



Rolls-Royce

Global gas turbine services capability

Proud to deliver the world's leading aero engine services



Providing services for gas turbines

Extraordinary service....everyday

Delivering excellence across a comprehensive and flexible range of services for Rolls-Royce gas turbine engines is fundamental to everything we do. When you entrust your engine service requirements to us, you can be confident you will receive the most consistently reliable and highest quality services in the world.

As the Original Equipment Manufacturer (OEM) our knowledge and expertise remains unparalleled. For over four decades we have been building our legacy in repair and overhaul and developing and introducing new service capabilities across the globe, in order to ensure our diverse portfolio of customers all enjoy the benefit of renewed engine life and enhanced performance for years to come.

Over the course of one year we:

- overhaul 5,000 engines and modules;
- repair 550,000 components;
- support 3,500 operational events through On-Wing Care;
- monitor the condition of 8,900 assets; and
- manage 400 spare engine assets.



Support you can trust

Our global Service support capability

Unmatched support infrastructure for Rolls-Royce gas turbine engines



Repair and Overhaul service centres

UK: Aberdeen, Ansty, Derby, East Kilbride.
Germany: Erfurt, Oberursel.
USA: Dallas, Houston, Oakland. **Canada:** Montreal.
Brazil: São Paulo. **South East Asia:** Singapore, Malaysia.
China: Hong Kong.



Integrated Data Management service centres

UK: Bristol, Derby, Gateshead, Oxford.
USA: Houston, Indianapolis, Reston, San Diego.
Middle East: Qatar.
South East Asia: Singapore.



Component Repair service centres

UK: Aberdeen, Ansty, Derby, East Kilbride.
Germany: Erfurt, Oberursel.
USA: Dallas, Houston, Oakland.
Canada: Montreal. **Spain:** Madrid.
Mexico: Santiago de Querétaro. **Brazil:** São Paulo.
South East Asia: Singapore, Malaysia. **China:** Hong Kong.



Asset Management, Rotables service centres

UK: Bristol, Derby.
Germany: Oberursel.
USA: Indianapolis.



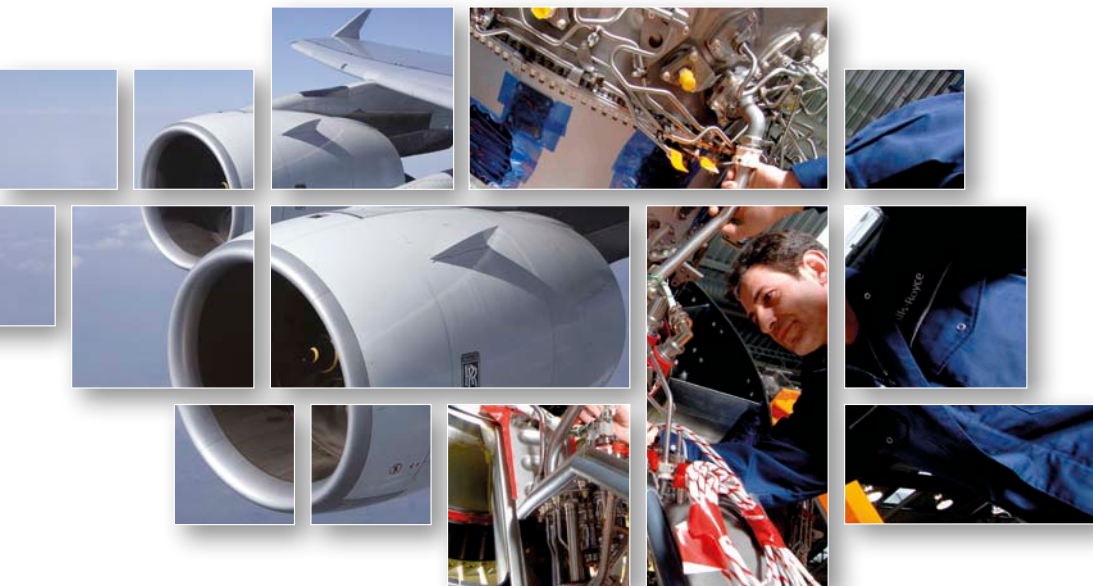
Field Services, On-Wing Care service centres

UK: Derby, London. **Germany:** Frankfurt.
USA: Indianapolis.
Brazil: São Paulo. **Middle East:** Abu Dhabi.
South East Asia: Singapore. **China:** Hong Kong.

Repair and Overhaul service centres

The world's leading specialist in Rolls-Royce gas turbine engines

- Unique technical expertise as the Original Equipment Manufacturer
- 50 types of gas turbine engines supported
- 14 repair and overhaul service centres
- 25 component repair Centres of Excellence



Derby, UK service centre

This wholly-owned, purpose-built, state-of-the-art repair and overhaul facility based in Derby, UK, is the world-leading specialist in the repair and overhaul of RB211 and Trent engine families. Our heritage in repair and overhaul excellence dates back to the early 1970s and today we remain committed to delivering an unparalleled service to our customers, focusing on their needs by supplying a well-balanced blend of quality, cost and delivery.

Capability to fully overhaul:

- RB211-535E4
- RB211-524B4
- RB211-524C2
- RB211-524D4
- Trent 500
- Trent 700
- Trent 800
- Trent 1000

Support services:

- flexible induction capacity to meet your aircraft maintenance schedule;
- direct access to lease engines;
- direct access to both new and used Rolls-Royce certificated spare parts;
- hospital capability for light repairs;
- highly experienced mobile repair team for selected field services;
- direct access to On-Wing Care global support network;
- dedicated Customer Business team;
- world-class component repair services;
- engine test capability; and
- tailored services to satisfy customer requirements.

For more information on our repair and overhaul services, please do not hesitate to contact the address and number below.

Rolls-Royce plc
Aero Repair & Overhaul Derby
PO Box 31, Derby DE24 8BJ
Tel: +44 (0)1332 243420
Fax: +44 (0)1332 243441
www.rolls-royce.com/services



East Kilbride, UK service centre

Since 1953, our wholly-owned facility in Scotland has been delivering excellence in repair and overhaul services to corporate, commercial and military customers across the globe. We currently support over 120 customers providing them with a first-rate service, ensuring they return again and again.

Capability to fully overhaul:

- V2500
- AE 2100
- Tay
- Adour
- BR710

Support services:

- customised service based on customer requirements;
- V2500 on-wing support;
- flexible induction capacity to meet your aircraft maintenance schedule;
- dedicated Customer Business team;
- world-class component repair services;
- hospital capability for light repairs;
- direct access to both new and used Rolls-Royce certificated spare parts;
- engine test capability; and
- tailored services to satisfy customer requirements.

For more information on our repair and overhaul services, please do not hesitate to contact the address and number below.

Rolls-Royce plc
Mavor Avenue, Nerston Industrial Estate
Nerston, East Kilbride
Glasgow G74 4PY

Tel: +44 (0)1355 220200

Fax: +44 (0)1355 277608

www.rolls-royce.com/services



Ansty, UK service centre

This wholly-owned facility is dedicated to delivering a first-class comprehensive repair and overhaul service to international military and commercial customers. We pride ourselves in our unrivaled specialist knowledge across our diverse portfolio of engines supported, and ensure that all of our customers across different markets are offered tailored services to meet their needs.

Capability to fully overhaul:

- EJ200
- RB199
- Gem
- RTM322
- Viper
- Olympus (Marine)
- Spey (Marine)
- Tyne (Marine)

Support services:

- flexible induction capacity to meet your aircraft maintenance schedule;
- dedicated Customer Business team;
- world-class component repair services;
- hospital capability for light repairs;
- direct access to both new and used Rolls-Royce certificated spare parts;
- Engine Change Unit (ECU) dispatch capability;
- engine test cell capability for Industrial RB211 and Industrial Avon; and
- tailored services to satisfy customer requirements.

For more information on our repair and overhaul services, please do not hesitate to contact the address and number below.

Rolls-Royce plc

Ansty

Coventry CV7 9JR

Tel: +44 (0)24 7662 4181

Fax: +44 (0)24 7662 3346

www.rolls-royce.com/services



Montreal, Canada service centre

With over 60 years experience in repair and overhaul services, our wholly-owned Canadian facility provides gas turbine customer solutions to the corporate, commercial, defence and energy sectors, serving more than 600 operators in 30 countries worldwide providing customers with the gas turbine service solutions they require based on the company's values of reliability, integrity and innovation.

Capability to fully overhaul:

- Spey
- Tay
- AE 3007
- BR710
- BR715
- V2500
- Industrial RB211
- Industrial Trent

Support services:

- flexible induction capacity to meet your aircraft maintenance schedule;
- direct access to lease engines;
- direct access to both new and used Rolls-Royce certificated spare parts;
- 24 hour Aircraft On Ground (AOG) services;
- hospital capability for light repairs;
- highly experienced mobile repair team for field services;
- direct access to On-Wing Care global support network;
- dedicated Customer Business team; and
- world-class component repair services.

For more information on our repair and overhaul services, please do not hesitate to contact the address and number below.

Rolls-Royce Canada Limited
9500 Cote de Liesse Road, Lachine
Montreal, Quebec H8T 1A2

Tel: (+1) 514 636 0964

Fax: (+1) 514 636 9969

www.rolls-royce.com/services



Oberursel, Germany service centre

Servicing over 120 Gnome engines per annum and with more than 35 years experience alone in the repair and overhaul of the Honeywell Lycoming T53 turboshaft engines, our wholly-owned Germany facility has a history of delivering excellence in gas turbine services to military and commercial customers across the world. It is our combination of unparalleled specialist knowledge and technical expertise in the engines supported, and our tailored service offerings that ensure our customers return again and again.

Capability to fully overhaul:

- Gnome H1400-1/-1T
- Honeywell Lycoming T53
- RTM322
- Tornado APU and Gearboxes (SPS Secondary Power System)
- T117 turbojet
- BR710/715 (front drums)

Support services:

- in-service technical support;
- logistical support;
- dedicated technical publications team;
- flexible induction capacity to meet your aircraft maintenance schedule;
- dedicated Customer Business team;
- world-class component repair services;
- hospital capability for light repairs;
- direct access to both new and used Rolls-Royce certificated spare parts; and
- tailored services to satisfy customer requirements.

For more information on our repair and overhaul services, please do not hesitate to contact the address and number below.

Rolls-Royce Deutschland Ltd & Co KG

Hohemarkstraße 60 – 70
61440 Oberursel, Germany

Tel: (+49) 6171 90 6866

Fax: (+49) 6171 90 7343

www.rolls-royce.com/services



Oakland, USA service centre

Our wholly-owned Californian facility has been the first choice for T56 and Model 250 customers' gas turbine engine service requirements for over 50 years. Our specialist knowledge and technical expertise in the repair and overhaul of military turboprop and turboshaft engines is unmatched, resulting in satisfied customers who return to Oakland time and again for a world-class service.

Capability to fully overhaul:

- T56 / 501D (All variants)
- Model 250
- A427
- AE 1107
- F405

Support services:

- flexible induction capacity to meet your aircraft maintenance schedule;
- dedicated Customer Business team;
- world-class component repair services;
- hospital capability for light repairs;
- direct access to both new and used Rolls-Royce certificated spare parts;
- Quick Engine Change capability; and
- tailored services to satisfy customer requirements.

For more information on our repair and overhaul services, please do not hesitate to contact the address and number below.

Rolls-Royce Engine Services
7200 Earhart Road
Oakland, CA 94621
Tel: (+1) 510 613 1000
Fax: (+1) 510 635 3221
www.rolls-royce.com/services



São Paulo, Brazil service centre

For 50 years, our wholly-owned Brazilian facility has been building its heritage in gas turbine services, consistently delivering a world-class repair and overhaul service to international civil, defence and industrial customers. Currently servicing around 250 engines per year, we pride ourselves in our unrivaled specialist knowledge in the engines we support and ensure that each of our customers across different markets are offered tailored services to fulfill their needs, ensuring maximum customer satisfaction.

Capability to fully overhaul:

- AE 3007 Series
- Tay 650-15
- T56
- Model 250
- Industrial Avon
- Gem

Support services:

- On-Wing Care team available to cover all mentioned models plus the Trent 700;
- direct access to On-Wing Care global support network;
- dedicated Customer Business team;
- hospital capability for light repairs;
- flexible induction capacity to meet your aircraft maintenance schedule;
- expertise in worldwide logistics;
- world-class component repair services;
- direct access to both new and used Rolls-Royce certificated spare parts; and
- tailored services to satisfy customer requirements.

For more information on our repair and overhaul services, please do not hesitate to contact the address and number below.

Rolls-Royce Brasil Ltda
Rua Dr. Cincinato Braga 47
09890-900, São Paulo, Brazil
Tel: (+55) 11 4390 4800
Fax: (+55) 11 4390 4898
www.rolls-royce.com/services



Joint venture service centres

In addition to our wholly-owned repair and overhaul centres, we also have a number of joint ventures which remain committed to delivering the same outstanding gas turbine services based on the Rolls-Royce values of reliability, integrity and innovation.

Joint venture repair and overhaul service centres:

Erfurt, Germany

Engine capability:

- Trent 500
- Trent 700
- Trent 900

Go to: www.n3eos.com

Hong Kong

Engine capability:

- RB211-524 'Classic'
- RB211-524 G/H/-T
- Trent 500
- Trent 700
- Trent 800

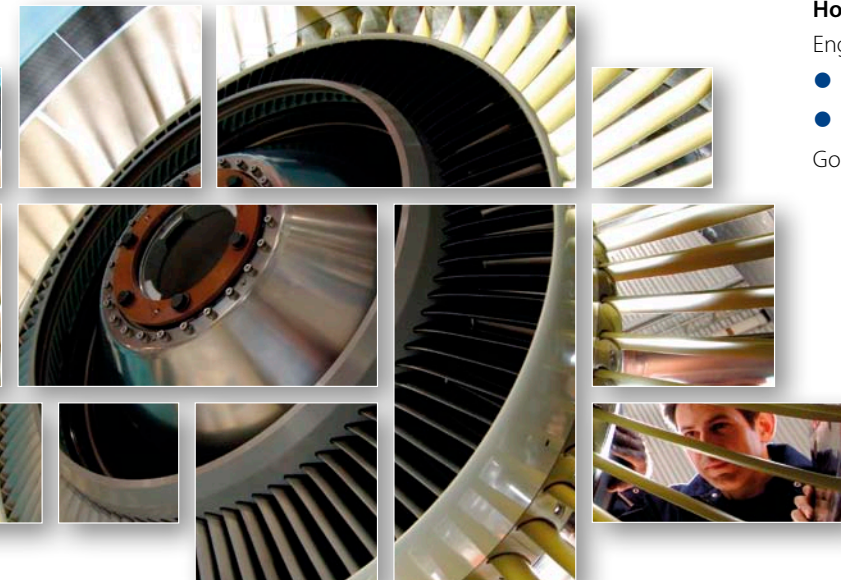
Go to: www.haesi.com

Houston, Texas

Engine capability:

- RB211-535E4
- Trent 800

Go to: www.taesi.com



Joint venture repair and overhaul service centres continued...

Singapore

Engine capability:

- Trent 500
- Trent 700
- Trent 800
- Trent 900

Go to: www.saesl.com

Aberdeen, Scotland

Engine capability:

- Industrial RB211
- Industrial Avon
- Industrial Olympus

Go to: www.rwgroup.com

Kuala Lumpur, Malaysia

Engine capability:

- Industrial RB211
- Industrial Avon

Go to: www.rwgroup.com

Houston, Texas

Engine capability:

- 501K

Go to: www.rwgroup.com

Joint venture Component Repair centres:

Singapore

Go to: www.ieco.com.sg

Derby, UK

Go to: www.trt-ltd.com

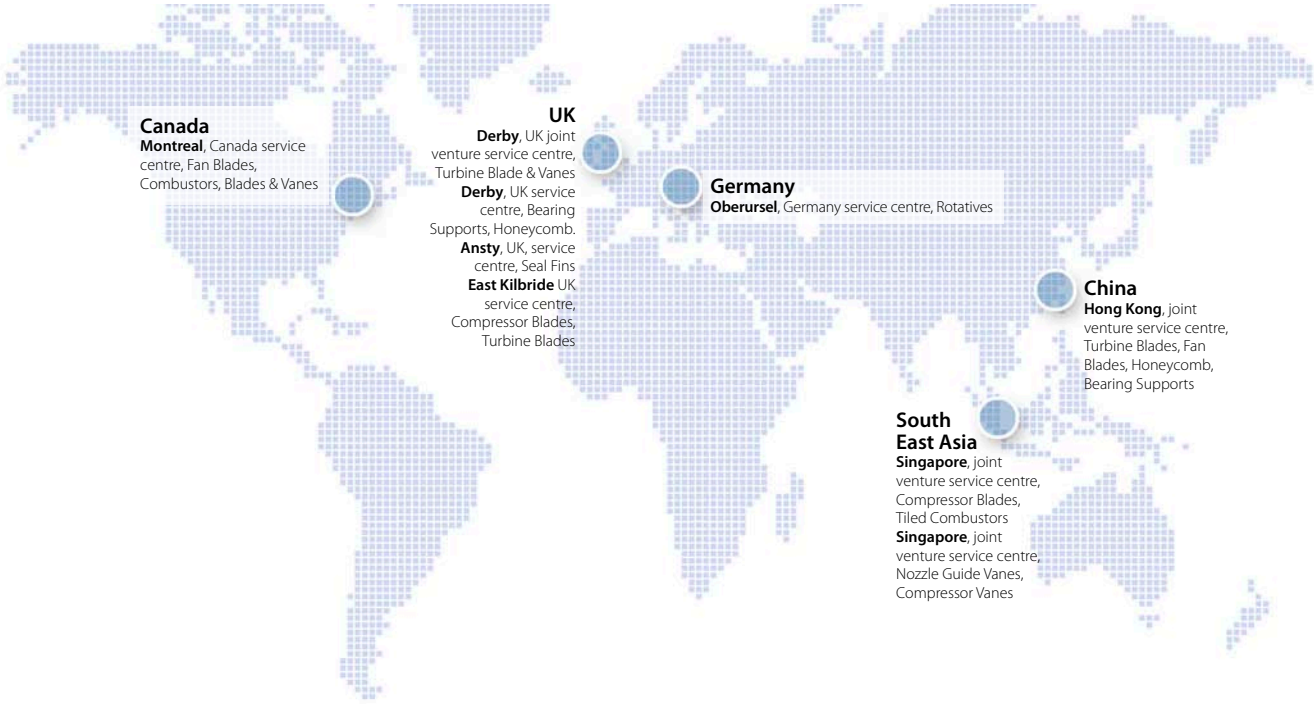


Component Repair service centres

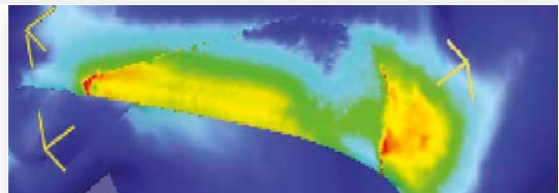
Capitalising on OEM expertise to deliver repair solutions to lower life cycle costs

In addition to the world-class component repair services offered by all of our repair and overhaul service centres, we have a further global network of 25 Component Repair Centres of Excellence. Annually, we repair more than 50,000 components to the highest standard using state-of-the-art technology. Furthermore, with over 140 dedicated repair engineers, we develop over 1,500 new repair schemes each year to ensure we remain at the forefront of technical innovation and expertise.

Our Centre of Excellence capability:



To find out more, please go to:
www.rolls-royce.com/services



Field Services

On-Wing Care

On-Wing Care is a global in-field specialist maintenance support organisation for Rolls-Royce gas turbine engines. Formed in 2005, On-Wing Care has utilised its in-depth product knowledge and unparalleled technical expertise to support more than 7,000 tasks since its inception, preventing over 300 operational events or repair and overhaul shop visits to date.

- 24/7 AOG Service
- Rapid response service
- 11 locations worldwide
- Fully mobile network of technicians

Services include:

- routine, non-routine and line maintenance support;
- hospital shop support;
- engine washing;
- borescope inspection and blending;
- Service Bulletin implementation;
- attrition liner and composite repairs;
- NDT inspections;
- non-modular unit changes; and
- engine/module change.

For more information please contact:

On-Wing Care United Kingdom

Tel: +44 (0)1332 244797

Email: on-wing.care@rolls-royce.com

On-Wing Care North America

24 hour AOG Tel: 1 – 887 – 4ROLLS-ROYCE

Tel: 1 – 887 – 476 – 5577 – 6923

Email: onwingcarenorthamerica@rolls-royceeso.com

www.rolls-royce.com/services



Integrated Data Management

OSyS

A wholly-owned subsidiary of Rolls-Royce Group plc, Optimized Systems and Solutions (OSyS) delivers software and services that reduce operating costs and optimise the availability of high-value equipment. With more than 400 employees in the US, UK and Qatar, we have more than a decade of experience providing proven mature processes and tools, such as integrated electronic process safety management systems and equipment health management, to a worldwide customer base that includes Fortune 100 companies.

OSyS software engineering and information technology expertise, combined with extensive domain knowledge and proven processes, enables customers to be more proactive, make more-informed decisions and prevent costly problems. OSyS also helps customers reduce risk to ensure compliant and profitable operations and to enjoy a predictive edge.

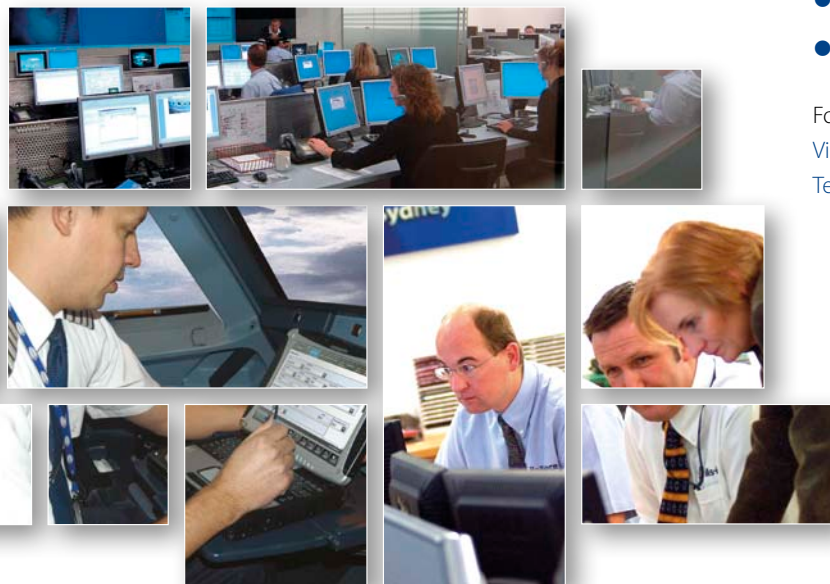
Services include:

- Equipment Health Monitoring;
- electronic flight bag;
- fuel management and optimisation;
- emissions management and reporting;
- fleet planning;
- fleet reliability management and reporting;
- risk informed planning and maintenance; and
- operational safety and management reporting.

For more information:

Visit: www.o-sys.com

Tel: +44 (0)1332 771700



Capability Management Services

Capability Management Services provides experienced personnel and expertise in order to support our customer's aspirations in all aspect of engine maintenance, repair and overhaul (MRO). The scope of Rolls-Royce capability offered extends from the formation of new facilities and product based training in an MRO environment, to the optimisation of systems and processes that differentiate and enhance business performance.

Capability provided:

Training

- engine and module overhaul based tasks;
- process improvement;
- enterprise and operations risk management; and
- health, safety & environment.

Facility Services – supporting the definition and development of existing and new MRO capability including facility design, workflow, layout, tooling provisioning and Enterprise Resource Planning (ERP).

Service Operations – subject matter experts for activities such as capability assessments and gap analysis; facility audits; supply chain planning & control; tooling provisioning and control; technical records management and workscope definition.

Engine Test – from facility design and manufacture, through commissioning, to providing operational management resource for new product introduction.

Project Management – integration of all support requirements into a professionally packaged programme delivered utilising project management principles and deployed specialist personnel.

For more information on capability service offerings, please do not hesitate to contact the address and number below.

Rolls-Royce plc
Capability Management Services
PO Box 31
Derby DE24 8BJ

Tel: +44 (0)1332 261670

Fax: +44 (0)1332 243443

Email: capabilitymanagement@rolls-royce.com



Asset Management Services

Engine Leasing and Parts Trading

A fully integrated but self-sufficient unit, Engine Leasing and Parts Trading, is authorised to trade on the behalf of Rolls-Royce, specialising in used and surplus parts and part life engines that can be offered for lease.

Parts Trading

Parts Trading offers support in meeting the requirements of those customers who have requested a low cost time and material solution to their engine overhaul needs, by buying, parting and stocking full engines, and purchasing individual used and surplus new parts as required to Rolls-Royce standards. In addition, we offer to support external customers suffering supply chain issues.

- More than \$30 million of parts within inventory

The Rolls-Royce Parts Trading group has extensive expertise in evaluating assets and is happy to work with customers to release value from their surplus inventory and engines.

Engine Leasing

Rolls-Royce delivers both short term and longer term lease solutions for civil aerospace spare engines. With a product portfolio that covers all in-service engines, we can support customers through planned or unplanned events.

- 20 worldwide storage locations enabling the optimisation of spare engines to support the whole of the customer base and to avoid unnecessary customer disruption
- Industry standard lease solutions

To discuss how we can help please contact:

Engine Leasing +44 (0)1332 245339

Parts Trading +44 (0)1355 278840



Rotables Services

Rolls-Royce offers the management of Line Replaceable Units (LRU) and Line Replaceable Parts (LRP). A dedicated team of contracts, engineering, purchasing, quality and logistics specialists manages a door-to-door service on behalf of a growing customer base. These services are all underpinned by the OEM vendor network and a global freight forwarding network with a proven track record.

- Global OEM vendor network utilised
- 24/7 Global AOG support
- Return logistics (Incoterms 2000 DDU)

Service includes:

- Airworthiness Directives (AD) and Service Bulletins (SB) recommended and alert;
- Beyond Economic to repair (BER) replacements;
- No Fault Found (NFF);
- all repairs released to EASA Form 1 & FAA 8130;
- access to exchange/loan assets;
- assets maintained to Rolls-Royce/OEM worksopes (CMP);
- line and shop coverage;
- defined list of covered assets; and
- internet based track and trace system with detailed reporting capabilities.

For more information please contact:

Email: rotables.services@rolls-royce.com

www.rolls-royce.com/services



The customer's first choice for services



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VCOM c50599 April 2011

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