

On Site Services

Installation and Commissioning

A team of specialist engineers are available to undertake all your sitework requirements -

- 415V multi-motor control panels
- HV circuit breakers and starter panels up to 11KV
- Motors and generators, AC and DC
- Motor purge systems
- Tasc and Heenan systems
- Primary and secondary protection injection
- HV pressure testing
- Functional testing



Plant Maintenance and Condition Monitoring

The company offers a comprehensive Plant Maintenance service -

- Transformers and HV circuit breakers
- LV and HV circuit breakers and starters
- Motors and generators
- Protection devices

Condition Monitoring includes -

- Vibration analysis
- Multiplane balancing
- Laser alignment
- IMCA, ELCID, TVA probe testing



Modifications and Repairs

Sitework undertaken on LSE products and on equipment supplied by other manufacturers -

- Extension to existing plant
- Replacement of air break to vacuum contractors
- Switchboard refurbishment
- Light pressurisation and oil jacking kits
- NS motor refurbishment
- Motor repairs, removals and replacements
- Insitu motor rewinds
- Circuit breaker replacement
- Rogaoski coil retrofits



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- Rotating Machines Spares and Repairs
- Control Gear Service
- On-site Services

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After Sales Service



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**Laurence, Scott
& Electromotors**

Laurence, Scott & Electromotors Ltd

The Company

Since 1883 Laurence, Scott & Electromotors Ltd (LSE) have been a leading designer and manufacturer of electrical rotating machines and control gear, pioneering the application of electrical power in many fields.

The Company has accumulated extensive experience and skill in a broad spectrum of industries world wide including: processing and manufacturing, petrochemical, power generation, mining, marine, offshore (oil and gas exploration and production), desalination, nuclear, power, steel, defence and water industries.

LSE is now the Centre of Excellence for the manufacture of MV and HV Induction Motors. The product range has been enhanced by the integration of the Brush ranges of induction motors, which are now manufactured at Norwich.

Quality Assurance

The design and manufacturing processes are administered by the Company quality management system that has been assessed and certified to meet the requirements of BS EN ISO9001: 2000.



Rotating Machines Spares and Repairs



Rewind and Coil Manufacture

Simple rewinds to complex multi speed and specialist redesign and updating service -

- Full rewind facilities up to 20MW and 15kV
- High specification coil manufacture
- NS motor design and repair specialists
- Rotor rewind and rebars / induction brazing technique
- Design studies for uprate and modifications
- Flameproof motor repairs
- VPI, resin rich dip and trickle or hybrid impregnation techniques



Testing

Complete coil, stator and rotor testing together with load testing to 7.5MW at 11kV -

- Full flux and ELCID
- TAN Delta and DLA
- TVA probe detection
- Impulse testing to 100kV
- Noise and vibration analysis
- 60Hz supply
- Overspeed, locked rotor, torque speed determinant

High Voltage Motor Service

- Centre of excellence for LSE and Brush motors
- Spares and repairs
- Electrical and mechanical design resource
- Full manufacturers warranty
- Rail traction motor and generator service
- Spare wound stator cores
- Spare rotors



Machining and Mechanical Repairs

A complete motor design and manufacturing service -

- Full machining and fabrication capability
- Shaft manufacturing and replacement
- Rotor balancing up to 13.5 tonnes
- Lamination and core building



Control Gear Service

Switchboard Modifications LV and HV

Integrated engineering, design and manufacturing service -

- Additional motor starters, fuse switches etc. for equipping spare or semi-equipped cubicles
- Relocation of existing drives to obtain the most effective solution
- Spare starters supplied assembled, wired and tested
- On site installation
- Switchboard extension tiers supplied to harmonise with existing equipment
- Non standard arrangements catered for by utilising turning chambers and bus ducting



Refurbishment and Repairs

Customers repairs undertaken at our factory or at customers site covering -

- Centaur
- Thyraur
- Tactor Board
- Asval
- Slendaur
- V/S drives
- Discovac
- Asrecs
- Minotaur
- Tactorvac
- Unitaur
- Ascrons

All work has the full support of LSE technical resources and carries a full manufacturers warranty.



Consultancy and Training

Assistance with technical projects -

- Design and feasibility studies
- Advise on equipment modifications up to 11kV
- "Training of customers" staff on site or at LSE works

Spares

Comprehensive historical records enable -

- Efficient and fast responses
- Modern equivalents to be supplied for obsolete components
- Commissioning, operating and strategic spares



Total Customer Satisfaction

We have a long established reputation for quality and excellence in the field of customer service. Our efficient After Sales Service is structured to provide total customer satisfaction and to compliment our world-wide reputation as a major manufacturer.

Total Service

Our wide range of services offered is comprehensively detailed throughout this brochure and includes a complete support service and spare parts for all LSE equipment and Brush manufactured induction motors. We also have the technical and manufacturing capability to support equipment not of our manufacture, such as LV and HV control gear and rotating machines.

Total Dedication

The skills and dedication of the LSE After Sales Service Team enable the most complex issues to be resolved. Service rates are set to offer competitive price levels for all aspects of repair and equipment overhaul.