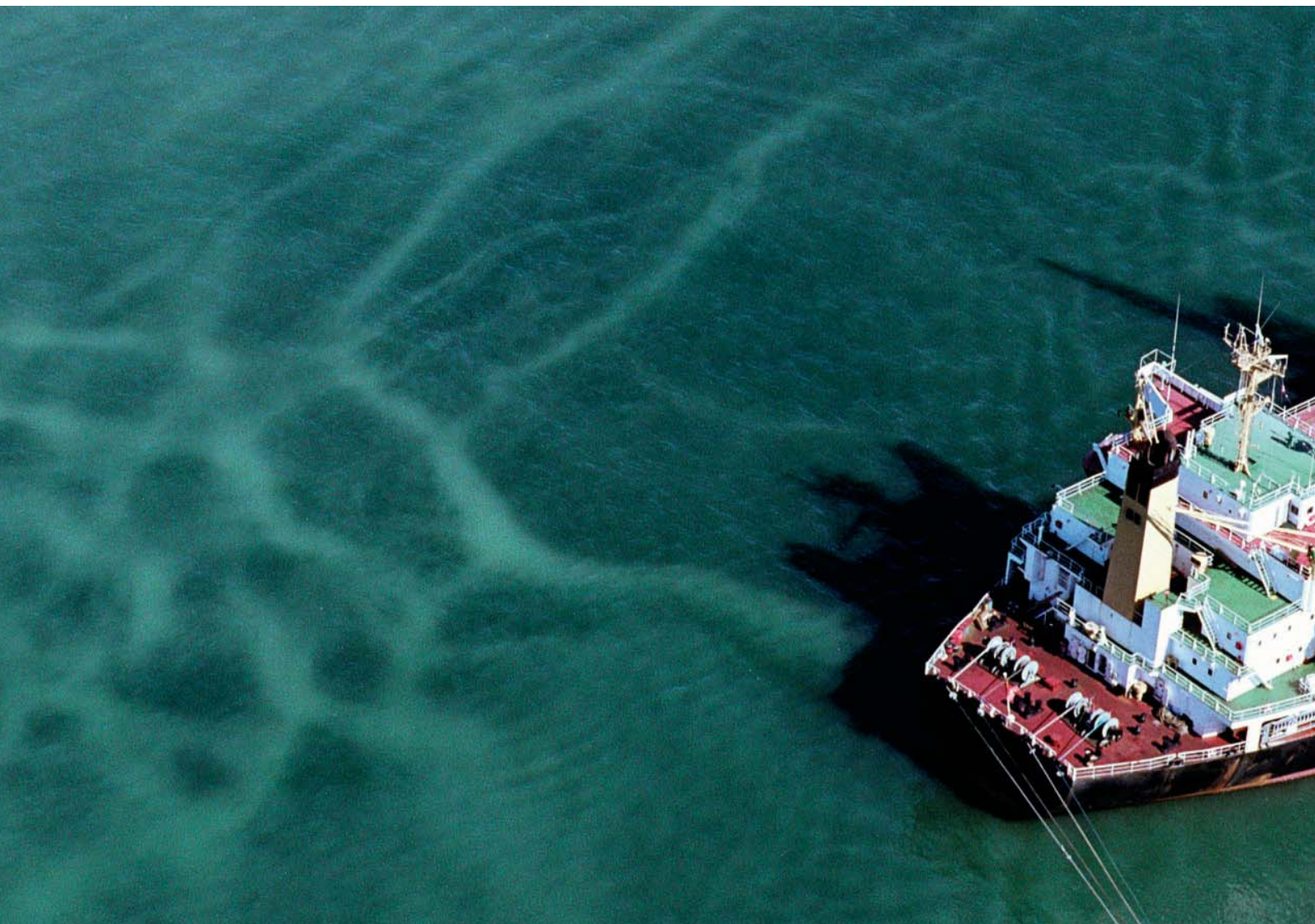


MARINE INDUSTRY

BÖRGER®

The unique
Rotary Lobe Pump
with MIP!



Surfing the wave of success: Rotary Lobe Pumps from Boerger!

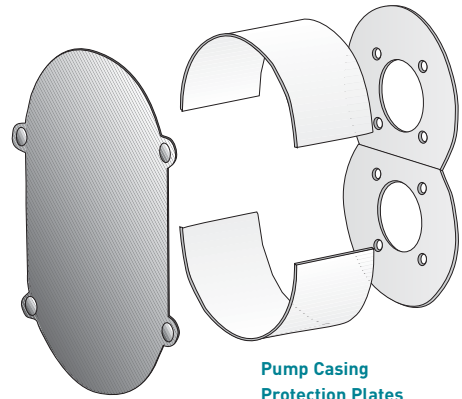
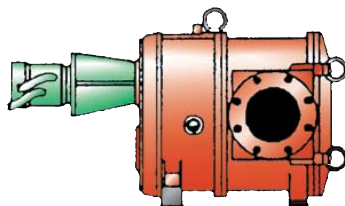
The marine industry demands reliable and robust pump units. The wide range of pump sizes, the option loaded modular design and the peripheral equipment enable Boerger to supply a suitable Rotary Lobe Pump for your pump application. The compact, space saving construction of the Boerger Pumps fits the limited space situations on ships very well.

The Boerger MIP-Design is a unique advantage to minimize downtime and maintenance: MIP (Maintenance In Place) allows the quick and convenient replacement of all fluid wetted parts without removal of pipes, drives or other components of the pump unit by your own staff. Quick – Uncomplicated – Inexpensive.

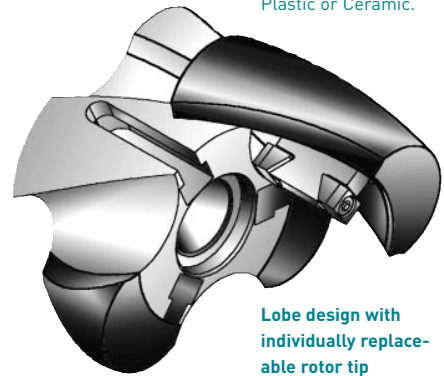
Reversible Flow
The direction of rotation/
fluid flow is reversible.



Pump with Hydraulic Motor
Space saving and reliable is the Boerger Rotary Lobe Pump driven by close coupled hydraulic motor.



**Pump Casing
Protection Plates**
Optional materials from
Hardox, Stainless Steel,
Plastic or Ceramic.



Lobe design with individually replaceable rotor tip
Uncomplicated maintenance and inexpensive repair with rotor tips.

For various fluids like oils, bilge, seawater, sludge or sewage the flexible pumping systems made by Boerger meet the high expectations in marine applications. Robust design, longevity, reversible flow, these are favourable features and the maintenance friendly MIP-Design allows uncomplicated and quick repairs on board.

Worldwide unique and exclusive from Boerger: Unrivalled MIP-Design reduces life cycle cost and downtime.





Oil sludge / Seawater / Bilge / Sewage | A Hamburg shipyard has equipped several ships with mobile Boerger Pumps fitted on hand trolleys for various applications. The carts are customized in order to fit through the small gangways on the ships. Low operating costs and high reliability convinced the shipyard.

TECHNICAL SPECIFICATION

Pump	AL mobile
Flow Rate	2.5–5 m ³ /h, 11–22 usgpm
Pressure	3 bar, 44 psi
Power	1.5 kW, 2 HP



Sewage with Seawater | The Lloyd Shipyard ordered Boerger Rotary Lobe Pumps for small packaged sewage treatment systems: The low weight, the compact design and the maintenance friendliness as well as the increased safety with overpressure protection system were key. The aggressive mixture of sewage and seawater required MIP Radial Liners from stainless steel.

TECHNICAL SPECIFICATION

Pump	CL 390
Flow Rate	60 m ³ /h, 264 usgpm
Pressure	3 bar, 44 psi
Power	12.6 kW, 16.8 HP



Oil / Seawater (Oil Spill) | For oil spill response the coastguard ship Neuwerk fights environmental catastrophes with Boerger Pumps. Oil can be primed from the sea surface or from skimmers, the water-oil-mixture is separated on board, the water phase is discharged back into the sea. Downtimes are extremely critical. The pumps have to be seawater-resistant and reversible.

TECHNICAL SPECIFICATION

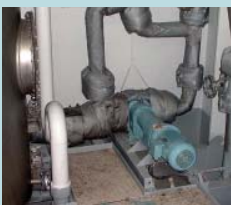
Pump	FLA 1540
Flow Rate	320 m ³ /h, 1409 usgpm
Pressure	6 bar, 87 psi
Power	78 kW, 104 HP



Liquid Waste from Ships | The vessel Arnela of a Hamburg supply boat company was equipped with a Boerger Rotary Lobe Pump with variable speed geared motor to collect liquid waste from large ships. High demand in material resistance was specified for pumping bilge, oil and seawater. The pump features maintenance friendliness and reliability.

TECHNICAL SPECIFICATION

Pump	FL 776
Flow Rate	150 m ³ /h, 660 usgpm
Pressure	4 bar, 58 psi
Power	30 kW, 40 HP



Sewage / Bilge / Waste Oil | A shipyard uses Boerger Rotary Lobe Pumps at small vessels for the collection of sewage, bilge and waste oil. Various fluids and heavy-duty operating conditions require robust pumps. BOERGER excelled with reliable technology and easy maintenance. Also the navy is using this technology.

TECHNICAL SPECIFICATION

Pump	PL 200
Flow Rate	30 m ³ /h, 132 usgpm
Pressure	2 bar, 29 psi
Power	4 kW, 5 HP



Bilge / Oil sludge / Seawater | The construction of a cruise ship required a solution for handling liquid waste on board. The engineers decided to install customized Boerger Rotary Lobe Pumps. The space saving design as well as the low maintenance costs were key to the decision to order six pump units.

TECHNICAL SPECIFICATION

Pump	AL 25, AL 50, PL 200
Flow Rate	2–25 m ³ /h, 9–110 usgpm
Pressure	2–3 bar, 29–44 psi
Power	0.5–4.8 kW, 0.67–21 HP



Oil Sludge / Seawater | A shipbuilding company in Hamburg needed a positive displacement pump for discharging oil sludge with sand particles. Due to the limited space the Boerger Rotary Lobe Pump in horizontal side mount proved to be ideal. Another reason for Boerger was the selection of a low speed pump for the abrasive sand content.

TECHNICAL SPECIFICATION

Pump	PL 200*
Flow Rate	20 m ³ /h, 88 usgpm
Pressure	5 bar, 72 psi
Power	5.5 kW, 7.5 HP

* side mounted

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