



Rolls-Royce



# MARINE

## GLOBAL SERVICE NETWORK

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ONE POINT OF CONTACT > MEETING YOUR NEEDS > FOCUSED ON TRAINING

## Global support is our business

Helping you manage the vital balance between operational availability and cost

Rolls-Royce is committed to supporting our customers to ensure vessels operate safely at design efficiency and unscheduled downtime is minimised.

Our commitment to ensuring vessels continually operate at their peak has led to the steady evolution of Rolls-Royce support

options. Conventional services range from the provision of spare parts, equipment repair, and exchange programmes, to upgrades improving vessel performance and efficiency while reducing emissions. Innovative new services, such as underwater intervention and condition monitoring have also been introduced.



> ENHANCING PERFORMANCE > ADVANCED SOLUTIONS > GLOBAL CAPABILITY

At the centre of our support philosophy is recognition that all customers have different and often unique requirements based on their fleet operations.

Whatever the mix of requirements, Rolls-Royce is committed to meeting them.

### **Our focus is the same as our customers'**

- Maximising operational efficiency and safer operations
- Preventing unscheduled downtime and loss of operation
- Bringing predictability to maintenance budgets
- Maximising asset utilisation and capability

- Enhancing crew skills
- Having the right support, in the right place, at the right time

### **Supporting well-known names**

Over the years, a number of well-known marine names have been integrated into the Rolls-Royce product portfolio, together with through-life support. Famous names include Odim, Aquamaster®, Kamewa®, Norwinch®, and Liaaen, plus many others continue to be supported globally. For a complete listing please go to [www.rolls-royce.com/marine/services](http://www.rolls-royce.com/marine/services)

# Marine global service network

## **Purpose built workshops**

The network of strategically located Rolls-Royce marine workshops and service centres ensures we can support our customers wherever they are operating. Our fully equipped service workshops are spread across five continents. Located close to the waterfront, we can undertake repairs on our largest products, providing a 'one stop' time-saving solution for major overhauls, repairs or maintenance. Services are tailored to customer requirements, providing rapid turnarounds to meet docking schedules, while working to ISO quality standards. All our repairs carry a full OEM warranty.

## **Regional service centres**

Our regional centres are manned by factory trained field service teams, each member with a specific product skill so our complete product range can be supported from each location. They can mobilise quickly, worldwide if necessary, and are your local hub for technical support and spares.

## **Containerised workshops**

At specific remote locations we maintain seasonal containerised workshops to facilitate prompt repairs. In Alaska, it operates

during the fishing months, and in Cleveland, Ohio supports customers on the Great Lakes during the operating period. They have full access to our product centres for spare parts and support.

## **Global distribution centres**

With warehouses in Rotterdam, Singapore and Houston, our Global Distribution Centres network, operated by our logistics partner Kuehne + Nagel, stocks a range of the most commonly-used parts, getting them much closer to where our customers are operating. This speeds up delivery times and helps reduce shipping costs.

## **Training centres**

Ålesund, Norway is our training hub, with facilities that include over 3,000m<sup>2</sup> of workshops and classrooms, complemented by the latest bridge and DP simulators. Smaller, but similar facilities in Singapore and the US enable the same courses to be run in support of customers' regional operations.

## **24/7 technical support**

For technical questions on any of our products there is one point of contact.

Please call: +31 20 700 6474 or email: [marine247support@rolls-royce.com](mailto:marine247support@rolls-royce.com)

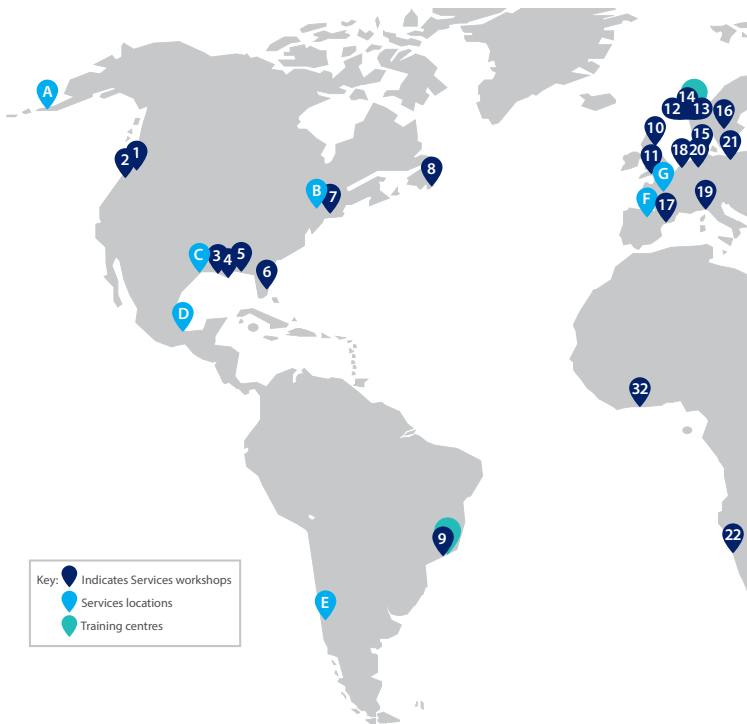


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# Global footprint

Wherever your vessel is located, Rolls-Royce is not far away.



Key:  
● Indicates Services workshops  
● Services locations  
● Training centres

## Service Workshops

### North & South America

1. Vancouver
2. Seattle, WA
3. Galveston, TX
4. St. Rose, LA
5. Pascagoula, MS
6. Fort Lauderdale, FL
7. Walpole, MA (Naval)
8. St John's
9. Rio de Janeiro

### Europe

10. Dunfermline
11. Portsmouth
12. Brattvaag
13. Bergen
14. Ulsteinvik
15. Aalborg
16. Kristinehamn
17. Tarragona
18. Rotterdam
19. Genoa
20. Hamburg
21. Gdynia

### Middle East, Africa, Asia

22. Walvis Bay
23. Dubai
24. Mumbai
25. Singapore
26. Guangzhou
27. Hong Kong
28. Shanghai
29. Busan
30. Perth
31. Melbourne
32. Abidjan

## Product Centres\*

- Bergen - (Engines)  
Bergen - (Power electric systems)  
Brattvaag - (Deck machinery)  
Dunfermline - (Stabilisers)

- Hagavik - (Steering gear)  
Hjørungavåg - (Seismic & subsea)  
Kokkola - (Waterjets)  
Kristinehamn - (Propellers)

- Longva - (Automation & control)  
Rauma - (Azimuth thrusters)  
Ulsteinvik - (Propellers & thrusters)




## Other Services Facilities

### Regional parts and Services personnel locations

A. Dutch Harbor, AK**	F. Bilbao	K. Dalian
B. Cleveland, OH**	G. Paris	L. Vladivostok
C. Houston, TX	H. St. Petersburg	M. Kobe
D. Veracruz & Cuida Del Carmen	I. Athens	N. Christchurch
E. Santiago	J. Istanbul	

### Training Centres

Ålesund	Rio de Janeiro	Singapore
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\* Product centres are not shown on map. Refer to  in directory.

\*\* Seasonal containerised workshops



## Products supported

Our regional service teams are equipped with the skills required to support our entire product range

Although our product range is one of the broadest in the marine sector, our global support network is equipped to support them all. Individual service engineers maintain a specific product or product family focus, and are regularly trained at our product centres. These skills are closely aligned with the equipment operating in that region.

When there is a service request, our back-office systems match the right engineer to the job.

This can significantly reduce troubleshooting times. When the need arises, for example complex in-situ overhauls, engineers can be brought together from other locations to form a dedicated team to carry out the work, working to an agreed project programme.

Our regional service centres are also the point of contact for ordering spare parts for all Rolls-Royce products, and carry a range of the more commonly used parts required for that region.



## Local skills to support the complete product range

- Diesel and gas engines
- Gas turbines
- Automation and control
- Bearings and seals
- Deck machinery solutions
- Electrical power systems
- Propulsors
- Reduction gears
- Syncrolift shiplifts and transfer systems
- Stabilisation and manoeuvring systems



## Advanced solutions

Investing in technologies and methods that optimise maintenance to save time and money, while reducing environmental impact

### **Underwater intervention**

Removing the need to drydock by bringing the service under the water line can save valuable time. Combining OEM experience with diving expertise minimises risk while developing innovative ways of working tailored to the vessel or rig.





## MarineCare

Different operational environments demand different levels of support. Our MarineCare service agreements are designed specific to each vessel and its operating profile, providing customers with planned and unplanned maintenance at an agreed annual fee. This offers customers peace of mind by providing

predictable maintenance costs, with unplanned maintenance minimised through the integration of advanced equipment health monitoring and management solutions. Our experts remotely monitor the condition of the equipment to increase availability and optimise maintenance planning, a solution that is increasingly being specified on our large thrusters.





## Enhancing performance

Continually evolving ways of integrating technological advances to enhance vessel efficiency and reduce emissions



### **Propeller reblading**

For older vessels, or where operational speed requirements have changed, reblading the propeller may bring significant fuel savings. We evaluate each installation and provide a detailed view of potential savings.





## Promas Lite

Promas Lite can bring improvements beyond conventional propeller reblading, as the propeller and rudder are treated as an integrated system to improve propulsive efficiency. This upgrade has demonstrated significant real-world improvements in propulsive efficiency, delivering a strong return on investment for our customers.



## Dynamic positioning

DP systems are now becoming standard on a growing number of vessels. We are able to offer the latest generation of DP systems as upgrades to meet the most demanding specifications. We use our design experience across the complete range of vessel systems to deliver comprehensive turnkey solutions.



## Ship efficiency management

We are currently developing a range of systems and services to support vessel operators and owners with the monitoring and management of vessel energy efficiency.

Fuel burn and emissions are monitored on the vessel and the data is also analysed onshore, providing operators with regular reports of the current performance and recommendations for future improvements.

## Automation & control systems

The rapid advance in software and hardware development means that systems can become outdated. Our upgrades deliver improved functionality and operational safety, while managing obsolescence issues and reducing the risk of unplanned downtime.





## Meeting your needs

Our global service team provides all the support you require to maintain effective fleet operations from key centres around the world

### **Spare parts logistics**

The use of genuine OEM spare parts is important to keeping equipment operating efficiently. To get parts closer to our customers and reduce transport times and costs, we have established a Global Distribution Network, with distribution centres located in the Netherlands, Houston and Singapore. It supports our regional operations where stock holding is limited. Trained and experienced spares

coordinators manage the parts ordering process, with focus on quick delivery. Our forwarders operate around the clock to save you time.

### **Equipment exchange programmes**

Our Bergen engine parts and thruster exchange pool guarantees quality and saves time. With effective planning, exchange components can be waiting on the dockside and promptly



fitted on arrival, significantly reducing engine overhaul times. Components can be changed-out on location, and the removed units, ready for overhaul dropped off at another, allowing certain tasks to be undertaken in transit. Thruster exchange, when used with our underwater intervention service, can be undertaken in virtually any port.

### **Containerised workshops**

Our containerised solutions aim to bring the necessary toolkit and parts to the vessel to minimise downtime. With effective planning, the container and engineers can be waiting at

the dockside so work can start as soon as the vessel arrives, reducing disruption to the vessel's schedule. Propeller blade repairs, thruster overhauls and hydraulic flushing services are available as containerised solutions.







# Focused on Training

Experienced and informed people are a key asset



Regular training ensures you get the most out of a vessel's equipment and systems, and that they are operated and maintained efficiently and safely. The latest simulators and products are available at our training centres in Norway and Singapore, for crew training prior to any new vessel deployment. A new training centre in the US will be operational in 2013.

We offer courses that are:

- Classroom based
- On board
- On-line

## Simulator training

Extensive use is made of simulators to ensure crews operate safely and efficiently. The centre at

Ålesund, Norway, has a full-scale 360° bridge simulator.

- Dynamic Positioning simulator – practice manoeuvring around an oil platform in all types of sea states. Replicated realistic situations using a complete operator station arranged as an aft bridge
- Simulator domes – allows users to train on a number of operations as they can be configured for systems or stand-alone operations like subsea, bridge, crane or winch operations
- Winch simulator – enhanced with the latest winch remote control and monitoring system to help crews learn how to handle complex winch operations.



## 24/7 Marine technical support



Getting through to the right people

With 24/7 technical support, you no longer have to search for the right point of contact. The team has direct access to our product centres should additional support be required. Our 24/7 technical support team handles your call from the time it is received to the time the issue is resolved. For the more complex issues, a product specialist will be assigned. Our priority is to get the right expertise quickly matched to the issue to provide the answers you need.

Contacting any of these numbers will put you through to our global support team

**Rotterdam:** + 31 20 700 6474

**Houston:** + 1 312 725 5727

**Singapore:** + 65 6818 5665

**Email:** [marine247support@rolls-royce.com](mailto:marine247support@rolls-royce.com)



Rolls-Royce



## Contact Information





# Contact Information

## Australia, Melbourne

Telephone	+ 61 396 444 700
Address	Unit 4, 344 Lorimer Street, Port Melbourne, VIC 3207, Australia
24-hr Emergency No.	+ 61 396 444 700

## Australia, Perth

Telephone	+ 61 8 9336 7910
Address	Unit 2, 8 Wallace Way, Fremantle WA 6160, Perth, Australia
24-Hr Emergency No.	+ 61 8 9336 7910

## Brazil, Rio de Janeiro

Telephone	+ 55 21 2707 5900
Email	<a href="mailto:brazil.support@rolls-royce.com">brazil.support@rolls-royce.com</a>
Address	Ilha do Caju, 131, CEP 24. 040-005 - Ponta da Areia, Niterói, Brazil
24-Hr Emergency No.	+ 55 21 7101 1222

## Canada, St. John's

Telephone	+ 1 709 748 7650
Email	<a href="mailto:marine.stjohns@rolls-royce.com">marine.stjohns@rolls-royce.com</a>
Address	142 Glencoe Drive, Mount Pearl, Newfoundland A1N 4S9, Canada
24-hr Emergency No.	+ 1 709 687 1673

## Canada, Vancouver

Telephone	+ 1 604 942 1100
Email	<a href="mailto:service.vancouver@rolls-royce.com">service.vancouver@rolls-royce.com</a>
Address	96 North Bend Street, Coquitlam BC, V3K 6H1, Canada
24-hr Emergency No.	+ 1 604 365 7157





## Chile, Santiago

Telephone	+ 56 2 586 4700
Email	admin.chile@rolls-royce.com
Address	Alcántara 200, 13th Floor, Office 1303, 755, 0159 Las Condes, Santiago, Chile

## China, Dalian


Telephone	+ 86 411 8230 5198
Address	1204/1206 Swisshotel, 21 Wu Hui Road, 116001 Dalian, China
24-Hr Emergency No.	+ 86 135 0173 0172

## China, Guangzhou

Telephone	+ 86 20 8491 1696
Email	service.shanghai@rolls-royce.com
Address	Rolls-Royce Marine Manufacturing (Shanghai) Ltd-Guangzhou Branch No.107-4, Shiyu Road, Tianyi Village, Dongchong Town, Nansha District, Guangzhou 511475, China
24-Hr Emergency No.	+ 86 135 0173 0172

## China, Hong Kong

Telephone	+ 852 2526 6937
Email	service.hongkong@rolls-royce.com
Address	1-7 Sai Tso Wan Road, Tsing Yi Island, N.T., Hong Kong
24-Hr Emergency No.	+ 86 135 0173 0172

 Service workshops

 Product Centres

 Other Service Facilities

 Training Centres



## China, Shanghai

Telephone	+ 86 21 5818 8899
Email	service.shanghai@rolls-royce.com
Address	No. 1 Xuan Zhong Road - Xuan Qiao Town, Pudong New Area, Shanghai 201300, China
24-Hr Emergency No.	+ 86 135 0173 0172

## Cote d'Ivoire, Abidjan

Telephone	+ 225 5816 5622
Email	service.africa@rolls-royce.com
Address	Carena Ship Repair, Boulevard de la Paix, Baie du Banco, 01 BP 453 Abidjan 01, Cote d'Ivoire

## Denmark, Aalborg

Telephone	+ 45 9930 3600
Email	service.denmark@rolls-royce.com
Address	Værftsvej 23, 9000 Aalborg, Denmark
24-Hr Emergency No.	+ 45 9930 3600

## Finland, Kokkola - Waterjets



Telephone	+ 358 6 832 4500
Email	service.kokkola@rolls-royce.com
Address	P.O. Box 579, FI-67701 Kokkola, Finland
24-Hr Emergency No.	+31 20 700 6474

## Finland, Rauma - Azimuth thrusters



Telephone	+358 2 83791
Email	techsup.finland@rolls-royce.com
Address	Suojantie 5, PO Box 220, 26100 Rauma, Finland
24-Hr Emergency No.	+ 358 2 8379 4722



## France, Paris

Telephone	+ 33 1 468 62811
Email	spare.paris@rolls-royce.com
Address	Immeuble Osaka, 15, rue du Jura - CP 20526, F-94150 Rungis Cedex, France

## Germany, Hamburg

Telephone	+ 49 40 780 9190
Email	service.hamburg@rolls-royce.com
Address	Fährstieg 9, D-21107 Hamburg, Germany
24-Hr Emergency No.	+ 49 40 7809 1918

## Greece, Athens

Telephone	+ 30 210 4599 688
Email	aftermarket.hellas@rolls-royce.com
Address	25 Poseidonos Avenue & Makrigianni, Moschato 18344, Greece
24-Hr Emergency No.	+ 39 348 4765 929

## India, Mumbai

Telephone	+ 91 22 6726 38 38
Email	marine.india@rolls-royce.com
Address	D/505 TTC Industrial Area, MIDC, Turbhe, Navi Mumbai, 400703, India
24-Hr Emergency No.	+ 91 773 877 5775

## Italy, Genoa

Telephone	+ 39 010 749 391
Email	genoa.marine@rolls-royce.com
Address	Via Castel Morrone, 13, 16161 Genoa, Italy
24-Hr Emergency No.	+ 39 348 4765929



## Japan, Kobe

Telephone	+ 81 78 652 8126
Email	service.japan@rolls-royce.com
Address	Yamasaki Building 1st & 2nd Floor, 1-15-11 Kinpei-cho, Hyogo-ku, Kobe-shi, Hyogo 652-0873, Japan

## Korea, Busan

Telephone	+ 82 51 831 4100
Email	service.korea@rolls-royce.com
Address	197, Noksansaneopbuk-ro, Gangseo-gu, Busan, 618-818, Korea
24-Hr Emergency No.	+ 65 6818 5665

## Mexico, Veracruz & Cuida Del Carmen

Telephone	+ 52 229 272 2240
Email	service.mexico@rolls-royce.com
Address	Edif. Torre del Pilar, Blvd Ruiz Cortinez, #3642, Boca del Rio, Veracruz 94299, Mexico
24-Hr Emergency No.	+ 52 229 272 2246

## Namibia, Walvis Bay

Telephone	+ 264 642 275 440
Email	service.namibia@rolls-royce.com
Address	P.O. Box 4414, Old Power Station, 2nd Street East, Walvis Bay, Namibia
24-Hr Emergency No.	+ 264 811 274 411

## Netherlands, Rotterdam

Telephone	+ 31 10 40 92 100
Email	Benelux.service@rolls-royce.com
Address	Werfdijk 2 (Port 2828), 3195 HV Pernis, The Netherlands
24-Hr Emergency No.	+31 6 51 53 15 28



## New Zealand, Christchurch

Telephone	+ 64 3 962 1230
Address	175 Waltham Road, Waltham, Christchurch, New Zealand

## Norway, Bergen - Engines



Telephone	+ 47 815 20 070
Email	service.bergen@rolls-royce.com
Address	P.O. Box 924 Sentrum, N-5808 Bergen, Norway
24-Hr Emergency No.	+ 47 55 53 64 00

## Norway, Bergen/Laksevaag

Telephone	+ 47 901 73 287
Email	laksevaag@rolls-royce.com
Address	Laksevaagneset 12, N-5160 Bergen, Norway
24-Hr Emergency No.	+ 47 901 19 316

## Norway, Bergen - Power electric systems



Telephone	+ 47 55 50 62 00
Email	pes_service@rolls-royce.com
Address	Postboks 80, Godvik, N-5882 Bergen, Norway
24-Hr Emergency No.	+ 47 976 58 929

## Norway, Brattvaag - Deck machinery



Telephone	+ 47 815 20 070
Email	service.dms@rolls-royce.com
Address	Aarsundveien 24, N-6270 Brattvaag, Norway
24-Hr Emergency No.	+ 47 911 85 818



## Norway, Hagavik - Steering gear



Telephone	+ 47 815 20 070
Email	hagavik@rolls-royce.com
Address	Ulvenveien 345, N-5220 Hagavik, Norway
24-Hr Emergency No.	+ 47 918 47 067

## Norway, Hjørungavåg - Seismic and subsea



Telephone	+ 47 70 01 33 00
Email	osc@rolls-royce.com
Address	P.O. Box 193, 6069 Hareid, Norway
24-Hr Emergency No.	+ 47 916 22 336

## Norway, Longva - Automation and control



Telephone	+ 47 70 20 82 14
Email	workshop.automation@rolls-royce.com
Address	Automation Longva, N-6293 Longva, Norway
24-Hr Emergency No.	+ 47 977 28 360

## Norway, Molde - Seismic



Telephone	+ 47 70 31 15 00
Email	P.O. Box 2009, 6402 Molde, Norway
24-Hr Emergency No.	+ 47 916 22 336

## Norway, Ulsteinvik - Propellers and thrusters



Telephone	+ 47 81 52 00 70
Email	service.propulsion.ulstein@rolls-royce.com
Address	P.O. Box 1522, N-6025 Ålesund, Norway
24-Hr Emergency No.	+ 47 900 10 997



## Poland, Gdynia

Telephone	+ 48 58 782 06 55
Email	service.poland@rolls-royce.com
Address	8 Kontenerowa Str, 81-155 Gdynia, Poland
24-Hr Emergency No.	+ 48 58 782 06 55

## Russia, St. Petersburg

Telephone	+7 812 313 75 51
Email	service.st-petersburg@rolls-royce.com
Address	Office 41H, 32, Nevsky pr., 191186 Saint-Petersburg, Russia
24-Hr Emergency No.	+7 961 803 31 81

## Russia, Vladivostok

Telephone	+ 7 4232 495 484
Address	5F, 3b, Streinikova str., Vladivostok 690065, Russia

## Singapore

Telephone	+ 65 6862 1901
Email	service.singapore@rolls-royce.com
Address	No. 6 Tuas Drive 1, Singapore 638673
24-Hr Emergency No.	+ 65 6818 5665

## Spain, Bilbao

Telephone	+ 34 944 805 216
Email	service.spain@rolls-royce.com spares-spain@rolls-royce.com
Address	Estartexe, 8 oficina E, 48940 Leioa - Vizcaya, Spain



## Spain, Tarragona

Telephone	+ 34 977 296 444
Email	service.tarragona@rolls-royce.com
Address	C/Dinamarca s/n (Pol. Ind. Constanti), 43120 Constanti. Tarragona Spain
24-Hr Emergency No.	+ 34 977 296 446

## Sweden, Kristinehamn - Propellers



Telephone	+ 46 550 840 00
Email	techsup.sweden@rolls-royce.com
Address	P.O. Box 1010, S-68129 Kristinehamn, Båtbyggarevägen 1, Sweden
24-Hr Emergency No.	+46 550 84100

## Turkey, Istanbul

Telephone	+ 90 216 446 9999
Email	service.turkey@rolls-royce.com
Address	Nazan Sok. No:2 Lagoon Plaza D:3, 34940 Tuzla, Istanbul, Turkey
24-Hr Emergency No.	+ 90 549 42 42 422

## U.A.E, Dubai

Telephone	+ 971 4 883 3881
Email	service.dubai@rolls-royce.com
Address	P.O. Box no - 261103, Oil Field Supply Centre, Shed no - 47 Jebel Ali free Zone. Dubai, U.A.E.
24-Hr Emergency No.	+ 971 5 0645 9170





## UK, Dunfermline - Stabilisers



Telephone	+ 44 1383 82 31 88
Email	aftermarket.dunfermline@rolls-royce.com
Address	Taxiway, Hillend Industrial Park, Dunfermline, Fife, KY11 9JT, UK
24-Hr Emergency No.	+ 44 7831 1671 38

## UK, Portsmouth

Telephone	+ 44 2392 310 000
Email	marineinfo@rolls-royce.com
Address	Northarbour Road, Cosham, Portsmouth, PO6 3TL, UK

## USA, Cleveland, OH

Containerised workshops are open during the operating period. Please contact Fort Lauderdale office. Tel. + 1 954 436 7100

## USA, Dutch Harbour, AK

Containerised workshops are open during the fishing months. Please contact Seattle office. Tel. + 1 206 782 9190

## USA, Fort Lauderdale, FL

Telephone	+ 1 954 436 7100
Email	service.florida@rolls-royce.com
Address	10125 USA Today Way, Miramar, FL 33025, USA
24-Hr Emergency No.	+ 1 954 436 7100



## USA, Galveston, TX

Telephone	+ 1 409 765 4800
Email	service.galveston@rolls-royce.com
Address	Pelican Island 1, 2929 Todd Road, Galveston, TX 77554, USA
24-Hr Emergency No.	+1 832 298 7804

## USA, Houston, TX

Telephone	+ 1 281 902 3300
Email	spares.americas@rolls-royce.com
Address	1880 South Dairy Ashford, Ashford Crossing II, Suite 301, Houston, TX 77077, USA

## USA, Pascagoula, MS

Telephone	+ 1 228 762 0728
Email	marineinfo@rolls-royce.com
Address	3719 Industrial Road, PO Box 1528, Pascagoula, MS 39567, USA
24-Hr Emergency No.	+ 1 228 381 0399

## USA, St. Rose, LA

Telephone	+ 1 504 464 4561
Email	service.nola@rolls-royce.com
Address	200 James Drive West, St Rose, LA 70087, USA
24-Hr Emergency No.	+ 1 504 464 4561



## USA, Seattle, WA

Telephone	+ 1 206 782 9190
Email	service.seattle@rolls-royce.com
Address	1731 13th Ave. SW, Seattle, WA 98134, USA
24-Hr Emergency No.	+ 1 206 499 8245

## USA, Walpole, MA

Telephone	+ 1 508 668 9610
Email	ServicesNA@rolls-royce.com
Address	110 Norfolk Street, Walpole, MA 02081, USA

## Norway, Ålesund - Training centre

Telephone	+ 47 70 23 51 00
Email	training.marine@rolls-royce.com
Address	Borgundveien 340, NO-6009 Ålesund, Norway

## Rio de Janeiro - Training centre

Telephone	+55 21 2707 59 00
Email	training.brazil@rolls-royce.com
Address	ILHA di Caju 131, 24040, 005 Ponta da Areia, Niterói, RJ Brazil

## Singapore - Training centre

Telephone	+65 6240 3333
Email	training.marine@rolls-royce.com
Address	6 Seletar Aerospace Rise, Singapore 797575





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## Service Workshops



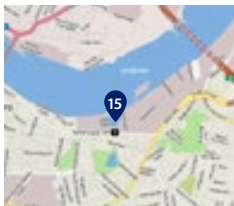
The Rotterdam service centre is located close to waterfront.



# Aalborg

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<b>Country</b>	Denmark
<b>Telephone</b>	+ 45 9930 3600
<b>Email</b>	service.denmark@rolls-royce.com
<b>Address</b>	Værftsvej 23, 9000 Aalborg, Denmark
<b>24-hr Emergency No.</b>	+ 45 9930 3600
<b>Workshop Size</b>	856 sq m





## Service Capabilities

- Fully equipped machine shop
- Part of the world wide cylinder head exchange pool programme

### Repair and overhaul of:

- Diesel engines
- Gas engines
- Gearbox
- Cylinder heads
- 4 stroke engines
- Electrical systems
- Automation & control systems
- Main switchboards
- Propulsion systems
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Azipulls
- Swing-ups
- Control systems, analog & digital
- Propellers (CPP and FPP)
- Blade polish and repair
- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic winch motor
- Winch brake cylinders
- Steering gear
- Non OEM thrusters

## Workshop Facts

- Total workshop area: 856 sq m
- Total storage area: 800 sq m
- 2 x 34 t cranes
- 2 x 10 t crane
- 5 t crane
- 2 t crane

## Machining Shop

- Milling machine, horizontal  
100 mm spindle
- 100 t pressing machine
- Universal milling machine
- Radial drill
- Surface grinder
- 2 m lathe
- 3 m lathe

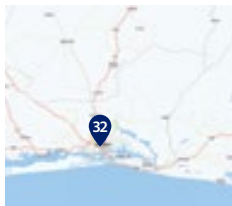




# Abidjan

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<b>Country</b>	Cote d'Ivoire
<b>Telephone</b>	+ 225 5816 5622
<b>Email</b>	service.africa@rolls-royce.com
<b>Address</b>	Carena Ship Repair, Boulevard de la Paix, Baie du Banco, 01 BP 453 Abidjan 01, Cote d'Ivoire







## Service Capabilities

### Repair and overhaul of:

- Diesel engines
- Gas engines
- Gearbox
- Compass thrusters
- Propulsion systems
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Swing-ups
- OD box
- Propellers (CPP)
- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Steering gear

## Workshop Facts

- Mobile containerised workshop
- Rolls-Royce Aquamaster, Kamewa, and Ulstein propulsion special tools and lifting and handling equipment
- Mechanical measuring and calibration equipment
- Hytorc hydraulic torque equipment
- SKF high pressure injectors & pumps and bearing heaters
- Bergen engines B, C and K special tools
- Containerised workshop, located at the dockside

Co-located at the Carena Ship Repair yard in Abidjan, there is an easy access to general machining, mechanical, hydraulic and electrical workshops, and steelwork, welding, NDT, fabrication, pipework, blasting and painting facilities.

## Docking capabilities

	Dock 1	Dock 2	Slipway 1	Slipway 2
Dimensions (m)	116 x 32 x 7 (draught)	76 x 15 x 5 (draught)	25 x 6 x 2.5	30 x 9 x 2.5
Lifting capacity (metric tons)	10.000	2.000	80	300

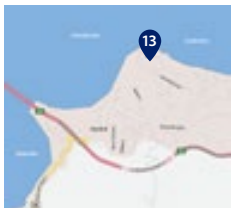




# Bergen - Engines

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<b>Country</b>	Norway
<b>Telephone</b>	+ 47 815 20 070
<b>Email</b>	service.bergen@rolls-royce.com
<b>Address</b>	P.O. Box 924 Sentrum, N-5808 Bergen, Norway
<b>24-hr Emergency No.</b>	+ 47 55 53 64 00
<b>Workshop Size</b>	1000 sq m





## Service Capabilities

- Fully equipped machine shop
- Part of the world wide exchange pool programme

### Repair and overhaul of:

- Diesel engines
- Gas engines
- Cylinder heads
- Fuel injection
- Fuel pump testing & calibration

## Workshop Facts

- Total workshop area: 1000 sq m
- 3 x 0.5 t swing crane
- 3 x 0.5 t overhead crane
- 12.5 t crane
- 60 t overhead crane
- Fuel injector test/calibration rig
- Fuel injector pump test/calibration rig
- Welding area
- Cleaning area with two ultrasonic tanks
- Painting cabinet

## Machining Shop

- Honing machine for cylinder liners
- Lathe
- 2 x pillar drill
- Grinding machine for valve spindles
- Grinding equipment recess
- Cylinder block lower recess machining tool
- Band saw
- Lathe machine for valve seats
- Milling machine

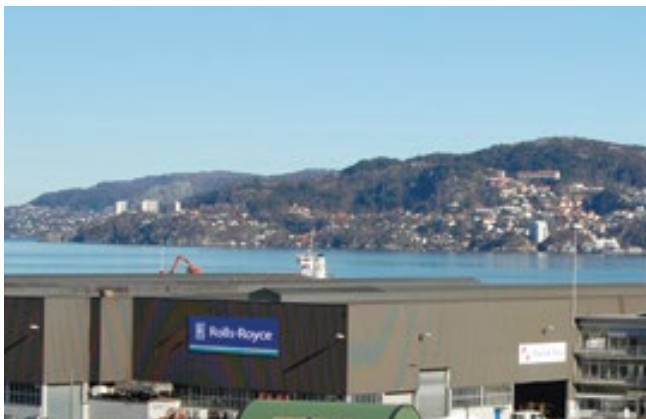
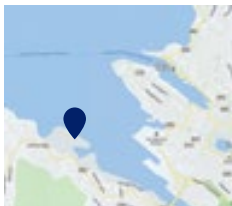




# Bergen/Laksevaag

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<b>Country</b>	Norway
<b>Telephone</b>	+ 47 901 73 287
<b>Email</b>	laksevaag@rolls-royce.com
<b>Address</b>	Laksevaagneset 12, N-5160 Bergen, Norway
<b>24-hr Emergency No.</b>	+ 47 901 19 316
<b>Workshop Size</b>	1340 sq m





## Service Capabilities

### Service support and workshop repair/overhaul for the full range of Rolls-Royce Marine products, including:

- Receiving and mooring of vessel
- Provision of shore power and a fresh water supply
- Receiving and storage (indoor/outdoor) of goods for vessel
- Handling of goods by forklifts
- Provision of mobile cranes for loading/unloading equipment/other from vessels
- Cooperation with vessel's agent and/or directly with vessel's management, captain and crew
- Waste disposal

## Workshop Facts

- Workshop floor loading: 20T / sq metre
- Access via 1 of 2 gates: Height 8m and 5m, width 5m
- Well equipped with compressed air points and electrical current 400V / 230V
- 1 Gantry crane SWL 25T, span 15m
- 1 Gantry crane SWL 16T, span 15m
- 1 Gantry crane SWL 8T, span 15m
- Under hook crane height: 8m

### An officially ISPS-Approved and registered quayside

- Quayside length: 250m
- Quayside draft: 8m
- Vessel protection: Yokohama fenders  $\varnothing$  2.5m X 3m
- Quayside power:
  - Quayside transformer
  - 400V/2000A
  - 690V/837A
  - Normal current contacts 400V/63A, and 230V etc.
- Fresh water supply
- Distance from quayside to workshop:
- Less than 100m
- Handling achieved by 12T forklift. Including a hydraulically operated wagon for up to 50T loads.

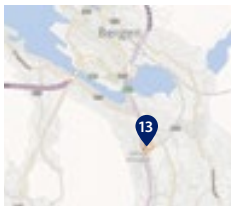




# Bergen - Power electric systems

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<b>Country</b>	Norway
<b>Telephone</b>	+ 47 55 50 62 00
<b>Email</b>	pes_service@rolls-royce.com
<b>Address</b>	Postboks 80, Godvik, N-5882 Bergen, Norway
<b>24-hr Emergency No.</b>	+ 47 976 58 929
<b>Workshop Size</b>	100 sq m





## Service Capabilities

### Repair and overhaul of:

- Electrical systems
- Automation & control systems
- Control systems, analog & digital
- Frequency converters

## Workshop Facts

- Tools and equipment for manufacturing frequency converters
- Repair and overhaul of frequency converters
- Test facilities for frequency converters

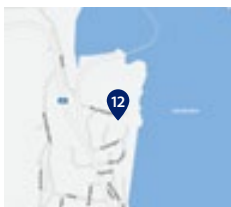




# Brattvaag - Deck machinery

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<b>Country</b>	Norway
<b>Telephone</b>	+ 47 815 20 070
<b>Email</b>	service.dmss@rolls-royce.com
<b>Address</b>	Aarsundveien 24, N-6270 Brattvaag, Norway
<b>24-hr Emergency No.</b>	+ 47 911 85 818
<b>Workshop Size</b>	500 sq m







## Service Capabilities

- Fully equipped machine shop

### Repair and overhaul of:

- Control systems, analog & digital
- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Oil & water pumps

- Hydraulic control valves
- Hydraulic winch motor
- Winch brake cylinders
- Steering gear
- Wire spooling
- Fukushima winches
- Deck cranes
- Frequency converters
- Electrical systems
- Control systems

## Workshop Facts

- Total workshop area: 500 sq m
- Quayside: 100 m
- Spooling winch in connection to quayside

- 16 t gantry crane
- Facilities for washing, sandblasting and painting

## Machining Shop

- Drilling machines
- Turning lathe

- Co-located with a fully equipped machine shop used for new production



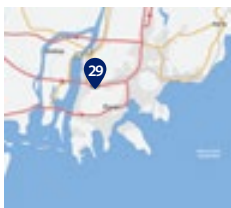


# Busan

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<b>Country</b>	Korea
<b>Telephone</b>	+ 82 51 831 4100
<b>Email</b>	service.korea@rolls-royce.com
<b>Address</b>	197, Noksansaneopbuk-ro, Gangseo-gu, Busan, 618-818, Korea
<b>24-Hr Emergency No.</b>	+65 6818 5665
<b>Workshop Size</b>	4489 sq m

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## Service Capabilities

### Repair and overhaul of:

- Tunnel thrusters
- Azimuthing thrusters
- UUC
- Propellers (CPP and FPP)
- Mooring winches
- Steering gear
- Non OEM thrusters

## Workshop Facts

- Total workshop area: 4489 sq m
- Total lifting capacity: 30 t
- Lifting height: 8m
- 3 x 2.8 t swing crane
- 2 x 2.0 t swing crane
- 2.8 t overhead crane
- 2 x 5 t overhead crane
- 2 x 10 t overhead crane
- 25 t overhead crane
- 30 t overhead crane
- 30 t gantry crane (Outdoor)
- 40 HP air compressor
- 7 t fork lifter
- 2.5 t fork lifter
- Separate washing area for cleaning of units and spare parts
- Separate painting area
- 2 separate areas for test of mooring winch and cable lifter (electric & hydraulic capacity)

## Machining Shop

- 2,000 pie center drilling machine
- 500 pie x 2 m lathe



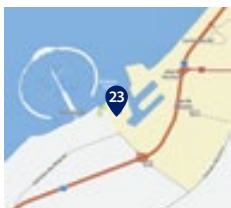


# Dubai

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<b>Country</b>	United Arab Emirates
<b>Telephone</b>	+ 971 4 883 3881
<b>Email</b>	service.dubai@rolls-royce.com
<b>Address</b>	P.O. Box no - 261103, Oil Field Supply Centre, Shed no - 47 Jebel Ali free Zone. Dubai, U.A.E.
<b>24-Hr Emergency No.</b>	+ 971 5 0645 9170
<b>Workshop Size</b>	1250 sq m

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## Service Capabilities

### Repair and overhaul of:

- Diesel engines
- Cylinder heads
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Control systems, analog & digital
- Propellers (CPP and FPP)

## Workshop Facts

- Total workshop area: 1152 sq m
- 2 x 5 t overhead crane

## Product Capacity

- Tunnel thrusters: All Ulstein, Liaaen and Kamewa types
- Azimuth thrusters: All Ulstein and Kamewa types and Rauma types up to US 285
- CPPs: All types
- Waterjets: All types





# Dunfermline - Stabilisers

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<b>Country</b>	United Kingdom
<b>Telephone</b>	+ 44 1383 82 31 88
<b>Email</b>	aftermarket.dunfermline@rolls-royce.com
<b>Address</b>	Taxiway, Hillend Industrial Park, Dunfermline, Fife, KY11 9JT, UK
<b>24-Hr Emergency No.</b>	+44 7831 1671 38
<b>Workshop Size</b>	4000 sq m

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## Service Capabilities

- Fully equipped machine shop
- Part of the world wide cylinder head exchange pool programme

### Repair and overhaul of:

- Diesel engines
- Gearbox
- Cylinder heads
- Fuel injection
- 4 stroke engines
- Electrical systems
- Automation & control systems
- Main switchboards
- Propulsion systems
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Azipulls
- Swing-ups
- Control systems, analog & digital
- Propellers (CPP and FPP)
- Blade polish and repair
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic winch motor
- Winch brake cylinders
- Stabilisers
- Steering gear
- Mill spec RAS FAS
- Drill string compensators
- Riser & guideline tensioners

## Workshop Facts

- Total workshop area: 4000 sq m
- 50 t + 20 t Overhead carriage mounted crane
- 25 t + 25 t Overhead carriage mounted crane
- 2 x 16 t Overhead carriage mounted cranes
- Ancillary equipment
- Hydraulic and hydrostatic testing plant
- Coppersmith facility
- Stand-alone diesel engine overhaul facility

## Machining Shops

- CNC Horizontal Floor Borer, 25 t rotary table
- FX Horizontal Floor Borer, 10 t rotary table
- Horizontal machining centre
- 9 m CNC lathe, 16 t max loading
- 4 m centre lathe, 11 t max loading
- Turret lathe



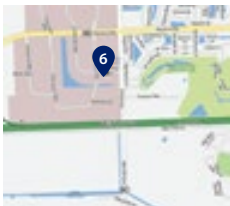


# Fort Lauderdale, FL

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<b>Country</b>	USA
<b>Telephone</b>	+ 1 954 436 7100
<b>Email</b>	service.florida@rolls-royce.com
<b>Address</b>	10125 USA Today Way, Miramar, FL 33025, USA
<b>24-Hr Emergency No.</b>	+ 1 954 436 7100
<b>Workshop Size</b>	3250 sq m

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## Service Capabilities

- Fully equipped machine shop
- Part of the world wide cylinder head exchange pool programme

### Repair and overhaul of:

- Diesel engines
- Cylinder heads
- Fuel injection
- Electrical systems
- Propulsion systems
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Control systems, analog & digital
- Propellers (CPP and FPP)
- Blade polish and repair
- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Winch brake cylinders
- Stabilisers
- Steering gear
- Non OEM thrusters
- Non OEM diesels
- Faro Laser scanning

## Workshop Facts

- Total workshop area: 3250 sq m
- Total lifting capacity: 45 t / 10 t / 2 t
- Lifting height: 6 m
- Welding and propeller area
- Parts washing including high pressure and ultra sonic cleaning
- Faro Laser scan arm
- Hydraulic Test facility

## Machining Shop

- Sirco 8 ft Lathe
- Stanko 25 ft Lathe
- Vanguard TPX6113/2 Boring Mill
- Bullard 46" Cut Master V.T.L.
- Chris Marine Valve Grinding Machines
- MetalMaq Milling Machine
- Cylinder Liner Bore Machine



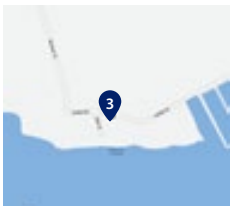


# Galveston, TX

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<b>Country</b>	USA
<b>Telephone</b>	+ 1 409 765 4800
<b>Email</b>	service.galveston@rolls-royce.com
<b>Address</b>	Pelican Island 1, 2929 Todd Road, Galveston, TX 77554, USA
<b>24-Hr Emergency No.</b>	+1 832 298 7804
<b>Workshop Size</b>	3065 sq m

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## Service Capabilities

- Fully equipped machine shop
- Part of the world wide cylinder head exchange pool programme

### Repair and overhaul of:

- Diesel engines
- Gas engines
- Gearbox
- Cylinder heads
- 2 stroke engines
- 4 stroke engines
- Propulsion systems
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Azipulls
- Swing-ups
- Control systems, analog & digital
- Propellers (CPP and FPP)
- Blade polish and repair
- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic winch motor
- Steering gear
- Non OEM thrusters
- Non OEM diesels

## Workshop Facts

- Total workshop area: 3065 sq m
- 1 x overhead cranes with double hooks of 85 mt each, free height of 10 m, total crane beam capacity 85 mt
- 1 x overhaul crane with double hooks of 35 t and 20 t, free height of 10 m, total crane beam capacity 35 mt
- 2 x semi gantry cranes with 15 mt capacity, 7 m free lift height
- 5 x jib side wall mounted cranes of 1.5 mt, free lift height of 5 m
- Fully equipped Bergen cylinder head overhaul shop with Schenck turbocharger balancing machine
- Long term storage options for customer equipment

## Machining Shop

- 100 mm horizontal boring mill with a table of 1400 mm x 1700 mm for 5 t
- Radial drilling machine with 1875 mm radius and maximum drilling diameter of 100 mm
- Milling machine with a table of 1370 mm x 320 mm for 400 kg
- Surface grinder with 250 mm x 500 mm table
- 400 mm x 1000 mm horizontal lathe
- 660 mm x 3050 mm horizontal lathe
- 1350 mm x 7000 mm horizontal lathe
- 762 mm rotary surface grinder

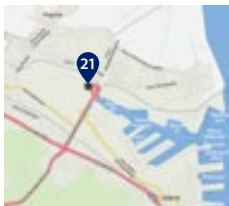




# Gdynia

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<b>Country</b>	Poland
<b>Telephone</b>	+ 48 58 782 06 55
<b>Email</b>	service.poland@rolls-royce.com
<b>Address</b>	8 Kontenerowa Str, 81-155 Gdynia, Poland
<b>24-Hr Emergency No.</b>	+ 48 58 782 06 55
<b>Workshop Size</b>	1200 sq m





## Service Capabilities

- Fully equipped machine shop

### Repair and overhaul of:

- Diesel engines
- Gas engines
- Gearbox
- Cylinder heads
- 2 stroke engines
- 4 stroke engines
- Electrical systems
- Propulsion systems
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Azipulls

- Swing-ups
- Control systems, analog & digital
- Propellers (CPP and FPP)
- Blade polish and repair
- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic control valves
- Hydraulic winch motor
- Winch brake cylinders
- Steering gear
- Non OEM thrusters
- Non OEM diesels

## Workshop Facts

- Total workshop area: 900 sq m workshop, 50 sq m electrical workshop, 250 sq m warehouse.
- 30 t bridge crane, with 15 t auxiliary winch
- 3.2 t pillar crane
- 2 t portal crane system

- High pressure steam cleaning area 40 sq m with closed loop water treatment
- Closed automatic component washing machines
- Blasting cabinet
- Hydraulic test stand

## Machining Shop

- Flat grinding machine – max workpiece 500 kg
- Heavy duty lathe
- Very heavy duty drilling and milling unit, max workpiece to 10 t
- High capacity radial drill press
- 1 m lathe

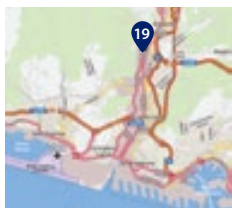




# Genoa

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<b>Country</b>	Italy
<b>Telephone</b>	+ 39 010 749 391
<b>Email</b>	genoa.marine@rolls-royce.com
<b>Address</b>	Via Castel Morrone, 13, 16161 Genoa, Italy
<b>24-Hr Emergency No.</b>	+ 39 348 4765929
<b>Workshop Size</b>	972 sq m





## Service Capabilities

### Repair and overhaul of:

- Gas engines
- Cylinder heads
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Propellers (CPP and FPP)
- Repair and polishing for small/medium propeller blades.
- Steering gear

## Workshop Facts

- Total workshop area: 444 sq m
- Propeller repair area
- 2 x 12.5 t rail crane for handling marine & engine equipment, Ton Demag flag crane, 200 kg Bottazzi flag crane.
- 1 t Ultrasonic tank
- Laydown yard for long term storage of large thruster units
- Roughness check device
- 1 t washing machine

## Machining Shop

- Delapena honing machine for KV and B gas engine liners
- Chris marine valve grinding machines for KV and B cylinder heads seat and valves





# Guangzhou

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<b>Country</b>	China
<b>Telephone</b>	+ 86 20 8491 1696
<b>Email</b>	service.shanghai@rolls-royce.com
<b>Address</b>	Rolls-Royce Marine Manufacturing (Shanghai) Ltd-Guangzhou Branch No.107-4, Shiyu Road,Tianyi Village, Dongchong Town, Nansha District, Guangzhou 511475, China
<b>24-Hr Emergency No.</b>	+ 86 135 0173 0172
<b>Workshop Size</b>	735 sq m

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## Service Capabilities

### Repair and overhaul of:

- Diesel engines
- Bergen B and K variant cylinder heads and liners
- Tunnel thrusters up to TT2000 size
- Non OEM thrusters

Field Service on full range of Rolls-Royce Marine products

## Workshop Facts

- Total workshop area: 735 sq m
- Lifting Capacity: 5 t
- Lifting Height: 6 m

## Machining Shop

- Surface grinding machine: High accuracy type and designed for repair/machine sealing surface of cylinder cover, cylinder liner and fuel injection valve
- Lathe – spindle bore 52 mm, centre width 1500 mm, turning diameter: over bed 500 mm





## Hagavik - Steering gear

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<b>Country</b>	Norway
<b>Telephone</b>	+ 47 815 20 070
<b>Email</b>	hagavik@rolls-royce.com
<b>Address</b>	Ulvenveien 345, N-5220 Hagavik, Norway
<b>24-Hr Emergency No.</b>	+ 47 918 47 067
<b>Workshop Size</b>	550 sq m





## Service Capabilities

### Repair and overhaul of:

- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic control valves
- Hydraulic winch motors
- Winch brake cylinders
- Steering gear

## Workshop Facts

- Total workshop area: 550 sq m
- All areas equipped with 16 t overhead cranes, 5 m hook height
- Outdoor area with overhead crane
- Steam washer for cleaning of various parts
- Hot-work area
- Test area for hydraulic units both for load-and pressure testing



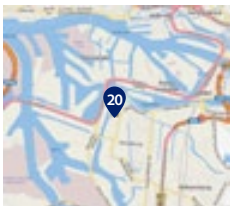


# Hamburg

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<b>Country</b>	Germany
<b>Telephone</b>	+ 49 40 780 9190
<b>Email</b>	service.hamburg@rolls-royce.com
<b>Address</b>	Fährstieg 9, D-21107 Hamburg, Germany
<b>24-Hr Emergency No.</b>	+ 49 40 7809 1918
<b>Workshop Size</b>	1100 sq m

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## Service Capabilities

- Fully equipped machine shop

### Repair and overhaul of:

- Gearbox
- Tunnel thrusters
- Azimuthing thrusters
- Azipulls
- UUC
- Swing-ups
- Control systems, analog & digital
- Propellers (CPP and FPP)
- Blade polish and repair
- Waterjets
- Deck machinery

- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic control valves
- Hydraulic winch motor
- Winch brake cylinders
- Deck cranes
- Electrical systems
- Fukushima cranes
- Fukushima winches
- Steering gear
- Non OEM thrusters

## Workshop Facts

- Total workshop area: 1100 sq m
- 32 t bridge crane, with 16t auxiliary winch
- 3 t pillar crane
- 1 t pillar crane
- 2 t portal crane system
- High pressure steam cleaning area 40 sq m with closed loop water treatment
- Closed automatic component washing machines
- Blasting cabinet
- Fully equipped & enclosed welding and grinding booth
- Hydraulic test stand

## Machining Shop

- Flat grinding machine – max workpiece 500 kg
- Heavy duty lathe
- Very heavy duty drilling and milling unit, max workpiece to 10 t
- High capacity radial drill press
- 1 m lathe





# Hjørungavåg - Seismic and subsea

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<b>Country</b>	Norway
<b>Telephone</b>	+ 47 70 01 33 00
<b>Email</b>	osc@rolls-royce.com
<b>Address</b>	P.O. Box 193, 6069 Hareid, Norway
<b>24-Hr Emergency No.</b>	+ 47 916 22 336
<b>Workshop Size</b>	400 sq m





## Service Capabilities

### Repair and overhaul of:

- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic winch motor
- Winch brake cylinders
- Wire spooling
- Deck cranes

## Workshop Facts

- Total workshop area: 400 sq m
- Hydraulic Pressure Units
- Seismic Equipment
- LARS Overside & Moonpool systems
- A-Frame
- CTCU
- WOCS-Reel
- Pipes

## Machining Shop

- TOS WHN 100 (horizontal boring machine)
- Dahlih MCV 1500 Vertical CNC Machining Center
- Manual lathe (4 machines)
- Manual milling machine
- MAS VD50 (vertical drilling machine)





# Hong Kong

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<b>Country</b>	China
<b>Telephone</b>	+ 852 2526 6937
<b>Email</b>	service.hongkong@rolls-royce.com
<b>Address</b>	1-7 Sai Tso Wan Road, Tsing Yi Island, N.T., Hong Kong
<b>24-Hr Emergency No.</b>	+ 86 135 0173 0172
<b>Workshop Size</b>	525 sq m

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## Service Capabilities

### Repair and overhaul of:

- Tunnel thrusters
- Waterjets
- Non OEM thrusters

## Workshop Facts

- Total workshop area: 525 sq m
- 10 t bridge crane
- 5 t travelling crane
- High pressure cleaning area
- Fully equipped welding and grinding booth
- 100 t press
- Forklift for internal transport

## Machining Shop

- Drilling machine
- Lathe
- Band Saw

## Product Capacity

- Tunnel Thrusters – Ulstein, Liaaen, Kamewa
- Waterjets – Kamewa, FF-jet
- Hydraulic Valves, Motors and Pumps – Brattvaag, Norwinch, Rauma
- Automation and Control Systems – UMAS, Peilo Teknikk

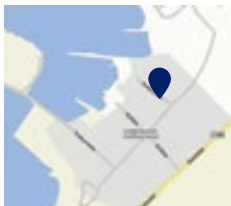




# Kokkola - Waterjets

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<b>Country</b>	Finland
<b>Telephone</b>	+ 358 6 832 4500
<b>Email</b>	service.kokkola@rolls-royce.com
<b>Address</b>	P.O. Box 579, FI-67701 Kokkola, Finland
<b>24-Hr Emergency</b>	+ 31 20 700 6474
<b>No.Workshop Size</b>	1000 sq m





## Service Capabilities

Repair and overhaul of:

- Waterjets

## Workshop Facts

- Warehouse floor capacity: 1500 sq m
- Training centre: 300 sq m
- Machining shop
- Dry dock lifting capacity: 120 t
- Balancing machine for impellers and propellers
- Capacity: 15 boats, storage outside

## Machining Shop

- FPT milling machine
- Hermle 5-axis milling machine
- Heckert milling machine
- SMT lathe
- Leadwell lathe
- ACME carousel lathe

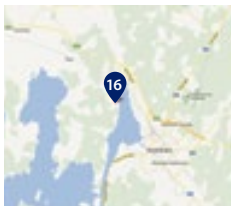




# Kristinehamn - Propellers

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<b>Country</b>	Sweden
<b>Telephone</b>	+ 46 550 840 00
<b>Email</b>	techsup.sweden@rolls-royce.com
<b>Address</b>	P.O. Box 1010, S-68129 Kristinehamn, Båtbyggarevägen 1, Sweden
<b>24-Hr Emergency No.</b>	+ 46 550 84100
<b>Workshop Size</b>	2350 sq m





## Service Capabilities

### Repair and overhaul of:

- Propeller blade and impeller repair
  - Measuring, straightening, welding and grinding

## Workshop Facts

- Total workshop area: 2350 sq m
- Total lifting capacity of 50 t
- Lifting height of 7 m
- Separate hall for cleaning of units and parts
- Large washing machine for washing components and parts
- Pitchometer and balancing machine for propeller blade and impeller repair
- FARO laser measuring equipment
- Co-located with fully equipped machine shop used for new production



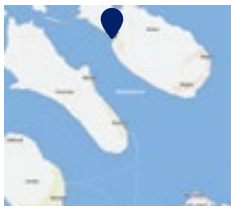


# Longva - Automation and control

---

<b>Country</b>	Norway
<b>Telephone</b>	+ 47 70 20 82 14
<b>Email</b>	workshop.automation@rolls-royce.com
<b>Address</b>	Automation Longva, N-6293 Longva, Norway
<b>24-Hr Emergency No.</b>	+ 47 977 28 360
<b>Workshop Size</b>	102 sq m

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## Service Capabilities

### Repair and overhaul of:

- Automation & control systems
- Upgrade datasound, old UMAS, UMAS V, ACON and other Automation and Control Systems

## Workshop Facts

- Total workshop area: 102 sq m
- Overhaul of computers, printers, Network modules, I/O modules, alarm controllers, tank sounding, pump & valve
- Configuration of replacement of computers
- Install software in programmable cards
- Calibrate transmitters, converters, block valves, manometer and indicators
- Overhaul/ repair soundfast, datasound, and other tank gauging systems

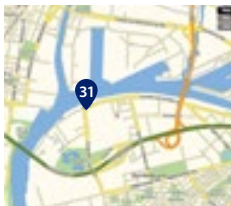




# Melbourne

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<b>Country</b>	Australia
<b>Telephone</b>	+ 61 396 444 700
<b>Address</b>	Unit 4, 344 Lorimer Street, Port Melbourne, VIC 3207, Australia
<b>24-Hr Emergency No.</b>	+ 61 396 444 700
<b>Workshop Size</b>	720 sq m







## Service Capabilities

- Part of the world wide cylinder head exchange pool programme

### Repair and overhaul of:

- Diesel engines
- Gas engines
- Cylinder heads
- Fuel injection
- Fuel pump testing & calibration

## Workshop Facts

- Total workshop area: 720 sq m
- 5 t gantry crane
- Ultrasonic cleaning of charge air coolers and engine parts
- DP simulator
- Automation and control support
- Non OEM overhauls of the above

## Machining Shop

- 1.5 m bed lathe
- Vertical milling machine
- Valve grinder
- Bench drill
- 60 t hyd press
- Chris marine honing machine
- Fuel pump grinder
- Chris marine valve cutting machine
- Chris marine surface grinder



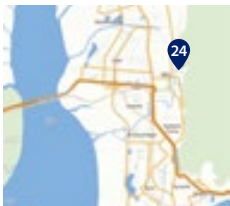


# Mumbai

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<b>Country</b>	India
<b>Telephone</b>	+ 91 22 6726 38 38
<b>Email</b>	marine.india@rolls-royce.com
<b>Address</b>	D/505 TTC Industrial Area, MIDC, Turbhe, Navi Mumbai, 400703, India
<b>24-Hr Emergency No.</b>	+ 91 773 877 5775
<b>Workshop Size</b>	2323 sq m

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## Service Capabilities

### Repair and overhaul of:

- Diesel engines
- Cylinder heads
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Propellers (CPP and FPP)
- Mooring winches
- Hydraulic winch motors
- Steering gear
- Stabilisers

## Workshop Facts

- Total workshop area: 2323 sq m
- 40/7 t overhead crane
- 20 t overhead crane
- 5 x 3 t swing cranes
- 2 x diesel generators
- Ultrasonic cleaning tank
- Air compressor with receiver

## Machining Shop

- Lathe
- 2 x drilling machines
- 50 t hydraulic press
- Chris marine valve and seat grinding machines
- Cylinder liner honning machine
- CMM machine - FARO Arm for propeller blade repairs
- Pedestal grinding machine
- 2 x welding rectifiers



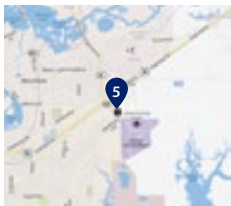


# Pascagoula, MS

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<b>Country</b>	USA
<b>Telephone</b>	+ 1 228 762 0728
<b>Email</b>	marineinfo@rolls-royce.com
<b>Address</b>	3719 Industrial Road, PO Box 1528, Pascagoula, MS 39567, USA
<b>24-Hr Emergency No.</b>	+ 1 228 381 0399
<b>Workshop Size</b>	7200 sq m

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## Service Capabilities

### Repair and overhaul of:

- Propellers (CPP and FPP)
- Blade polish and repair
- Waterjets

## Workshop Facts

- Total workshop area: 4611 sq m
- Bridge cranes of 20 t, 45 t and 78 t capacities
- USN gauging / certified plug gauges
- Spectrographic chemical analysis
- Mechanical destructive testing
- Faro LaserTracker technology
- Dimensional inspection via six pitchometers
- Solidification modeling

## Machining Shop

- Vertical turning tenter: 2500 mm
- 10 m high speed NC gantry mill for machining large fixed pitch propellers
- Welders certified in C95800, CF3, CD3NM
- Capable of machining a 900 cm diameter fixed pitch propeller
- Capable of machining a CP hub up to 270 cm in diameter

## Foundry Facts

- Single pour capacity of 90 t (NiAlBrz)
- Single pour capacity of 14 t (SS)
- Continuous sand mixers with capacities of 300, 600 and 1,000 lbs per minute
- Foundry sand laboratory

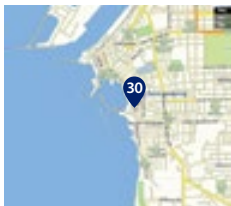




# Perth

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<b>Country</b>	Australia
<b>Telephone</b>	+ 61 8 9336 7910
<b>Address</b>	Unit 2, 8 Wallace Way, Fremantle WA 6160, Perth, Australia
<b>24-Hr Emergency No.</b>	+ 61 8 9336 7910
<b>Workshop Size</b>	600 sq m





## Service Capabilities

Repair and overhaul of:

- Tunnel thrusters
- Propellers (CPP and FPP)
- Stabilisers

## Workshop Facts

- Total area of 600 sq m
- Total lifting capacity of 10 t (traveling overhead crane)
- Lifting height of 5 m
- Welding and propeller repair area
- Parts washing and high pressure excluding ultra sonic cleaning
- Training facilities

## Machining Shop

- Milling machine
- Drilling equipment
- 2 center lathes

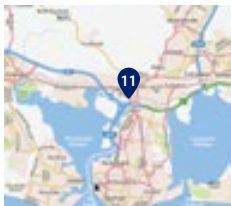




# Portsmouth

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<b>Country</b>	United Kingdom
<b>Telephone</b>	+ 44 2392 310 000
<b>Email</b>	marineinfo@rolls-royce.com
<b>Address</b>	Northarbour Road, Cosham, Portsmouth, PO6 3TL, UK
<b>Workshop Size</b>	1600 sq m







## Service Capabilities

### Repair and overhaul of:

- Electrical systems
- Automation & control systems
- Main switchboards
- Control systems, analog & digital

## Workshop Facts

- Total workshop area: 1600 sq m
- 440 V switchboard & Distribution Systems specialists
- Electrical assembly workshop
- Ability to inspect & test 440 V switchboards

## Machining Shop

- Basic tooling to support manufacture of copper bus-bars:
  - Prosaw
  - Strippit punching machine
  - Euromac copper bender
  - Bandsaw
  - Pillar Drills



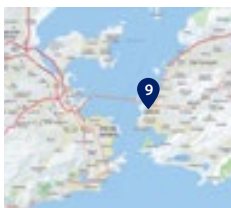


# Rio de Janeiro

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<b>Country</b>	Brazil
<b>Telephone</b>	+ 55 21 2707 5900
<b>Email</b>	brazil.support@rolls-royce.com
<b>Address</b>	Ilha do Caju, 131, CEP 24. 040-005, Ponta da Areia, Niterói, Brazil
<b>24-Hr Emergency No.</b>	+ 55 21 7101 1222
<b>Workshop Size</b>	2100 sq m

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## Service Capabilities

- Fully equipped machine shop

### Repair and overhaul of:

- Diesel engines
- Gearbox
- Cylinder heads
- Fuel injection
- 4 stroke engines
- Electrical systems
- Automation & control systems
- Propulsion systems
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Swing-ups
- Control systems, analog & digital

- Propellers (CPP and FPP)
- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Oil & water pumps
- Hydraulic control valves
- Hydraulic winch motor
- Winch brake cylinders
- Deck cranes
- Steering gear
- Wire spooling
- Frequency converters
- Main switchboards

## Workshop Facts

- Total workshop area: 2100 sq m
- 100 t gantry with 50 t auxiliary winch
- 2 x 25 t roller cranes, with 10 t auxiliary winch
- 10 t semi-gantry
- 3 x 1.5 t jib cranes
- 6 x 1.0 t jib cranes
- Induction furnace
- Hydraulic unit S-1100

## Machining Shop

- Milling / boring machine for 3 t
- Milling machine cone 50 (ISO) for 400 kg
- Grinding machine
- 5 m horizontal lathe
- 3 m horizontal lathe
- 2 m horizontal lathe
- Plane polish machine
- Cylinder liner burnish
- Valve polish machine
- Valve pocket machine
- Radial drilling machine





# Rotterdam

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<b>Country</b>	Netherlands
<b>Telephone</b>	+ 31 10 40 92 100
<b>Email</b>	Benelux.service@rolls-royce.com
<b>Address</b>	Werfdijk 2 (Port 2828), 3195 HV Pernis, The Netherlands
<b>24-Hr Emergency No.</b>	+31 6 51 53 15 28
<b>Workshop Size</b>	1500 sq m

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## Service Capabilities

- Part of the world wide cylinder head exchange pool programme

### Repair and overhaul of:

- Diesel engines
- Gas engines
- Gearbox
- Cylinder heads
- 2 stroke engines
- 4 stroke engines
- Electrical systems
- Propulsion systems
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Azipulls
- Swing-ups
- Propellers (CPP and FPP)
- Blade polish
- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic winch motor
- Winch brake cylinders
- Wire spooling
- Deck cranes
- Stabilisers
- Steering gear
- Non OEM thrusters
- Non OEM diesels

## Workshop 1 Facts

- 2 x 12.5 t bridge crane, total lifting capacity 25 t
- 1 t wall mounted jib crane
- 0.5 t pillar jib crane
- Ultrasonic cleaning tank
- High pressure steam cleaning area
- Fully enclosed spray painting cell
- Automated component washing machine
- Hydraulic test stand (HP/LP)
- Shot blasting system (glass bead pressure blasting)

## Workshop 2 Facts

- 2 x 8 t bridge cranes and 1 x 16 t bridge crane, total lifting capacity 32 t
- 2 x 2 t travelling, wall mounted crane
- 1 t travelling, wall mounted crane
- 100 t press with support

## Machining Capability

- Lathe Ø460 x 2000 mm
- Lathe Ø250 x 1500 mm
- MIG welding machine
- TIG welding machine
- 2 x Chris marine CPL "Service Grinding Machines"
- Chris marine VSL "Valve Seat Lathe"
- Service grinding machine
- Pedestal drill
- Chris marine HON-S Deglazing and Honing Machine for engine cylinder liners
- Chris marine BSP Valve spindle grinding machine

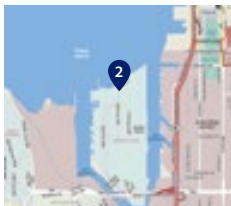


# Seattle,WA

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<b>Country</b>	USA
<b>Telephone</b>	+ 1 206 782 9190
<b>Email</b>	service.seattle@rolls-royce.com
<b>Address</b>	1731 13th Ave. SW, Seattle, WA 98134, USA
<b>24-Hr Emergency No.</b>	+ 1 206 499 8245
<b>Workshop Size</b>	1950 sq m

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## Service Capabilities

- Part of the world wide cylinder head exchange pool programme

### Repair and overhaul of:

- Diesel engines
- Cylinder heads
- Fuel injection
- Fuel pump testing & calibration
- Non OEM diesels
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Propellers (CPP and FPP)
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic winch motor
- Steering gear

## Workshop Facts

- Total workshop area: 1950 sq m
- Total lifting capacity: 30 t
- Lifting height: 20 ft
- Welding and propeller repair area
- Parts washing including high pressure and ultra sonic cleaning
- Controls workshop and training facility
- Electric fork-lift 7,000lb capacity
- 2 agitator solvent tanks
- 2 standard solvent tanks

## Machining Shop

- Chris marine valve grinding machines and cylinder liner honing machines
- In-situ machining equipment
- 200 t hydraulic press
- Lathe Turnmaster 16 x 20
- Bridgeport vertical mill
- Drill press



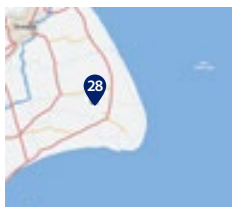


# Shanghai

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<b>Country</b>	China
<b>Telephone</b>	+ 86 21 5818 8899
<b>Email</b>	service.shanghai@rolls-royce.com
<b>Address</b>	No. 1 Xuan Zhong Road Xuan Qiao Town, Pudong New Area, Shanghai 201300, China
<b>24-Hr Emergency No.</b>	+ 86 135 0173 0172
<b>Workshop Size</b>	6,000 sq m

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## Service Capabilities

### Repair and overhaul of:

- Diesel engines
- Cylinder heads
- Non OEM diesels
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Propellers (CPP and FPP)
- Mooring winches
- Hydraulic winch motor
- Steering gear
- Non OEM thrusters

## Workshop Facts

- Total workshop area: 6000 sq m
- Total lifting capacity: 30 t; 4 x 25 t
- Lifting height: 12.5 m

## Machining Shop

- Flat grinding machine – max workpiece 500 kg
- Heavy duty lathe
- Very heavy duty drilling and milling unit, max workpiece 10 t
- High capacity radial drill press
- 2 m lathe

## Product Capacity

- Tunnel thrusters: All Ulstein, Liaaen and Kamewa types
- Azimuth thrusters: All Ulstein, Kamewa and Rauma types
- CPPS: All types
- Waterjets: All types
- Non OEM tunnel thrusters: All Kawasaki and Lips types





# Singapore

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<b>Country</b>	Singapore
<b>Telephone</b>	+ 65 6862 1901
<b>Email</b>	service.singapore@rolls-royce.com
<b>Address</b>	No. 6 Tuas Drive 1, Singapore 638673
<b>24-Hr Emergency No.</b>	+65 6818 5665
<b>Workshop Size</b>	1100 sq m





## Service Capabilities

- Fully equipped machine shop
- Part of the world wide cylinder head exchange pool programme

### Repair and overhaul of:

- Diesel engines
- Gearbox
- Cylinder heads
- Azipulls
- UUC
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Swing-ups
- Propellers (CPP and FPP)
- Blade polish and repair
- Mooring winches
- Towing winches
- Hydraulic winch motor
- Steering gear

## Workshop Facts

- Total workshop area: 1100 sq m
- 2 x 3 t jig cranes
- 3 x 1.5 t semi cranes
- 2 x 30 t transverse cranes
- Lifting height: 9 m
- 2 x 3 t lifting table
- 1 x 10 t overhead crane
- Separate washing area for cleaning of units and parts
- Ultrasonic washing bay
- Blasting machine for engine components
- Machine centre for machining of parts and components

## Machining Shop

- CNC Machine
- Milling & Drilling machine
- 6 ft centre lathe
- Chris marine valve grinding machines and cylinder liner honing machine





# St. John's

---

<b>Country</b>	Canada
<b>Telephone</b>	+ 1 709 748 7650
<b>Email</b>	marine.stjohns@rolls-royce.com
<b>Address</b>	142 Glencoe Drive, Mount Pearl, Newfoundland NL A1N 4P7, Canada
<b>24-Hr Emergency No.</b>	+ 1 709 687 1673
<b>Workshop Size</b>	2325 sq m

---





## Service Capabilities

- Fully equipped machine shop
- Part of the world wide cylinder head exchange pool programme

### Repair and overhaul of:

- Diesel engines
- Gearbox
- Cylinder heads
- 2 stroke engines
- 4 stroke engines
- Automation & control systems
- Propulsion systems
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Swing-ups
- Control systems, analog & digital
- Propellers (CPP and FPP)
- Blade polish and repair
- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic winch motor
- Winch brake cylinders
- Stabilisers
- Steering gear
- Non OEM thrusters
- Non OEM diesels
- Charge air coolers

## Workshop Facts

- Total workshop area: 2325 sq m
- Total lifting capacity: 70 t
- 2 x 35 t cranes
- 20 t crane
- 10 t crane
- 5 t crane
- Lifting height: 11 m
- Welding and propeller repair area
- Fuel shop
- Parts washing including high pressure and ultra sonic cleaning

## Machining Shop

- Valve cutting machine
- 2 x cylinder honing machine
- 3 x drill press (small, medium, and large machines)
- Bandsaw
- Milling machine
- 2 x lathe (small and large)
- Surface grinder
- Horizontal milling machine
- 100 t hydraulic press
- Chris Marine valve grinding machine





# St. Rose, LA

---

<b>Country</b>	USA
<b>Telephone</b>	+ 1 504 464 4561
<b>Email</b>	service.nola@rolls-royce.com
<b>Address</b>	200 James Drive West, St Rose, LA 70087, USA
<b>24-Hr Emergency No.</b>	+ 1 504 464 4561
<b>Workshop Size</b>	550 sq m

---





## Service Capabilities

- Part of the world wide cylinder head exchange pool programme
  - Swing-ups
  - Control systems, analog & digital
  - Propellers (CPP and FPP)
  - Blade polish and repair
  - Anchor winches
  - Mooring winches
  - Towing winches
  - Hydraulic pumps
  - Winch brake cylinders
  - Steering gear
  - Non OEM thrusters
  - Non OEM gearboxes
- Repair and overhaul of:**
- Diesel engines
  - Gas engines
  - Gearbox
  - Cylinder heads
  - Propulsion systems
  - Waterjets
  - Tunnel thrusters
  - Azimuthing thrusters

## Workshop Facts

- Total workshop area: 550 sq m
- 2 x 5 t overhead cranes
- Welding and propeller repair area
- MART Tornado parts power clean system

## Machining Shop

- Surface grinder
- In-situ machining equipment
- Chris marine valve grinding machines
- 2 x 2 t overhead free standing crane
- Dela-Pena Power Hone Cylinder Liner
- 2 x 1 t jib cranes
- Monoblock propeller static balancing machine





# Tarragona

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<b>Country</b>	Spain
<b>Telephone</b>	+ 34 977 296 446
<b>Email</b>	service.tarragona@rolls-royce.com
<b>Address</b>	C/Dinamarca s/n (Pol. Ind. Constanti), 43120 Constanti. Tarragona, Spain
<b>24-Hr Emergency No.</b>	+ 34 977 296 446
<b>Workshop Size</b>	500 sq m

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## Service Capabilities

Repair and overhaul of:

- Diesel engines
- Gas engines
- Cylinder heads

## Workshop Facts

- Total workshop area: 500 sq m
- Total lifting capacity: 5 t
- Lifting height: 6 m
- Cylinder heads washing machine

**Note:** This workshop is owned by Bergen Engines SL and is only used for servicing gas engines.

## Machining Shop

- Chris marine valve grinding machines and cylinder liner honing machines
- In-situ machining equipment



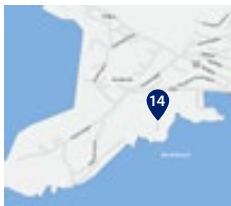


# Ulsteinvik - Propellers and thrusters

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<b>Country</b>	Norway
<b>Telephone</b>	+ 47 815 20 070
<b>Email</b>	service.propulsion.ulstein@rolls-royce.com
<b>Address</b>	P.O. Box 1522, N-6025 Ålesund, Norway
<b>24-Hr Emergency No.</b>	+ 47 900 10 997
<b>Workshop Size</b>	3000 sq m

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## Service Capabilities

- Fully equipped machine shop

### Repair and overhaul of:

- Gearbox
- Propulsion systems
- Tunnel thrusters
- Azimuthing thrusters
- Azipulls
- Swing-ups

- Propellers (CPP and FPP)
- Blade polish and repair
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic winch motor
- Steering gear

## Workshop Facts

- Total workshop area: 3000 sq m
- Assembly area of 2600 sq m
- 9 x 1.5 t Rotary cranes
- 3 x 15 t Semi cranes
- 2 x 40 t Transverse cranes
- Total lifting capacity: 80 t in tandem
- Lifting height: 9.5 m
- Lifting table in workshop: 5 t
- 2 x 75 t Cranes in storage hall
- 65 t Crane on quay
- Spare part cell for machining

- Mounting pit for shaftlines with hubs and blades
- Welding area

### Blade repair and shining

- Separate hall for cleaning of units and parts
- Large washing machine for washing components and parts
- Container with tools for rent
- Customer office in workshop

## Machining Shop

- 4 machines in service workshop
- Access to fully equipped machine shop co-located with Operations unit





# Vancouver

---

<b>Country</b>	Canada
<b>Telephone</b>	+ 1 604 942 1100
<b>Email</b>	service.vancouver@rolls-royce.com
<b>Address</b>	96 North Bend Street, Coquitlam BC, V3K 6H1, Canada
<b>24-Hr Emergency No.</b>	+ 1 604 365 7157
<b>Workshop Size</b>	4449 sq m

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## Service Capabilities

### Repair and overhaul of:

- Diesel engines
- Gas engines
- 2 stroke engines
- 4 stroke engines
- Propulsion systems
- Precision laser Measurements
- Tunnel thrusters
- Azimuthing thrusters
- Azipulls
- Swing-ups
- Control systems, analog & digital
- Propellers (CPP and FPP)
- Blade polish and repair
- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic winch motors
- Winch brake cylinders
- Steering gear
- Frequency converters
- Fully equipped machine shop
- Non OEM thrusters
- Non OEM diesels
- UML Azimuth Thrusters (swing-up, retractable, fixed - all types), LIPS Propulsion, Fincantieri Stabilisers

## Workshop Facts

- Total facility area: 4449 sq m
  - Main Shop (Service, Assembly, Inspection and Testing): 2772 sq m
  - Paint Shop: 56 sq m
  - 12 x 18ft high and 3 x 12ft high Storage Racks (for UML casting patterns, jigs and test components)
  - Machining and Fabrication: 413 sq m
    - MiG and TiG welding
    - Large Positioner
    - 5 t bridge crane
    - 2 x 1t jib cranes
    - Plasma cutting
- Warehouse: 413 sq m
  - 1 t jib crane
  - Large scales, 1 t capacity
  - Nine rows of full height racking
  - Two story five unit automated carousel
  - Full packaging capability
  - 10 t bridge crane
  - 2 X 16 t bridge crane
  - 5 x 1 t jib cranes
  - 2 x Test Pits, 7.5 ft deep pit and 6 ft pit

## Machining Shop

- CNC machines
- Large boring mill
- 3-axis lathe
- 5 axis lathe
- 5 t bridge crane
- Surface Grinder and 2 m Manual Lathe



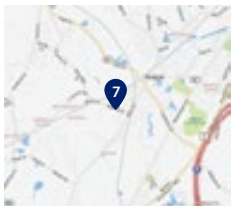


# Walpole, MA

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<b>Country</b>	USA
<b>Telephone</b>	+ 1 508 668 9610
<b>Email</b>	ServicesNA@rolls-royce.com
<b>Address</b>	110 Norfolk Street, Walpole, MA 02081, USA
<b>Workshop Size</b>	1800 sq m

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## Service Capabilities

- Customer training center

### Repair and overhaul of:

- Propulsion systems
- Waterjets

- Tunnel thrusters
- Propellers (CPP and FPP)
- Blade polish & repair

## Workshop Facts

### Machining Center building

- Manufacturing area: 1858 sq m
- Main work area: 1430 sq m
- Adjacent work area: 520 sq m
- 60 t double girder bridge crane, with two 60 t hoists
- 30 t Double girder bridge crane, with 20 t + 10 t hoists
- 5 t bridge crane
- 1 t jib crane

### Assembly and Test building

- Manufacturing area: 2044 sq m
- High bay: 1115 sq m
- Low bay: 929 sq m
- 30 t double girder bridge crane
- 20 t double girder bridge crane, with 20 t + 10 t hoists
- 30 t double girder bridge crane, with 20 t + 10 t hoists
- 5 t bridge crane
- 1 t bridge crane
- 5 t portable gantry
- 1 t jib crane

## Machining Shop

### Machining Center building

- Gantry mill
- Vertical/Horizontal machining center, 34 t
- 2 x Horizontal boring mill, 27 t
- Vertical turret lathe, 4.5 t
- Rotary table horizontal boring mill, 15 t

### EDM system

- Air lift rotary table, 27 t
- 2 x Rotary table, 4.5 t
- Horizontal boring and facing head
- Angular milling attachment
- Gundrilling unit
- 2 x Pneumatic vacuum pumps

### In house fixturing capability

- 6 x MIG welding machines, Lincoln and Miller models
- 5 x TIG welding machines, Miller and Thermal water cooled models
- Stud welder

### Assembly and Test building

- Radial drill
- 2 x Engine lathe
- Surface grinder
- Milling machine
- Vertical bandsaw
- 10 t hydraulic press
- Misc support tools and various hydraulic wrenches, up to 200 t
- 400 Hp electric motor and drive system
- Auxiliary hydraulic power supply system
- Mounting and hold-down pads incorporated into shop floor

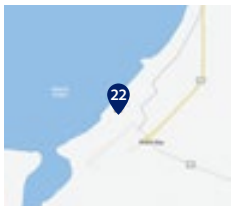


# Walvis Bay

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<b>Country</b>	Namibia
<b>Telephone</b>	+ 264 642 275 440
<b>Email</b>	service.namibia@rolls-royce.com
<b>Address</b>	P.O. Box 4414, Old Power Station, 2nd Street East, Walvis Bay, Namibia
<b>24-Hr Emergency No.</b>	+ 264 811 274 411
<b>Workshop Size</b>	709 sq m

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## Service Capabilities

- Part of the world wide cylinder head exchange pool programme

### Repair and overhaul of:

- Diesel engines
- Gearbox
- Cylinder heads
- Fuel injection
- Fuel pump testing & calibration
- 4 stroke engines
- Electrical systems
- Automation & control systems
- Main switchboards
- Propulsion systems
- Waterjets
- Tunnel thrusters
- Azimuthing thrusters
- Azipulls
- Swing-ups
- Control systems, analog & digital
- Propellers (CPP and FPP)
- Blade polish and repair
- Deck machinery
- Anchor winches
- Mooring winches
- Towing winches
- Hydraulic pumps
- Hydraulic winch motor
- Winch brake cylinders
- Deck cranes
- Stabilisers
- Steering gear
- Non OEM thrusters

## Workshop Facts

The Rolls-Royce Namibia workshop is equipped with:

- Total workshop area: 1800 sq m
- 1 x gantry crane with main winch of 30T and auxiliary winch of 7.5t, free lift height of 9m
- 2 x gantry cranes with main winch of 20T, free lifting height of 5.8m
- 1 portal crane system of 2t, 5.25m span, 10.5m long and hook height 4m
- Automated component washing machine, ultrasonic cleaning tank, sand blasting system and high pressure water washing facility
- Mechanical measuring and calibration equipment
- Automation and controls component refurbishment facility
- Hytorc hydraulic torque equipment
- SKF high pressure injectors and pumps and bearing heaters
- Rolls-Royce Aquamaster, Kamewa, and Ulstein propulsion special tools and lifting and handling equipment
- Bergen engines B, C, and K special tools
- Chris-Marine tooling for overhaul of cylinder heads and liners
- Fuel injector overhaul and test facility.
- Fully equipped welding and grinding booth
- Blade repair equipment including a laser scanner arm for pitch measuring and a blade balancing machine



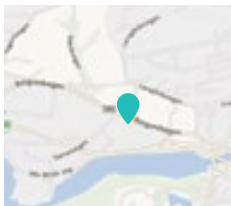


# Aalesund - Training centre

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<b>Country</b>	Norway
<b>Telephone</b>	+47 70 23 51 00
<b>Email</b>	training.marine@rolls-royce.com
<b>Address</b>	Borgundveien 340, NO-6009 Aalesund, Norway

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## Capabilities

- State-of-the-art equipment and training aids to enhance training experience
- Dynamic Positioning Operator “DPO” Basic / Simulator courses certified by the Nautical Institute leading to DPO certification
- Training courses compliant with NWEA, NMD and IMCA mandatory training requirements
- Qualified, experienced instructors deliver courses with a blend of classroom, simulator and workshop time

## Facilities

- Conducive classroom, simulator and workshop setting ideal for multi-product training at one convenient location
- Customised training is available for your specific requirements

## Courses

- Training courses focus on improving understanding and hands-on experience in equipment maintenance and operation

### Thrusters

- Azimuth
- Azipull
- Tunnel thruster
- POD

### Propulsion

- Controllable Pitch Propeller (CPP)
- Waterjet
- Reduction Gear
- Steering Gear

### Engines

- Bergen diesel engine
- Bergen LNG engine (gas)

### Deck Machinery

- Anchor Handling operation
- Rig Winch
- Safer Deck Operations
- Seismic & Subsea
- Crane

### Dynamic Positioning

- ACON & UMAS V systems
- Icon DP / Poscon

### Automation & Control

- Helicon - X3
- Aquapilot
- Canman

### Electrical Power Systems

- Main Switchboard
- AFE drives

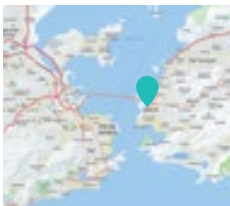




# Rio de Janeiro - Training centre

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<b>Country</b>	Brazil
<b>Telephone</b>	+55 21 2707 59 00
<b>Email</b>	training.brazil@rolls-royce.com
<b>Address</b>	ILHA di Caju 131, 24040 - 005 Ponta da Areia, Niterói - RJ Brazil





## Capabilities

- Conducive classroom, simulator and workshop settings ideal for hands-on training at one convenient location with instructions in Portuguese.
- Training courses compliant with NWEA, NMD and IMCA recommended training requirements.
- Customised training available to be tailored to meet your specific requirements.

## Facilities

- Classroom, simulator and workshop setting ideal for hands-on training at one convenient location.
- State-of-the-art equipment and training aids to enhance training experience

## Courses

- The training courses available will focus on improving understanding and hands-on experience on equipment maintenance and operation.

### Deck Machinery

- Towcon RT / winch technical training for AHTS - vessels
- Towcon RT / winch operation and maintenance training for AHTS vessels
- Crane operation training

### Dynamic Positioning

- Icon DP operator training
- Icon DP / Poscon maintenance training





# Singapore - Training centre

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<b>Country</b>	Singapore
<b>Telephone</b>	+65 6240 3333
<b>Email</b>	training.marine@rolls-royce.com
<b>Address</b>	6 Seletar Aerospace Rise, Singapore 797575

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## Capabilities

- State-of-the-art equipment and training aids to enhance training experience
- DP Trainer and simulator domes for operator training
- Qualified, experienced instructors deliver courses with a blend of classroom, simulator and working time

## Facilities

- Conducive classroom, simulator and workshop setting ideal for multi-product training at one convenient location
- Customised training is available for your specific requirements

## Courses

- Training courses focus on improving understanding and hands-on experience in equipment maintenance and operation

### Propulsion

- Controllable Pitch Propeller (CPP)
- Waterjet
- Tunnel thrusters
- Steering Gear

### Engines

- Bergen diesel and gas engine maintenance training

### Deck Machinery

- Anchor Handling operation

### Dynamic Positioning

- ACON & UMAS V systems
- Icon DP

### Automation & Control

- Helicon - X3
- Canman





# Notes

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# Marine Global Service Network

For more information

Please visit

[www.rolls-royce.com/marine](http://www.rolls-royce.com/marine)

email: [marineinfo@rolls-royce.com](mailto:marineinfo@rolls-royce.com)



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[www.rolls-royce.com/marine/services](http://www.rolls-royce.com/marine/services)



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