



PARSONS PEEBLES

ENGINEERING EXCELLENCE

Engineering Excellence.

TDC Parsons Peebles is the last remaining wholly owned UK manufacturer of high voltage motors and generators in the range of 3.3kV to 13.8kV and up to 50MW. For over 120 years, our clients have trusted in our vast experience and expertise to design, manufacture, and install highly optimized machines for their most challenging installations. In addition to our industry leading manufacturing capabilities, we provide workshop services, performance testing, site services, refurbishments and repairs, rewinds, hazardous area re-certification and supply of spares for all HV, MV and LV machines of any manufacture.

TDC Parsons Peebles is a wholly owned Scottish company with our main manufacturing facility based in Rosyth and complimentary TDC Group operations in Aberdeen. Our company has a long history dating back to 1898 when Bruce Peebles founded the company in Edinburgh. Our company name has changed over the years, with the name 'Parsons' being added with the formation of Reyrolle Parsons Group in 1969. Today, we go by the name TDC Parsons Peebles and form part of the TDC Group.

TDC Parsons Peebles is a leading supplier to a wide range of industries including Oil and Gas, Petrochemical, Power Generation, Renewable Energy, Defence, Mining and Minerals, Cement and Aggregates and Nuclear.

Timeline

- 1898** — Original business formed by David Bruce Peebles. Business named Bruce Peebles Company Ltd.
- 1909** — Electric Products Inc established in USA.
- 1969** — Bruce Peebles Industries merged with Reyrolle Parsons. Business renamed Parsons Peebles Ltd.
- 1977** — Northern Engineering Industries (NEI) established. Business renamed NEI Bruce Peebles Ltd until 1981, then name changed to NEI Peebles Ltd.
- 1979** — NEI Peebles Ltd acquires Electric Products, a division of Portec Inc.
- 1989** — NEI Peebles Ltd becomes part of Rolls Royce Industrial Power Group.
- 2013** — NEI Peebles Ltd acquired by Peterson's Quarries Ltd and renamed Parsons Peebles Generation Ltd.
- 2015** — Parsons Peebles acquired by Clyde Bowers Capital.
- 2017** — Parsons Peebles rebrands Group.
- 2020** — TDC Group Ltd acquires Parsons Peebles. Business rebranded TDC Parsons Peebles Ltd.



New Builds

For over 120 years, TDC Parsons Peebles has designed, manufactured and supplied large, bespoke HV motors, generators and rotary frequency converters. Today we provide an unparalleled range of solutions for critical applications through to specialist custom designed and manufactured motors to suit the most challenging installations. Our design team's unique, industry-leading direct replacement drop-in solutions provide peace of mind even when supporting very old installations.

Custom Builds - TDC Parsons Peebles specialises in designing bespoke machines to fit a wide range of applications in thousands of installations across the globe. Our attention to detail and strong commitment to continuously exceeding customer expectations is engrained in every part of our organisation from our tendering process through to our installation and aftermarket services. Whether working on an energy plant, offshore or industrial application, our dedicated specialists will ensure that the lifecycle of your machine is maximised, be it a TDC Parsons Peebles or third-party machine.

Drop-in Replacements - When an operator needs to replace a motor that has reached the end of its useful life, TDC Parsons Peebles will provide a direct drop-in replacement unit regardless of the unit's original manufacture. In addition to ensuring that the new unit is interchangeable with the original, we also usually recommend making upgrades to the old unit's design and performance. If required, our engineers can also supply a 'dual use drop-in replacement' which allows a single motor to perform multiple functions, thus increasing the return on investment for the operator.

Rotary Frequency Converters - Rotary frequency converters are an ideal solution for converting the input frequency of one power source to another. Unlike solid state converters, rotary frequency converters do not create a synthesised output voltage, which means that they avoid damaging harmonics. TDC Parsons Peebles are the UK's leading supplier of rotary frequency converters, with over 40 units supplied in our company's recent history. Our portfolio of rotary frequency converters ranges from small portable units to bespoke 15MVA sets complete with full system controls.

Key Services

- Induction Motors and Generators (MV & HV)
 - 500kW up to 20MW
 - 3.3kV to 13.8kV - 50Hz & 60Hz
 - 2-Pole up to 40-Pole
- Slipring Motors and Generators
 - 500kW up to 20MW
 - 3.3kV to 13.8kV - 50Hz & 60Hz
 - 2-Pole up to 40-Pole
- Synchronous
 - Salient Pole Motors and Generators
 - 2-Pole up to 40-Pole up to 50MVA
- Rotary Frequency Converters:
 - 50Hz & 60Hz - 300kVA up to 20MVA
- Power Upgrades
- Change in Driven Equipment Speed
- Reduced Starting Current
- Reduced Noise Levels
- Typical Design Life of 40 Years
- Extensive Range of Enclosure, Cooling, Mounting and Bearing Options Available
- Area Classifications Include Safe, Exn A, Ex p, Ex e
- Packaged Solutions Available Including VSD, Soft Start, Switchgear and Control Systems
- Reverse Engineering Increased Outputs
- Full Solution from Site Survey through to Commissioning



Workshop Services

TDC Parsons Peebles repairs, overhauls and rewinds all types, sizes and brands of AC/DC motors and generators quickly and efficiently, restoring motors and generators to maximum efficiency while minimising unplanned downtime. Our total repair solution ensures that we are able to meet and exceed all of our clients' maintenance needs.

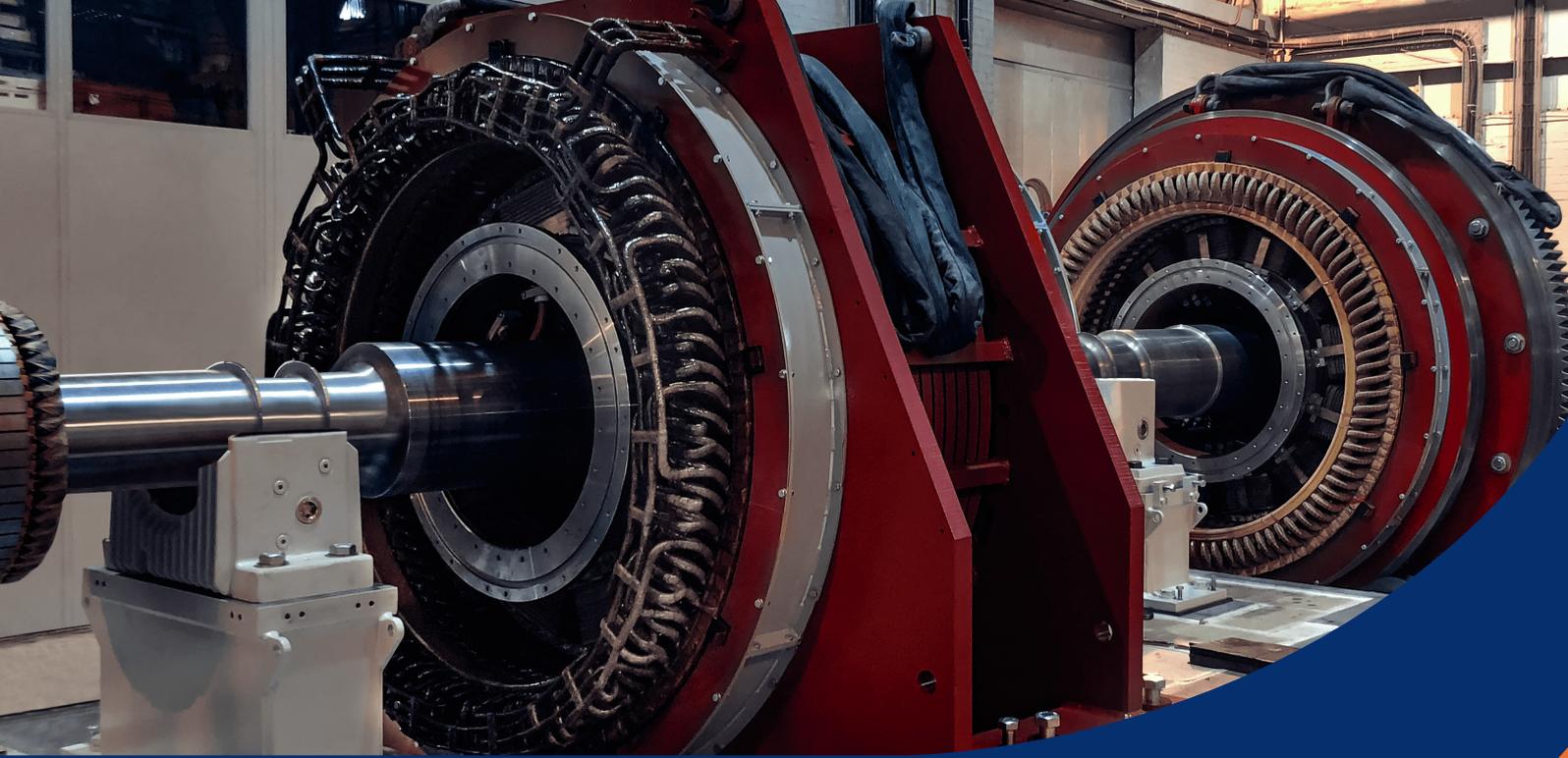
TDC Parsons Peebles has a fully furnished workshop facility located in Rosyth, Scotland which is easily accessible by road, air and sea. Our experienced service engineers carry out inspection, condition assessment, repair and refurbishment and our supervisors ensure that all work is completed to the highest OEM standards of quality. We also offer a re-certification service for hazardous area machine repairs including retrofit upgrades.

TDC Parsons Peebles is in a unique position to provide industry leading motor and generator services and repairs, with a workshop facility that boasts a 63-tonne lifting capacity and the exclusive ability to fully load test up to 13.8kV.

Our dedicated team is available 24 hours a day, 365 days a year, working tirelessly in our facilities and on-site to provide our clients with the highest standards of engineering excellence.

Key Services

- HV Rewind Services
- Major Repairs and Overhauls
- Minor Repairs
- Total Rebuilds
- Condition Monitoring
- Vibration Analysis
- Dynamic Balancing
- Trim Balancing
- Root Cause Analysis
- Purge System Testing and Commissioning
- Re-Engineered Solutions
- Thermographic Surveys
- Maintenance Packages
- AEMT Certified Repairs
- 63-Tonne Lifting Capacity
- Unique Performance Testing Services
- All AC and DC Motors and Generators
- 24 Hour Availability



Performance Testing

TDC Parsons Peebles' Rosyth workshop facility provides a complete range of test facilities for high voltage motors and generators. All tests are carried out in compliance with the latest international specifications and standards.

TDC Parsons Peebles operates one of the most comprehensive test facilities in Europe, which has been fully optimised to handle medium and high voltage motors and generators. Our unique testing configuration allows us to conduct condition assessment and full load testing of both new and refurbished reverse-engineered units, with direct load testing of induction motors up to 8.0MW at 60Hz and 7.5MW at 50Hz. Synchronous motors and generators up to 65MVA can also be tested by employing the open circuit zero power factor method. By thoroughly testing equipment prior to mobilisation, our customers can have full confidence that all new and refurbished machines will meet or exceed operational requirements when installed on site. Our Rosyth facility's main bay has an overhead lifting capacity of 63 tonnes with additional lifting capacity of 25 tonnes and 15 tonnes.

Our dedicated team is available 24 hours a day, 365 days a year, working tirelessly in our facilities and on-site to provide our clients with the highest standards of engineering excellence.

Key Services

- HV Motor and Generator Testing
- 3.3, 6.6, 11 and 13.8kV Running Tests
- Thermography and Vibration Analysis
- Shaft Current Discharge Analysis
- Laser Alignment
- Direct Load Testing up to 8MW
- Synchronous Testing up to 65MVA
- Locked Rotor Tests and Starting Torque Measurement
- Testing to BS EN IEC60034
- Purge System Testing
- AC/DC Hi-Pot Testing
- Overspeed Testing
- Noise Testing
- Full FAT Capability
- Trim Balancing
- Core Flux Testing
- EL-CID Testing
- 24 Hour Availability



Site Services

TDC Parsons Peebles repairs all types of motors and generators both on site and at our workshop facility in Rosyth. Our reputation and wealth of experience has firmly established us as the go to site service provider for a large number of major utility, energy and industrial companies. We ensure that our clients' critical systems and infrastructure, which underpin the key services upon which the public relies, are well maintained and function at optimum efficiency. Our drive to exceed client expectations means that our experts are available at short notice to deliver whatever specialised services are required; anything from minor inspections and root cause analysis to entire turnkey projects, which incorporate installation and maintenance through to bespoke solutions for upgrading equipment.

TDC Parsons Peebles is the approved repairer and distributor for a vast number of manufacturers in a multitude of industries. Our experienced engineers are certified to carry out repairs in hazardous conditions and to AEMT standards. Our highly trained technicians combine the latest diagnostic and analysis software with our 100+ years of industry knowledge to provide our clients with unrivalled technical solutions.

Our dedicated team is available 24 hours a day, 365 days a year, working tirelessly in our facilities and on-site to provide our clients with the highest standards of engineering excellence.

Key Services

- Motor and Generator Repairs
- Installation and Commissioning
- In-Situ Rewinds
- Various AC/DC Motors and Generators
- Dynamic Balancing
- Vibration Analysis
- Laser Alignment
- Experienced and Competent Engineers
- Maintenance Packages
- AEMT Certified Repairs
- Full Site Acceptance Testing
- Purge System Installation and Commissioning
- Root Cause Analysis
- Core Condition Testing
- PD and Tan Delta Testing
- Re-Engineering Solutions
- Decommissioning and Stripping Out
- System Upgrades
- 24 Hour Availability



Spare Parts

TDC Parsons Peebles provides full traceability and design data for all our machines manufactured in the last sixty years. Replacement parts can be provided on supply of a serial number or project reference.

Furthermore, we have the capability to manufacture bespoke parts for all electromechanical technologies. This not only includes parts for TDC Parsons Peebles designed and third-party machines, but also components for obsolete equipment.

As well as stocking a wide range of specialist, standard, OEM and made-to-measure parts at our branch, we also have access to a global network of partnerships and can provide all types of components from concept to delivery. Utilising our flexible engagement models, we can create accounts for large, repeat purchases. We also accept all major debit and credit cards for small one-off purchases.

Our dedicated team is available 24 hours a day, 365 days a year, working tirelessly in our facilities and on-site to provide our clients with the highest standards of engineering excellence.

Key Services

- Bearings and Bearing Housings
- Seals and Tooling
- Maintenance Products
- Cover Plates
- Heaters
- Cabling
- Couplings
- Bushes
- Adaptor Plates
- Glands
- Replacement Terminal Boxes
- Gaskets
- Rotor Bolts
- Switches
- Coolers
- Rectifiers
- RTD's
- Insulation
- Fixings
- Purge Systems
- Capacitors
- Thyristors
- Zener Diodes



Storage and Preservation

At TDC Parsons Peebles, we are often tasked with repairing incorrectly stored machines. Such equipment damage can easily be avoided by employing best storage and preservation practices, however, once the damage is done, the consequences are expensive to rectify. To compound the problem, equipment damaged in this way often remains undetected until installation and commissioning, resulting in unnecessary and inconvenient delays.

Although motors and generators are known for their robustness, improper care often results in reduced reliability and problems during installation and commissioning. Even relatively minor vibrations, environmental fluctuations or moisture experienced by a machine while it is lying dormant can, over time, result in bearing damage, corrosion and the degradation of insulation.

TDC Parsons Peebles' 24,000 ft² storage facility boasts a 30 tonne lifting capacity and benefits from ready access to major motorway links. Our facility enables us to manage components, sub-assemblies and spare parts to the same level of care as complete machines. While in our care, your machine, documentation and any associated components are available on demand and safe and timely return of your assets is guaranteed.

By streamlining the logistics of electrical machine storage, TDC Parsons Peebles has eliminated unnecessary bottlenecks and expenses from our processes. No matter what the application or duration of your storage requirements, you can rest assured that TDC Parsons Peebles will provide you with an optimal solution.

Our dedicated team is available 24 hours a day, 365 days a year, working tirelessly in our facilities and on-site to provide our clients with the highest standards of engineering excellence.

Key Services

- 24,000 ft² Facility
- 30 Tonne Combined Crane Capacity
- 24/7 CCTV Surveillance
- Intruder Alarm
- Vibration Free Environment
- Temperature Controlled Environment
- Regular Inspections by Specialised Engineers
- OEM Levels of Care
- Complete Inventory Management
- Ideally Located near Motorway Links
- Visual Inspection
- Thorough Clean
- Paintwork Touch-Ups
- Treatment of Exposed Metal Surfaces
- Bearing Journal Care
- New Desiccant
- IR Checks
- PI Checks
- Shaft Rotation
- Energised Space Heaters
- Bearing Inspection / Re-Build
- Pre-Despatch Testing (Light Run / Full Load)

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