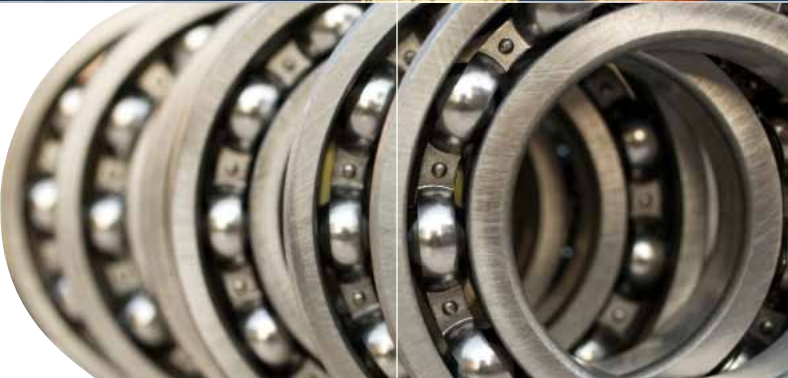




TSS Rotterdam BV

Technical products for Marine, Offshore and Industry





INTRO

TSS Rotterdam supplies equipment to Marine, Offshore and Industry

Ships and industry need to be kept operational for 24 hours a day. That's why a reliable supplier of technical products is of the utmost importance. Pumps, e-motors, compressors have to be replaced as quickly as possible when they break down. TSS Rotterdam BV supplies the required equipment and spare parts to Marine, Offshore and Industry. We have stocking points available for pumps, e-motors, compressors, bearings, shaft seals and valves and we take great care to maintain a high quality in the products we supply.

As a brand independent trading company we are dealing in both European and Asian equipment and related spare parts. Besides the replacement of equipment and spare parts, TSS Rotterdam also takes on 'special projects', which can be viewed on our website www.tssr.nl/special-projects

Strategic location and brand independent

TSS Rotterdam is strategically located in the ARA-region (Amsterdam, Rotterdam and Antwerp). Our warehouse and head office is located in

Schiedam at industrial estate "Vijfsluizen". Part of the famous Wilton Fijenoord Shipyard from 1929 until 1999, "Vijfsluizen" is centrally located between Vlaardingen and Schiedam, fifteen minutes from all major ports in Rotterdam. The ports of Amsterdam and Antwerp (Belgium) are both one hour away.

TSS Rotterdam operates brand independent and is known for its innovative and resourceful ways of dealing with the delivering of equipment and spare parts. We understand that time and money are limiting factors. TSS Rotterdam is not committed to one manufacturer, which means we can anticipate quickly and are flexible in our operations. We supply the requested equipment and spare parts from our stocking points, but are also able to find those hard-to-locate and critical parts you are looking for.

International network and a unique computer system

When it comes to logistics, TSS Rotterdam doesn't see any barriers, only challenges. Our products can be shipped worldwide by road, sea or air. Our international network extends through forwarders and shipping agents around the globe. We can ship the desired

products to your warehouse or deliver directly on board of your vessel, if necessary.

TSS Rotterdam uses a unique registration system. With this computer system, we create a client related database and/or vessel related database by registering each item we deliver. Our computer system creates a unique article number for each item shipped, which relates to the client and/or vessel. Our database enables us to provide better, faster and more reliable service to our clients.

Specialized knowledge and reliable service

With our years of experience in the replacement market and our in-house product specialists we are actively involved during the process of replacing equipment. TSS Rotterdam specialists with an extended knowledge of pumps, e-motors, bearings and power transmission are at your disposal. We know what you are talking about. We are able to offer reliable and high quality service due to our specialized knowledge and our familiarity with all the facets of the Maritime industry. TSS Rotterdam is your source for technical products from the ARA-region.



COUPLINGS & INSERTS

What is a coupling?

A coupling is a device used to connect two shafts together at their ends for the purpose of transmitting power. Couplings do not normally allow disconnection of shafts during operation, though there do exist torque limiting couplings which can slip or disconnect when some torque limit is exceeded. The primary purpose of couplings is to join two pieces of rotating equipment while permitting some degree of misalignment or end movement or both. By careful selection, installation and maintenance of couplings, substantial savings can be made in reduced maintenance costs and downtime.

Couplings can be categorized in 3 types of couplings:

- **Rigid couplings:** Rigid couplings are used when precise shaft alignment is required; shaft misalignment will affect the coupling's performance as well as its life
- **Flexible couplings:** Flexible couplings are designed to transmit torque while permitting some radial, axial, and angular misalignment. Flexible couplings can accommodate angular misalignment up to a few degrees and some parallel misalignment
- **Torque limiting couplings:** Torque limiting couplings protect systems against over-torque conditions.



Elastomeric Couplings
(for ex. Omega)



Torsionally Flexible
Couplings

Curved Jaw Couplings
(for ex. Rotex)



What type of couplings does TSS Rotterdam stock and supply?

TSS Rotterdam offers a wide range of couplings for marine and industrial applications. Our program includes various types of couplings such as:

- ✓ Elastomeric couplings
- ✓ Curved tooth couplings
- ✓ Torsionally flexible couplings
- ✓ Curved jaw couplings
- ✓ Rigid couplings

TSS Rotterdam keeps in stock most commonly used sizes and types therefore we guarantee short lead times.



Curved Jaw Couplings
(for ex.N-Eupex)



BASIC REQUIRED PARAMETERS TO SELECT A COUPLING:

- Which equipment is being driven? (for ex. pump & e-motor)	
- Power	kW
- Speed	RPM
- Shaft diameter (side 1, for ex. pump)	mm
- Shaft diameter (side 2, for ex. e-motor)	mm
- Installation dimensions (available space between equipment)	mm



Curved Toothed Couplings
(for ex.Bowex)



TSS Rotterdam BV

Product overview



Pumps (Centrifugal)



Drive Belts



Pumps (Positive Displacement)



Compressors (Air)



Pumps (Spare Parts)



Compressors (Refrigeration)



E-Motors



Cargo Hoses



Couplings & Inserts



Hydraulics



Bearings



Diesel Engines (Spare Parts)



Valves



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