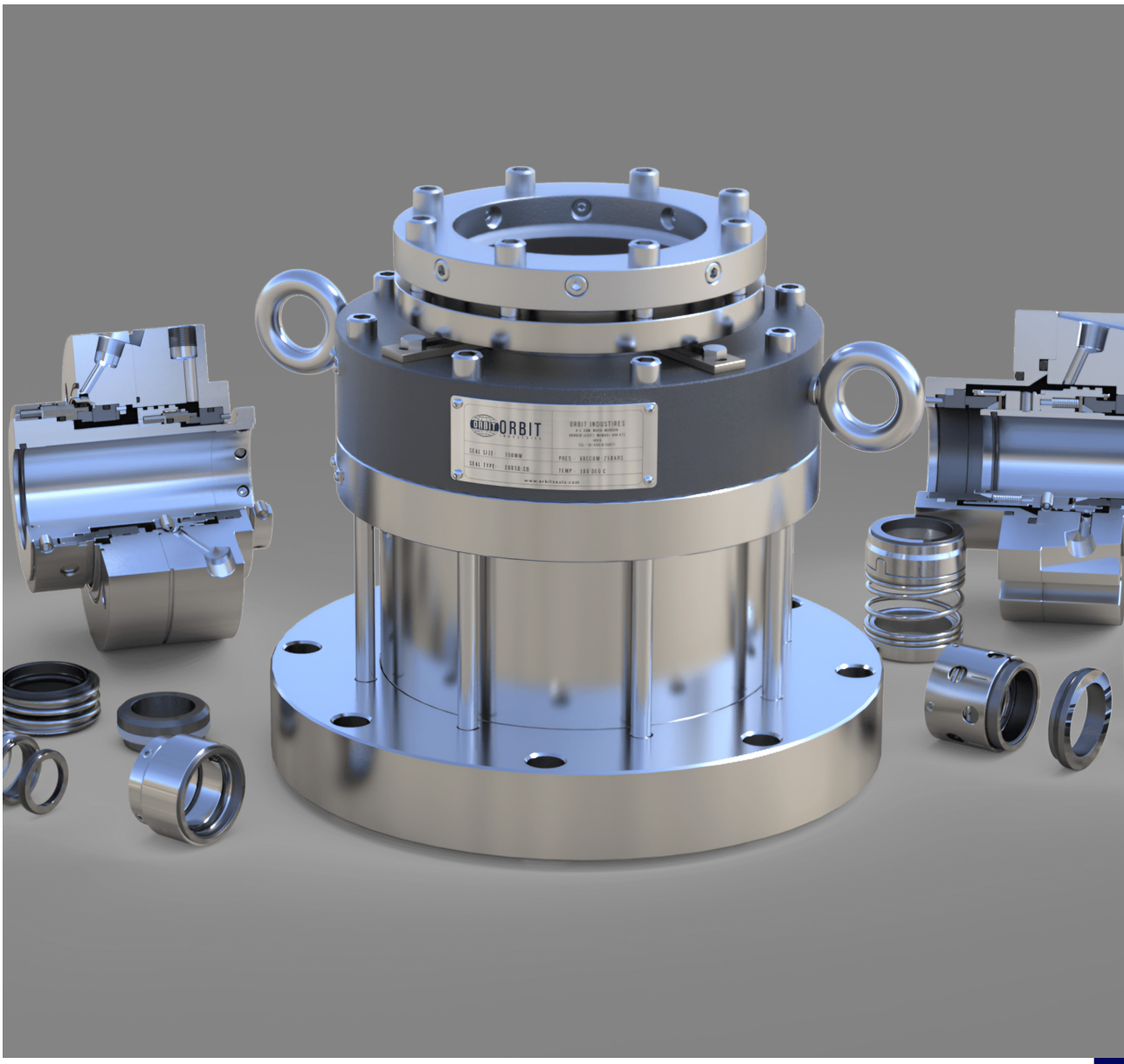
Paradyne Services



Marine Rotating
Equipment Sealing Solutions

Retrofit Seal Kits for Marine Rotating Equipment

Pumps
Gearboxes
Propulsion Systems

Marine Rotating Equipment Sealing Solutions

Marine rotating equipment operates under continuous loads, constant vibration, and harsh environmental conditions. Over time, critical sealing components such as O-rings, shaft seals, and gaskets gradually degrade. This deterioration can result in leakage, contamination, reduced performance, and increased maintenance requirements.

Typical Issues

- Shaft Seal Leakage
- Elastomer Degradation
- Oil Contamination
- Seal Wear from Rotating Shafts
- Pressure and Temperature Cycling

Retrofit Sealing Solutions

Retrofit seal kits provide replacement sealing components used during maintenance and overhaul of marine rotating equipment.

Typical kit Contents

- O-rings
- Rotary Shaft Seals
- Backup Rings
- Gaskets
- Auxiliary Sealing Components

Sealing Components Supplied

Retrofit seal kits provide replacement sealing components used during maintenance and overhaul of marine rotating equipment.

O-rings

Circular seals used to prevent fluid or gas leakage between mating surfaces.

Rotary Shaft Seals

Seals designed to prevent leakage around rotating shafts.

Backup Rings

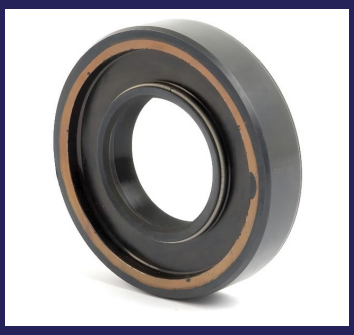
Reinforce O-rings to prevent extrusion under high pressure.

Gaskets

Flat seals placed between surfaces to prevent leakage of fluids or gases.

Elastomer Seals

Flexible rubber-like seals that accommodate movement and pressure changes.



Auxiliary Seals

Secondary seals used to support primary sealing systems and enhance performance.

High-Performance Sealing Materials

Engineering Materials

- PTFE (Polytetrafluoroethylene)
- Filled PTFE Compounds
- Backup Ring Materials

Common Elastomers

- NBR (Nitrile Butadiene Rubber)
- HNBR (Hydrogenated Nitrile Butadiene Rubber)
- FKM (Fluoroelastomer)
- EPDM (Ethylene Propylene Diene Monomer)

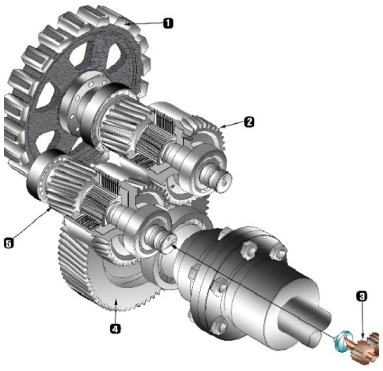
Typical Equipment Applications

Propulsion Thrusters

Azimuth · Tunnel · DP Integration

Marine Pumps

Transfer · Ballast · Cooling

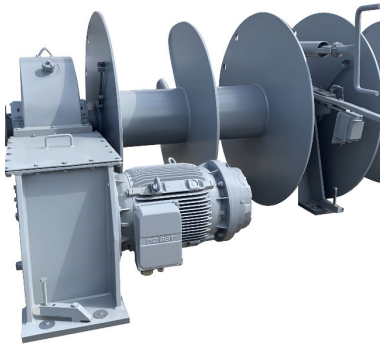


Gearboxes

Reduction · Torque Transmission · Load Capacity.

Rotating Deck Machinery

Lifting · Mooring · Handling



Component Identification

Components are selected based on OEM references and operational requirements.

Key Steps

01. Equipment Type and Model

02. OEM Reference Numbers

03. Dimensional Verification

04. Material Specification

05. Retrofit Kit Assembly

Request a Quotation

To ensure a precise and efficient response, please provide the information below. This allows proper assessment of specifications and operating conditions.

- Equipment type
- Model & serial number
- OEM reference (if available)
- Dimensions / Drawings
- Operating conditions

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