



**Rolls-Royce**

## **Exchange pool for Bergen engines**

A system designed to save you money and reduce downtime wherever you are



## A proud tradition of support

A range of services focused on keeping vessels operating at peak efficiency.

Rolls-Royce has delivered worldwide for marine and land-based applications and is committed to delivering the best in through life support. A range of services are available for operators.



### Technical support

Our service engineers and specialists can be available 24/7 and allow us to offer 24-hour world-wide support wherever you are.



### Upgrades and retrofits

We are constantly improving our products, and offer a wide array of upgrades to improve reliability and reduce costs.



### Waterfront or field service

For quality work you can trust undertaken to compressed timescales, we bring our expertise to you.



### Parts exchange

Major engine components available around the world to reduce overhaul times.



### Customer training

We are committed to provide the best in training, and run a range of courses to ensure that ship engineering teams can maintain our products as designed.



### Planned maintenance services

Advanced maintenance planning keeps overhaul costs and vessel downtime to the minimum and allows accurate budgeting.

We understand that every user has different support needs, which is why we can customise these services to suit individual requirements, leaving customers free to concentrate on

running their business. To derive the best value we work in a proactive way with our customers. Only by sharing operating and maintenance schedules can we focus our attention on the

issues that affect availability, and therefore enhance the vessels or rigs revenue earning potential.

## The exchange pool concept

An approach to parts exchange that gives you access to a wide range of overhauled units from 12 global centres, including the Bergen factory.

The challenge of reduced time for scheduled dockings, plus fewer experienced engineering staff, means that there is often less time and on board resources available to undertake regular engine maintenance or overhauls. Rolls-Royce has developed the exchange pool as a time- and labour-saving alternative to conventional engine servicing. Partial engine overhauls can now be done during much shorter periods as they require fewer man hours to complete. Individual cylinder heads for example take around 12 hours to overhaul, using exchange units on a 9

cylinder engine will save around 100 man hours.

As the table shows, 10 key components or assemblies are available for a broad range of Bergen diesel and gas engines – current and former models. All are tested and assembled to stringent factory tolerances and are updated to the current specification. Any parts consumable that are found worn beyond specified limits during refurbishment are automatically replaced, your assurance of reliability with long service life.

### Supply and fit

Exchange components can be provided on a supply and fit basis, making engine overhauls and maintenance quick and hassle-free. As each component has its own price structure, costs that include labour can normally be fixed by the local Rolls-Royce centre, as long as the returned units are repairable. All work also carries a full warranty for additional peace of mind.

#### Engine models

**Bergen L series**

**Bergen K series**

**Bergen KV gas**

**Bergen B32:36 series**

**Bergen B32:40 series**

**Bergen C25:33L series**

**Bergen C26:33L gas**

#### Exchange pool components

- Cylinder Head
- Fuel Injection pump
- Fuel injection Body
- Governor/Actuator
- Chino Controller
- Lubricating oil pump
- Tandem gearwheel pump
- Vibration damper
- Start Air Valve
- Oil Mist Detector, measuring head and pressure reducer





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## Using the exchange pool guarantees quality and saves time

Take advantage of the exchange pool to cut costs, cut downtime and reduce parts inventories.

Using the exchange pool is an ideal way to reduce engine downtime while ensuring a top class overhaul, underpinned by a Rolls-Royce OEM warranty. Adopting our proven overhaul procedures will help maximize service life and reduce maintenance costs without compromising reliability. Pre-planning your maintenance is key, and there are a number of Bergen programmes to assist you in making the right decisions.

### Overhaul on the go for additional flexibility

There is a lot of flexibility built into the programme as components do not have to be collected and dropped off at the same location. Exchange components can be collected at one location and the removed units, ready for overhaul, dropped off at another. For example, a vessel sailing from Singapore to Houston can collect a set of cylinder heads in Singapore – the crew can undertake the work in transit and the removed cylinder heads dropped off on arrival in Houston, or any of the other exchange centres.

All users of Bergen engines can use the Exchange pool and accessing it is easy. Select your nearest Rolls-Royce service centre from the list and make contact providing the following information:

- Vessel name, engine(s) model and build number (s).
- The number and type of exchange components required.
- Preferred Rolls-Royce exchange centre for collection.
- Your date and time of arrival
- Preferred Rolls-Royce exchange centre for return.



Tandem Gearwheel Pump



Start Air Valve



Lube Oil Pump



Cylinder Head



Oil Mist Detector



Governor/Actuator



Vibration Damper



Fuel Injection Pump



Fuel Injection Body

# The global Bergen engine exchange network

The following designated Rolls-Royce service centres have facilities to allow for cylinder heads to be collected and returned to best accommodate a vessel's schedule. However, the availability of other parts at these Rolls-Royce service centres fluctuate, and parts availability can be negotiable depending on the customer's operating requirements, giving vessel owners significant flexibility.

## **Fort Lauderdale, USA**

10125 USA Today Way  
Miramar, Fort Lauderdale  
Florida 33025  
Tel: +1 954 436 7100

## **New Orleans, USA**

200 James Drive West  
St Rose, LA 70087  
Tel: +1 504 464 4561

## **St. John's, Canada**

142 Glenco Drive  
Mount Pearl  
Newfoundland A1N 4P7  
Tel: +1 709 748 7650

## **Seattle, USA**

1731 13th Ave SW  
Seattle, WA 98134  
Tel: +1 206 782 9190

## **Galveston, USA**

Pelican Island # 12  
2920 Todd Road  
Galveston, Texas 77554  
Tel: +1 409 765 4800

## **Dunfermline, Scotland UK**

Hillend Industrial Park  
Fife KY11 9JT  
Tel: +44 1383 82 31 88

## **Melbourne, Australia**

Unit 4, 344 Lorimer Street,  
Port Melbourne, Victoria  
3207, Australia  
Tel: +61 3 9873 0988

## **Singapore**

No 6, Tuas Drive 1  
Singapore 638673  
Tel: +65 686 21 901

## **Rotterdam, Netherlands**

Werfdijk 2 (Port 2828)  
3195 HV Pernis  
Tel: +31 10 40 90 920

## **Bergen, Norway**

Hordvikneset 125 5808  
Tel: +47 81 52 00 70  
+47 91 58 72 41  
(24hr emergency)

## **\*\* Rio de Janeiro, Brazil**

Ilha do Caju, 131  
24 040-005 Ponta da Areia,  
Niterói, RJ  
Tel: +55 21 3860 8787

## **\*\* Mumbai, India**

103, Windsor, Kalina  
Santacruz (East)  
Mumbai-400 098  
Tel: +91 22 6640 38 38

### **Exchange pool benefits**

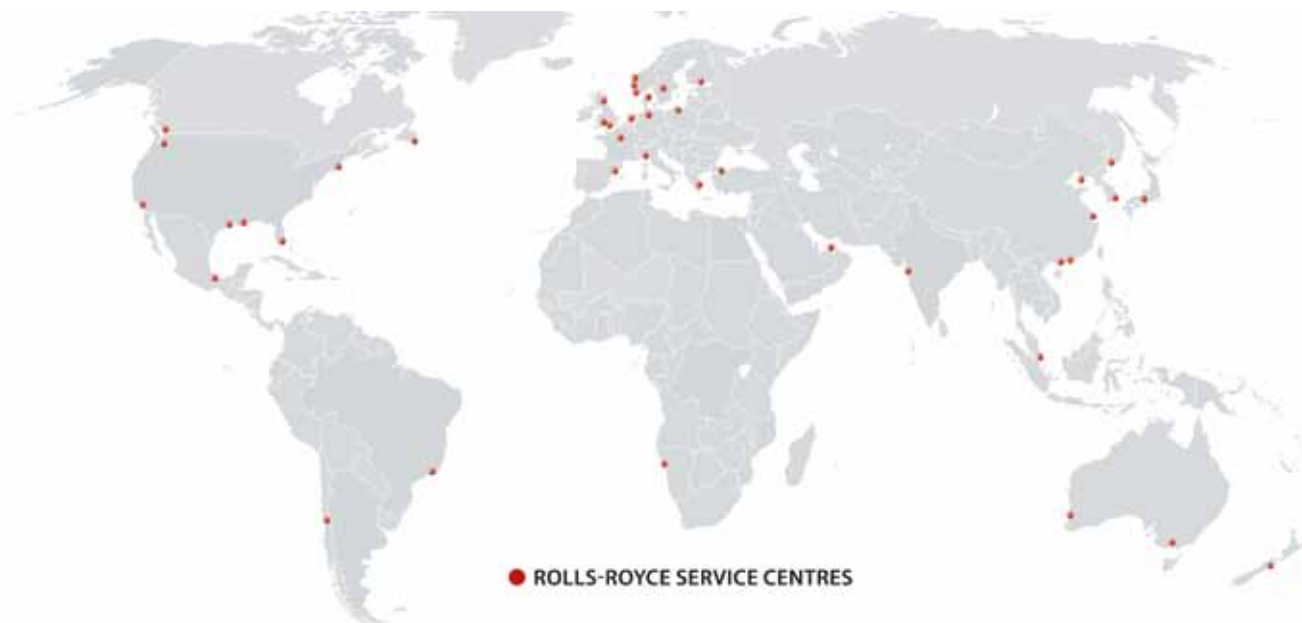
- Global – We can arrange for a container of parts to be available at your selected location and specified date and time
- Less downtime/fewer manhours – No stripping or repair of sub assemblies saves time enabling lengthy overhauls to be undertaken during short docking periods
- Flexibility – repairs or partial overhauls can be done during your next voyage. Select the collection and drop off point that suits your routing
- Quality – All components are overhauled to Rolls-Royce standards and come with full warranty. Any product improvements are incorporated to ensure maximum performance with long life
- No surprises – Each component comes with a standard price structure – you know the cost at the start for accurate budgeting
- Reduced spares inventory – fewer spares and tool holding required on board reduces investment
- Quick Response – Any of our 12 exchange centres can have normally have your consignment available within 4-6 weeks
- Minimal paperwork – Each order is made up of sub assemblies – no detailed parts lists required

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\*\* Exchange components must be installed at the dockside and cannot be exported loose due to customs restrictions prevailing at these locations

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# Contact your nearest local service office



## North America

Mexico: +1 521 229 958 7668

### Canada

Vancouver: +1 604 942 1100

St Johns: +1 709 748 7632

### USA

Seattle: +1 206 782 9190

Galveston: +1 409 765 4800

Los Angeles: +1 562 989 0291

New Orleans: +1 504 464 4561

Ft Lauderdale: +1 954 436 7100

### North America

(Naval) +1 508 668 9610

## Asia Pacific

### Australia

Melbourne: +61 3 9873 0988

Perth: +61 8 9336 7910

New Zealand: +64 3 962 1230

India: +91 22 6640 3838

Singapore: +65 6862 1901

## North East Asia

Korea: +82 51 831 4100

Japan: +81 78 652 8067

Russia: +7 4232 495 484

### China

Dalian: +86 411 8230 5198

Hong Kong: +852 2526 6937

Shanghai: +86 21 5818 8899

## South America

Brazil: +55 21 3860 8787

Chile: +56 2 586 4700

## Europe

Denmark: +45 9930 3600

Finland: +358 9 4730 3301

France: +33 1 468 62811

Germany: +49 40 381 277

Greece: +30 210 4599 688/9

Italy: +39 010 749 391

Netherlands: +31 1040 90920

Poland: +48 58 535 2525

Russia: +7 812 332 1855

Spain: +34 977 296 444

Sweden: +46 550 84000

Turkey: +90 216 663 6110

### United Kingdom

Dunfermline: +44 1383 823188

Bristol (Naval): +44 1179 797242

Norway: +47 8152 0070

Formerly ODIM: +47 9162 2336

## Africa & Middle East

UAE: +971 4 883 3881

Namibia: +264 64 218 6166

For more information, please contact your nearest Rolls-Royce service centre.



**Rolls-Royce®**

## Bergen Engines

### Rolls-Royce Marine AS

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