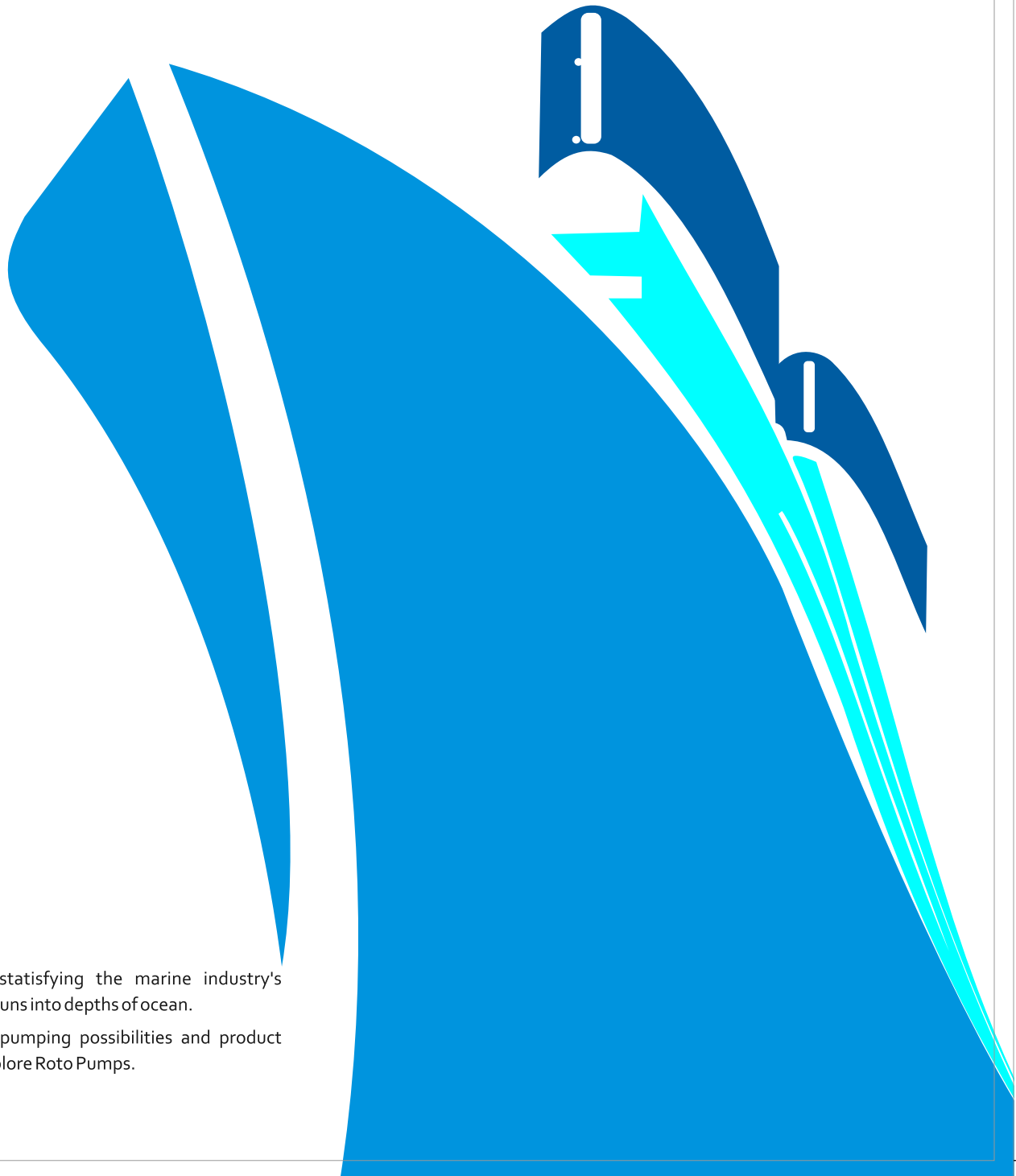




Simpler. Smarter pumping solutions  
for marine industry



Our commitment to satisfying the marine industry's  
pumping requirements runs into depths of ocean.

With a wide range of pumping possibilities and product  
solutions, it's time to explore Roto Pumps.



## Pumping possibilities for marine industry

With evolving needs for the marine industry from ship building to repair, the pump applications has emerged one of the critical area for performance. Roto Pumps offers marine industry's knowlege and understanding to take on this challenge to provide efficient pumps for harsh onboard conditions on the ship building and naval industries.

### Roto Capabilities for Marine Industry

Roto Progressive Cavity Pumps and Twin Screw Pumps fulfill several applications needed in a ship.

Roto's Progressive Cavity Pumps are available in compact close coupled design with drives. In addition, they are also available in conventional bare shaft designs. The pumps are provided with thermal dry running protection device as an option.

Twin Screw Pumps are available, as a standard, with renewable liners and in line suction and discharge branches. These pumps can be configured both in internal bearing as well as external bearing design, to suit liquid characteristics with the options for sump heating. External bearing pumps can be completely steam jacketed or made suitable for steam/electric tracing.

Twin Screw Pumps are available in both horizontal and vertical configurations. All pumps can be supplied with ATEX certifications too. Twin Screw Pumps are available with gland packing/mechanical seal options and are also available with inbuilt relief valves.

### Class Requirements

Roto is capable of meeting various class requirements as specified for the ship from various agencies, such as:

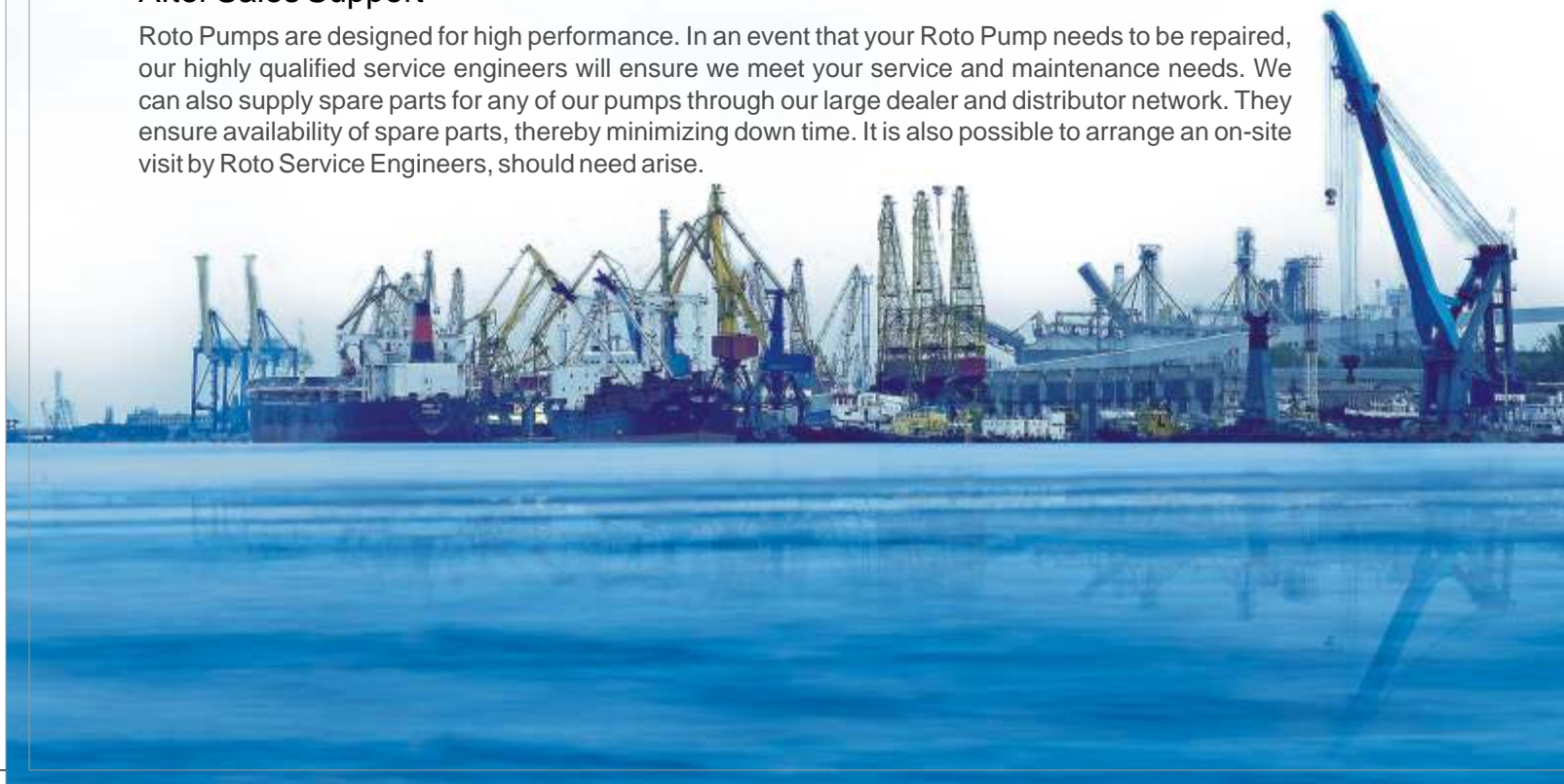
- Lloyds Register of Shipping (LRS)
- Det Norske Veritas (DNV)
- Germanischer Lloyd (GL)
- Bureau Veritas (BV)
- American Bureau of Shipping (ABS), etc.

### International Quality

Roto Pumps is a leading positive displacement pump manufacturer with over 40 years of experience of designing, manufacturing, testing and supplying of pumps and parts.

### After Sales Support

Roto Pumps are designed for high performance. In an event that your Roto Pump needs to be repaired, our highly qualified service engineers will ensure we meet your service and maintenance needs. We can also supply spare parts for any of our pumps through our large dealer and distributor network. They ensure availability of spare parts, thereby minimizing down time. It is also possible to arrange an on-site visit by Roto Service Engineers, should need arise.



## Applications

### Twin Screw Pumps

#### Performance Data

Capacity	800 M <sup>3</sup> /Hr
Temperature	350°C
Pressure	40 Bar
Viscosity	upto 10,000 Cst

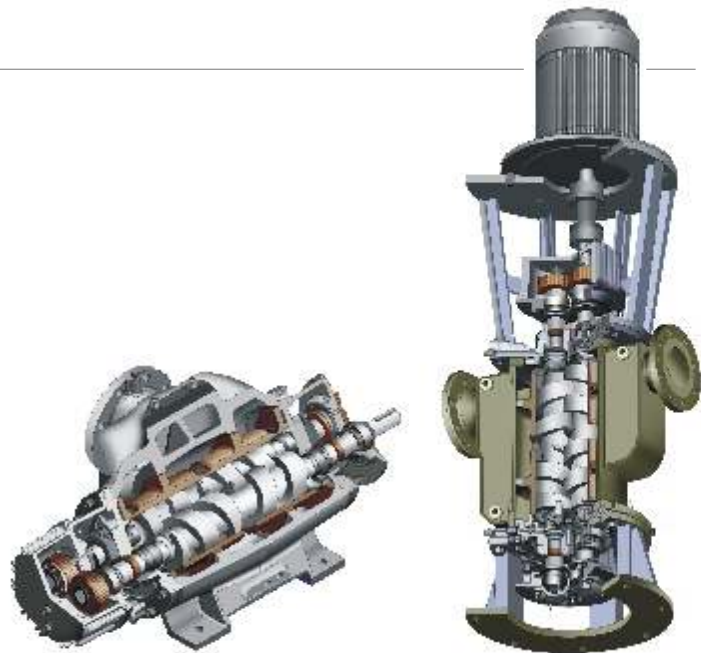
#### Application Areas

#### Cargo Pumping

- Fuel Oil
- Stripping
- Bitumen
- Pitch
- Molasses
- Glycol
- Vegetable Oils
- Chemicals

#### Engine Room Pumping

- Main Engine Lube Oil
- HFO Transfer
- Hydraulic Oil
- Diesel Oil



### Progressive Cavity Pumps

#### Performance Data

Capacity	345 M <sup>3</sup> /Hr
Temperature	150°C
Pressure	48 Bar
Viscosity	upto 30,000 Cst

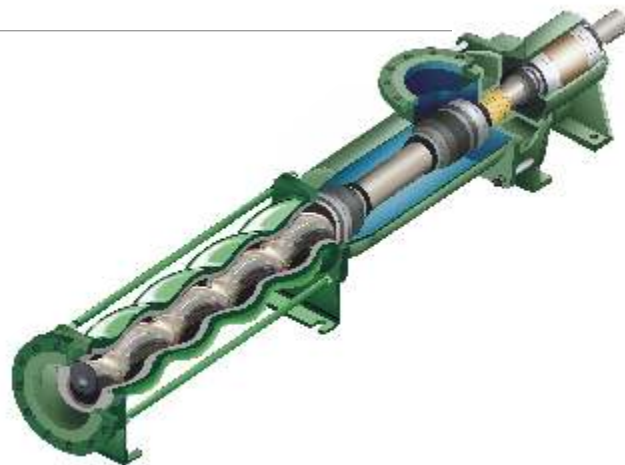
#### Application Areas

#### Cargo Pumping

- Mud
- Brine

#### Waste Management

- Sludge
- Bilge
- Sewage
- Waste Oil



## Material of Construction

Available materials for pump casing and liner components are Cast Iron, Cast Steel, and Cast Stainless Steel. Rotating Parts are supplied in Alloy steel, Nitrided Steel and Stainless Steel. There are wide choices of elastomers in progressive cavity pumps for handling different kind of fluids.

In addition to the material of construction listed above, Roto Pumps also offers the option of providing pump body in welded steel construction. For abrasive and corrosive applications the pumps can be supplied with special coating for better wear and corrosion resistance.

## PREFERRED CHOICE OF OEM

Roto provides detailed engineering and technical support i.e. complete pump solutions to various marine OEMs to ensure successful development of their equipments.



Feeding dirty oil for incineration



Feeding oily water for separation



Roto's Manufacturing Plant

### Strong Manufacturing Base

Roto's new integrated manufacturing plant with an in-house Polymer unit and its other plant at Duty Free Zone at Noida are spread over 20,000 sq. mtrs. The plants have sophisticated machine tools & testing facilities that ensure a consistent world-class quality products matching today's demanding customer expectations. All critical components are manufactured in-house to ensure 100% quality conformance. Roto's state-of-the-art R&D facilities translate concepts to prototypes and prototypes into final products. Headed by some of the world's finest pump professionals, it is equipped with a battery of solid H stations and sophisticated Test beds with Data Acquisition & Analysis Systems, to ensure a comprehensive validation of pump designs.

Roto's world class products are available through its own Warehouse - Marketing offices in Australia and the U.K, along with a strong network of dedicated distributors spread across the globe.

### Over 40 years of fluid engineering expertise

Roto's application expertise has been gained over four decades in providing fluid engineering solutions to more than 4000 customers world-wide. The Roto excellence spanning over 1500 types of fluids, is a valuable asset for you to bank upon for more efficient and cost effective solutions to your fluid handling requirements.



U.K. Office



Corporate Office & Export Warehouse  
at Duty Free Zone, Noida



Australia Office

# ROTO PUMPS LTD.

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