

# CARCO®

Large diameter seals and packings



■ FIN STABILIZERS



■ THRUSTERS

■ RUDDERS



■ GEARBOXES

■ FLEXIBLE COUPLING



■ ANCHOR WINCHES

■ OTHER APPLICATIONS

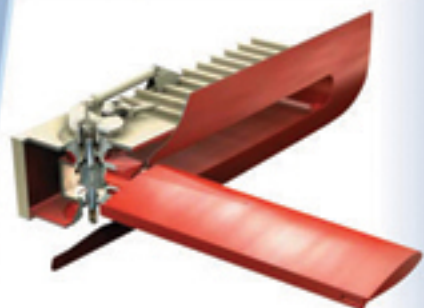
**PRP**

Composite Seals

MARINE INDUSTRY SEALS

## ■ FIN STABILIZERS

Full equipment for stabilizers

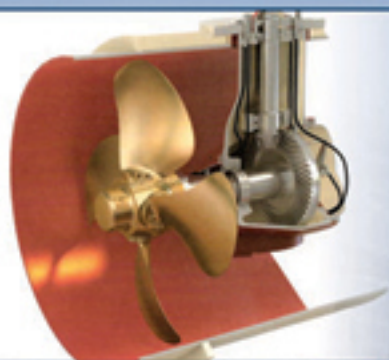


- Upper Trunnion seal
- Lower Trunnion seal
- Main Seal
- Cam Engine



## ■ THRUSTERS

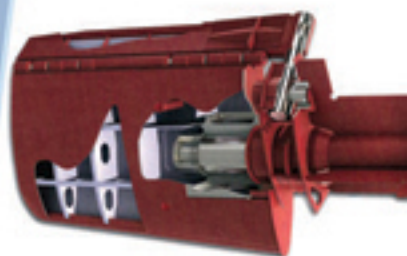
Controllable and fixed pitch propeller



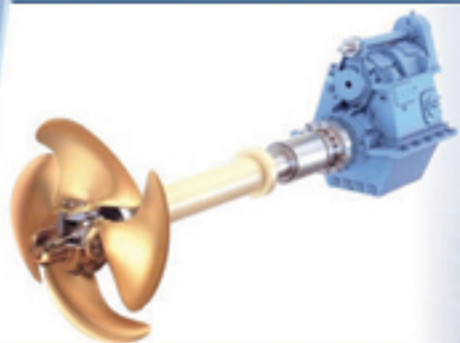
## ■ AZIMUTHING



## ■ RUDDERS



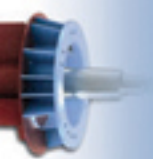
## ■ PROPELLERS



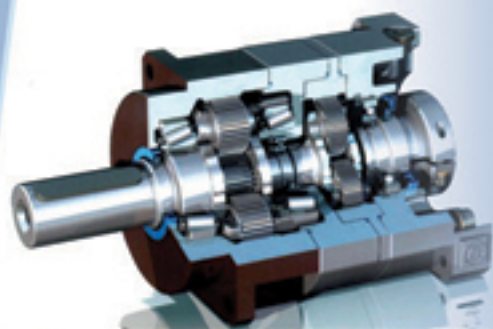
# FOR



THRUSTERS



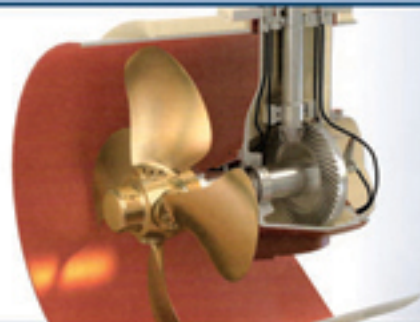
■ REDUCTION GEARBOXES



■ DECK MACHINERY



■ TUNNEL THRUSTERS



ANY KIND OF SHIP



**Piston**



**Guide**



**Rod**



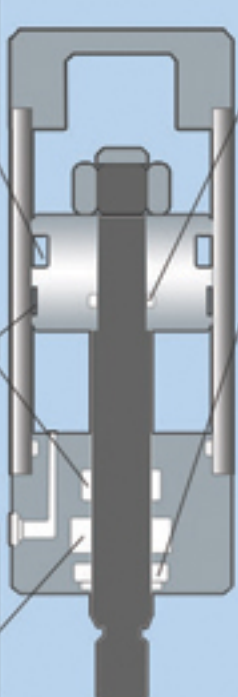
**O-Ring**



**Wipers**



**Others**



**PRP 01-02:** A double-acting sealing elements energized by an O-Ring .

**PRP 11-12:** Single-acting sealing elements .

**PRP 31-32:** A double-acting rod/Piston seals designed for reciprocating or holical applications.

**PRP 41-42:** A true slipper seals.

**PRP 51-52:** Used to seal rods, axles, rotary swivels and steering units with rotary, holical or oscillating movement.

**PRP 21D:** Double effect scraper.

**PRP 21A:** A solid ring with a scraper lip contact, activated by an O-Ring.

**PRP 21B:** A solid ring with dual scraper lip contact.

**PRP O-RING:** The O-Ring is the most simple seal, used in static and dynamic sealing applications.

**Composite Seals**



**PRP Q-RING:** Self energizing double-acting sealing elements .

**PRP 71-72:** Back-up Rings used to protect seals from the effects of extrusion .

**PRP 81/82:** PTFE, Duratex or Tufcot wear rings.

**PRP 61-62:** Single acting sealing element for medium to high-pressure, ideally suited to high speed reciprocating.

**PRP 65:** Single - acting sealing element for rotating movement.

**PRP 66-67 - 68-69:** A single acting sealing elements optimised for sealing high -pressure fluid and gas.

**Products**

CarcoTex

CarcoSeal

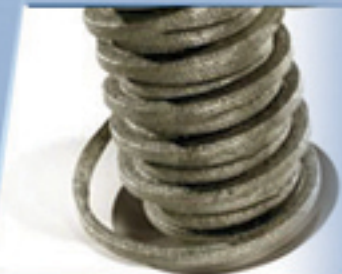
PRP

CarcoSpecial

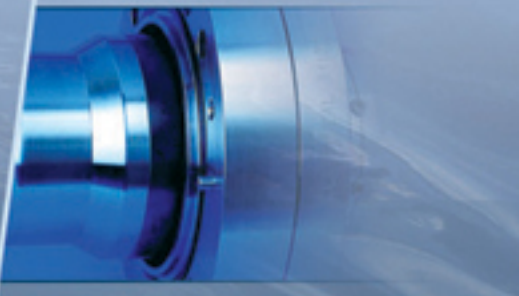
**INFLATABLE SEALS**



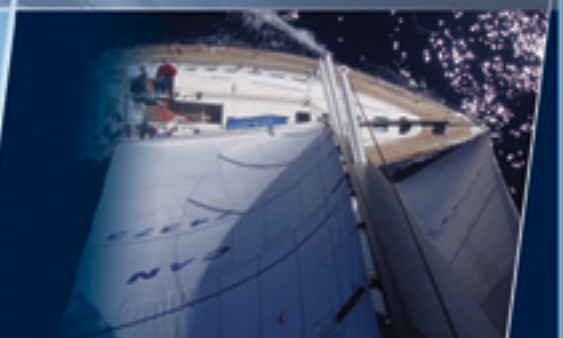
**BRAIDED PACKINGS**



**MECHANICAL SEALS**



**SHIP**



CarcoTex

CarcoSeal

PRP

CarcoSpecial

C a r c o T e x

All Carcotex Vee packing female adapter are reinforced with Kevlar.



UN

The classic hydraulic Vee packing composed by Vee elements made of fabric proofed rubber compressed between two terminals.



SG

Vee packing with leak-free male adapter suitable for misaligned pistons even at low pressure condition.



UG

Provides the best solution for housings with minimal axial size.



SP

Exclusive packing suitable for heavy duty applications with pressure up to 63 Mpa also in presence of lateral thrust and heavy shock loads.



SP/SG

Leak-free performance in cases of worn rams and large misalignment.



WIP

Scraper recommended for abrasive dust environment in order to prevent impurities entering.

C a r c o S e a l

All CarcoSeal undergo our exclusive Carcoflon surface treatment which gives friction and heat generation reduction.



UN

By far the most popular covering the majority of applications.



UN/SF

Special reinforced seal back suitable for housing without retaining plates.



UN/LA

Offers protection to the bearing from risk of damage by abrasive particles, scale and dust.



SCA

Where two seals are fitted (back to back) SCA has a peripheral groove and radial ports thus allowing inlet of lubricant to avoid dry running.



SCA/SF

The same of SCA made in a special reinforced seal back, suitable for housing without retaining plates.



TM

CarcoSeal/TM seals are installed behind the cutting head to protect the bearings from water, slurries, highly abrasive dust and sand.



UN/LL

The lip is of a special geometry capable of sealing satisfactorily even large clearances and eccentricities.



UN/LA/SF

All the carcoSeal UN advantages combined with V-Ring protection.



ATLMP

Special rotary shaft seal designed to minimize damage during the fitting operation.



LDS

Axial seal suitable to perform with the maximum values of eccentricity.



AP/WT

Designed to operate under pressure, with modified lip design.



V-Ring

Available in most popular styles. It seals axially against a counterface. Has been proved to be reliable against dust, dirt, water and oil splash and other media.

CarcoSpecial



A flexible torque-transmitting element for tying the driven member of a flexible coupling to the driving member.

Flexible Coupling

PRP



Composite Seals

Our technical department is at your disposal to provide a customized sealing solution to satisfy any requirements. CARCO can also supply : Inflatable Seals, Mechanical Seals, Braided Packing and Elastomeric Vibration Isolators.

# CARCO®

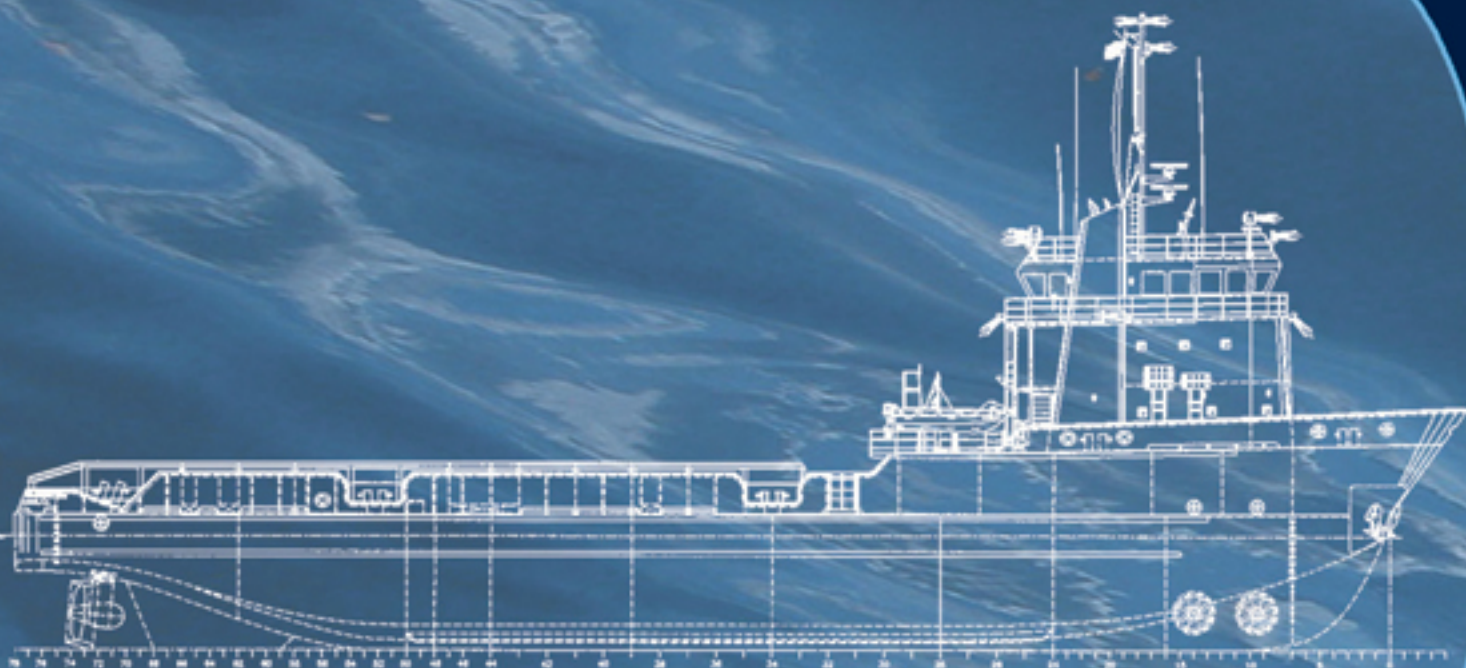
Large diameter seals and packings

# PRP

Composite Seals

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email: info@carco.it

[www.carco.seal.com](http://www.carco.seal.com)



*Problem solving is a challenge we enjoy.*

### **Testing Capabilities**

We are able to analyze the most critical applications and parameters that influence the seals system with our test rigs for rotary shaft seals (up to  $\varnothing$  500mm) and for Vee-Packings. We supplement our in-house research facilities with those at University and other centres of excellence.

### **Technical Support Engineering Capabilities**

Our technical department and Application Engineers are always ready to listen to the customer's requirements and understand his needs in order to provide the correct solution. CARCO enhances the value of its products with technical services and, if there is the need, comprehensive training programs.

### **Quality assurance**

Quality, at Carco, is a principle which is integral in every aspect of our activities. It is the service we supply to our customer. The CARCO Quality System is committed to following the prescriptive requirements of ISO Standard 9001:2000. 100% visual and dimensional controls are carried out on our products.

### **Fast Delivery Dedicated Team:**

Carco can offer very short lead time, from 1 week down to 1 day, also for large diameter.