

Component Parts Supply and Manufacture

Leading edge technology providing improved parts.

As an Independent Repair and Overhaul Facility Score Energy recognise the importance of providing customers with a high level of continued support for their Gas Turbine while the OEM may focus on latest production models.

Therefore in support of our customers Score Energy maintains over \$30 million of both new OEM and overhauled OEM parts (both Score and Customer owned), components and consumables for various manufacturers, including the Siemens TB5000/TB5400 range, Rolls-Royce (Siemens) Avon and Rolls-Royce (Siemens) RB211 gas turbines. These come with full traceability and a certificate of conformity as appropriate, as well as a market leading warranty as standard.

In addition to the stock holding of OEM parts Score Energy also manufactures quality assured components for the Rolls-Royce (Siemens) Avon and Siemens TB5000 gas turbines. These are designed and manufactured with full control over the raw material supply chain, utilizing the latest technological advances in machining, materials and coatings.

Stringent inspection and quality control is maintained to ensure world class components that provide considerable benefits to our customers, and perform equal to or better than the OEM parts they replace, giving customers the option to extend the service life of their 1533, 1534 or 1535 Avon engine or TB5000, TB5400 gas turbine derivatives.

Score manufactured parts include:

- HP, IP and LP Turbine Rotor Blades
- Turbine Cup Washer
- HP, IP, LP Nozzle Guide Vanes
- Thermocouple Harness
- Exhaust Cone Locating Sleeve Bush
- Turbine Rear Bearing
- Compressor Rotor Blades - All Stages
- Compressor Stator Vanes - All Stages
- Inlet Guide Vanes
- Actuating IGV Bushes
- IGV Actuating Rings
- Turbine Front Bearing
- Flame Tube Channel
- Single Dish Flame Tubes
- Triple Dish Flame Tubes
- Swirler Burner Flame Tubes
- Low NOx Flame Tubes
- Discharge Nozzle
- Flame Tube Bridge Piece
- Cooper Beam
- Seals and Gaskets



For further information on our various product and service capabilities, please visit www.score-energy.com

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Avon® and RB211® are trademarks held by Rolls-Royce plc, which is not affiliated with Score Group plc.
TB5000 is a trademark of Siemens AG, which is not affiliated with Score Group plc.



Score *Energy Limited*
Intelligent Gas Turbine Solutions™
www.score-energy.com



Gas Turbine Overhaul, Repair and Testing



Approvals held within the Score group of companies

Gas Turbine Overhaul and Repair

A customer centric approach coupled with the latest service facilities delivers a service experience second to none.



Score Energy have built an award winning and customer focused Gas Turbine business based on technical expertise, exceptional customer relationships and support. Established over 30 years ago as an independent supplier of industrial and aero-derivative gas turbine services, providing owners and operators the highest integrity alternative to the OEM. We specialise in overhaul, repair, upgrade, modification, testing and supply of Rolls-Royce Avon and Siemens TB5000/TB5400 gas turbines, their fuel systems, accessories and spare parts.

Our goal has always been to provide complete customer satisfaction by delivering flexible, cost effective and reliable solutions which combine quality, technical innovation and improved performance.

We recognise the importance of providing fast turnaround times, tailored to suit customer requirements and hence adopt a system where we manage all related services in-house. We also hold an extensive parts inventory and rotatable exchange pool ready to be called upon at a moment's notice.

Our highly qualified and dedicated team form a worldwide service network, available 24 hours a day and 365 days a year.

Industry Leading Services

Our purpose built gas turbine overhaul and test facility located in Aberdeenshire, Scotland provides customers with a comprehensive service for the **Rolls-Royce Avon** and **Siemens/Ruston TB5000/5400**.

By going beyond current industry standards for service and quality we provide a superior solution through the application of advanced repair schemes and coating technologies, whilst maintaining the highest standards of Quality, Health and Safety via ISO9001, ISO14001 and OHSAS18001. As a result, module assembly and engine final build standards achieve consistently higher levels of operational efficiency and reliability.



Advanced Component Repair

Providing an industry leading component inspection, repair and overhaul service.



Score Energy provides an industry leading component inspection, repair and overhaul service to operators in the power generation and oil & gas industries.

We offer a full suite of in-house component overhaul capabilities and have developed advanced coatings and treatments which can improve turbine performance and extend service life.

Advanced repair schemes have been developed by our team of highly trained engineers and allow us to salvage components which would otherwise be replaced with costly new parts.

Our workshops contain a fully equipped non-destructive examination (NDE) laboratory with Fluorescent Dye Penetrant Inspection, Magnetic Particle Inspection, X-Ray, Hardness Testing and Positive Material Identification.

Enhanced Services Include:

- Ultrasonic and Pyrolytic cleaning
- Electron beam welding
- Specialised surface treatment and coatings
- Automated welding
- Repair and component salvage
- Electro discharge machining
- Vacuum brazing



Gas Turbine Performance Testing

Providing a state of the art gas turbine test facility.



The GLEN (Ground Level Engine) test facility located in Peterhead, Scotland was opened in 2003 to provide a state of the art gas turbine test facility to operators in power generation and oil & gas industries.

At its core the GLEN has capabilities that were originally developed and used for the original performance testing of the Euro Fighter Typhoon and a vast range of Rolls-Royce aero-derivative gas turbines, including the Avon. Today it has the latest technology and is utilized for dual fuel testing of a full range of industrial and aero-derivative gas turbines

The test facility features a thrust bed enabling comprehensive performance testing on both gas and liquid fuel, also fitted with sophisticated emissions monitoring equipment enabling a real time comparison against legislative requirements such as ISO 11042-1.

We have carried out emission testing for a number of worldwide research institutes. Tests can be streamed online providing a web based remote witness testing facility.

- Dual Fuel Testing Capability
- Vibration Spectral Analysis
- High Performance Data Logging System
- Electric & Air Starter Systems
- Witness Viewing Gallery
- Customer Controlled Video



Field Service Support

Our worldwide-field service centres allow us to provide rapid support where you need it, and when you need it anywhere in the world. Whether it be for scheduled or unscheduled requirements Score Energy have fully trained field service representatives ready to mobilise.

- Trouble shooting, routine inspection and maintenance
- Onsite repairs
- Consultancy and maintenance planning
- Boroscopic inspections
- Gas turbine installation & commissioning
- Technical support
- GT removal/reinstallation
- RCA support