



Product Range

Motors & Rewinds

It is our aim to provide a solution to your problem and more importantly to your satisfaction.

We are one of Europe's largest suppliers of new and reconditioned electrical equipment, our involvement and knowledge in Motors and Rewinding equipment dates back to 1947.

Bowers Electricals carry extensive stock of new, energy efficient induction motors and DC machines. We are the leading distributor and approved repair centre for Brook Crompton Motors.

Bowers Electricals offers a full turnkey operation that includes the supply, overhaul, rewind and repair of customer property, as well as ongoing service, maintenance and expert project management of all development, regardless of size.



Bowers Electricals boasts a prestigious list of clients from across the public and private sectors, throughout the UK including:

- Construction
- Food Industry
- Hospitals, Schools & Universities
- Oil, Gas & Water
- Manufacturing
- Ministry of Defence
- Transport
- Renewable Energy - Wind & Solar



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British Heritage • Global Reputation • World-Renowned Expertise

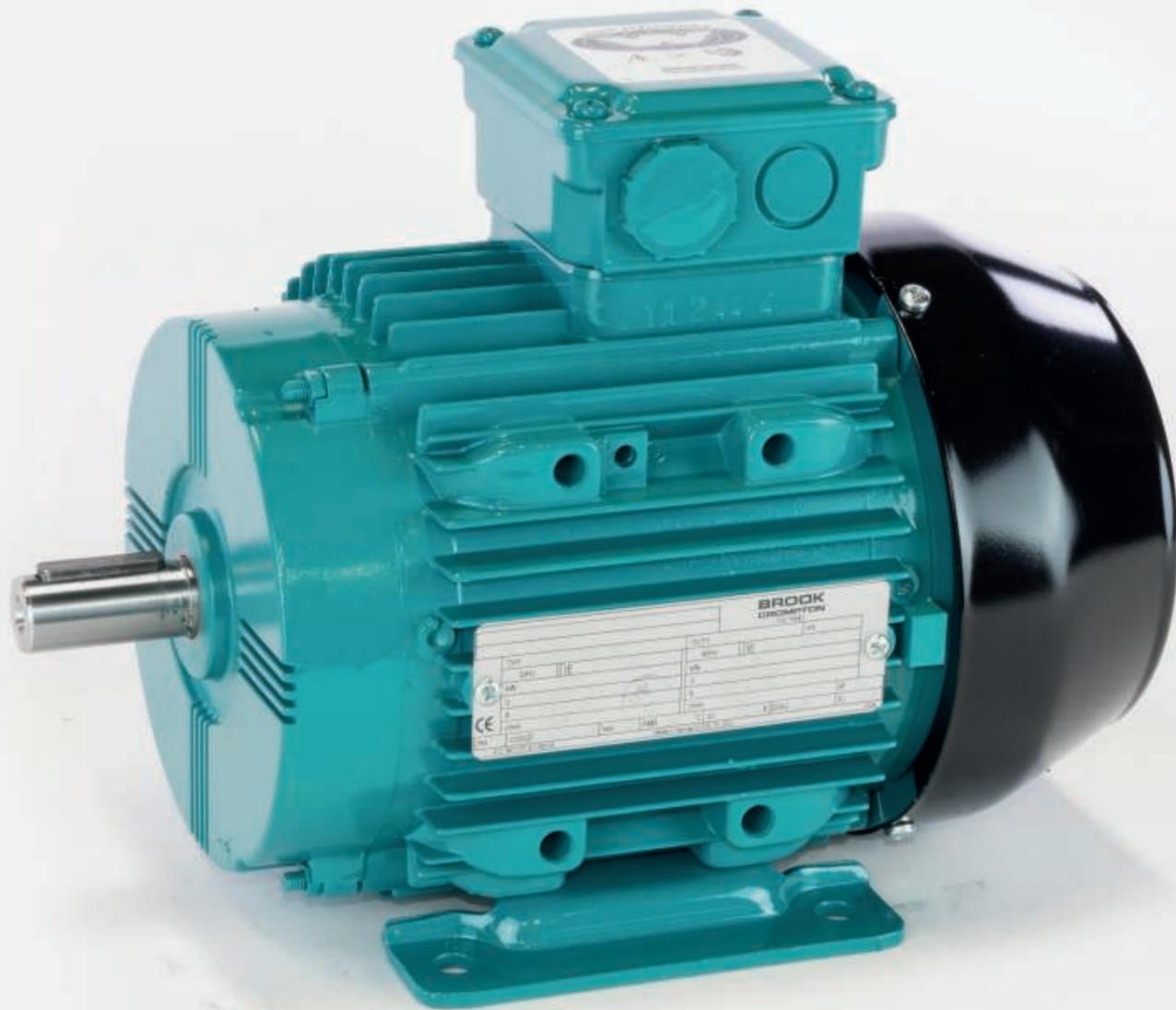
New Motors

Bowers Electricals Ltd have in stock a large range of new Induction motors and DC machines. Bowers generally hold in stock new motors up to 500kW.

Products include:

- Reconditioned Slip Ring and squirrel cage Induction motors up to 5000kW
- Energy efficient motors
- Flame-proof motors
- Variable speed drives
- Cooling Fans
- DC Motors
- Thyristor drives & Inverters
- DOL Starters, Star delta starters, Stator Rotor starters. Gearboxes

We are also able to supply many larger sizes of machines through association with an overseas partners which also substantially broadens the range of offered machines.



Bowers Electricals is an approved Brook Crompton UK Motor Centre.

Bowers Electricals are able to supply a full range of Brook Crompton W and S10 motors. We provide full product knowledge, with fully qualified and specialist engineers.

Brook Crompton is a leading provider of energy efficient energy motors, known for delivering quality and innovation for over a century. Bowers offer Brook Crompton's comprehensive range of low, medium & high voltage motors, our drives packages provide assured efficiency and reliability in a user friendly variable speed drive system.

Brook Crompton is focused on the development of products that improve energy efficiency, offer lower cost of ownership throughout their life-cycle and reduce environmental impact.

Motor Rewinds

Rewinding improves the longevity of your motor, whilst saving you money.

Bowers Motor Rewind & Repairs division offer full rewinds and repair, re-design, and servicing of all types of HV & LV AC Induction motors, Alternators, DC machines and other associated rotating equipment. We offer winding and repair up to 36kV, including in house coil winding, if needed we also replace insulation to maintain or improve original manufactured efficiencies during the rewinding process.

Our on-site test & drying facilities allow us to carry out re-manufacture and testing from the smallest of motors up to large high voltage machines.

We have a highly trained team of engineers with many years of winding & repair experience and are authorised flame-proof and hazardous motor repairers to include current ATEX standards.



Electro Mechanical Repairs

Bowers Electricals undertakes many electro mechanical repairs which complement our manufacturing, repair & rewind facilities. We have substantial machine shops which can produce most mechanical components utilising our experienced mechanical engineering team.

Traction

Bowers Electricals have the capacity to undertake a wide range of engineering projects. We offer a full range of transport infrastructure maintenance, carrying out overhauls and repairs to traction motors, bogies, and traction wheels.

Bowers Electricals have the manufacturing workshop facilities to press up to 50 tons, and the manufacturing facilities to design and produce most mechanical components.

(Below) Removal of the power plant of a Class 20, 1,000hp (75kw) Diesel Electric Locomotive ready for Bowers to overhaul.



Fabrication

Our fabrication facilities include production of all types of Power & Distribution Transformer tanks, Substation base frames, oil disconnection & bus bar chambers, Containerised substation modification and LV switchboard enclosure for both inside & outdoor use.

Balancing & Machining

We have fully equipped machine shop facilities available for all types of machining, milling, welding, radial drilling, metal spraying & balancing.

This section also has one of the largest centre lathes available within the industry allowing machining of large armatures, shafts, and rotors. Re-keying and re-shafting of rotors are carried out on a routine basis, along with specialist motor repairs and motor part manufacture. This division also manufactures many component parts required by our Transformer & Switchgear divisions.



(Right) 2000 HP Stator from a Mather & Platt Electric Motor used to drive a Hydrogen Pump.

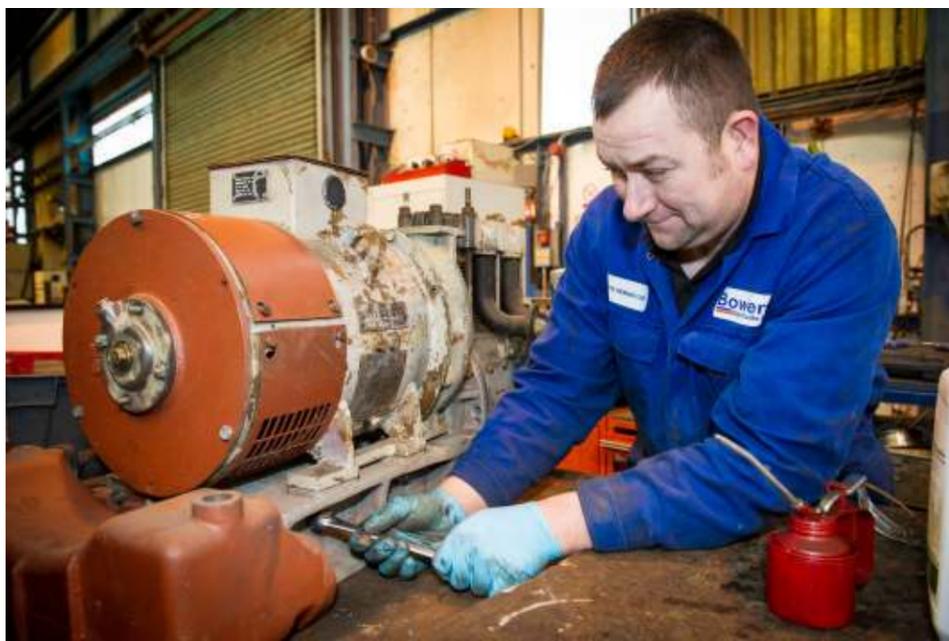
Gearboxes, Pump & Associated Equipment

Bowers Electricals offer a full service and overhaul of Industrial Gear boxes, Pumps, and associated equipment. Our service engineers provide both in-house and on-site for repair and service of gear boxes, pumps and fans and associated equipment including installation.

Extensive range of geared motors and gearboxes available on request, including:

- Helical in line to 7.5kW
- Helical worm to 2.2kW

Our service engineers are available to service your machinery from our workshop in Hearnor, Derbyshire or on-site at your premises.



EX Training

All our engineers are specially trained to the correct procedures and practices to be used for the overhaul of explosion protected motors, pumps, gearboxes and other equipment.

EX training ensures that our service engineers are compliant with the original certification to which they were manufactured, and/or comply with the original standards used, as well as a comprehensive understanding of the legal requirements, risk assessments, and health and safety requirements, when overhauling and maintaining EX apparatus.

Bowers Electricals is considered one of the leading electrical repair and service companies. Our vast range of on-site facilities and stocks allow reduced downtime and flexibility to cover our client's requirements on a 24 hour basis. Services include:

- Service, maintenance, and exchange.
- Installation/commissioning
- Vibration analysis
- Thermographic analysis Energy surveys
- Motor management schemes.
- Plant hire.
- Oven sizes up to 4m x 4m x 6m high
- Paint spraying (equipment up to 3m cubed).
- Machining and balancing between 2.5 and 10 tonnes.
- 8 overhead cranes allow a maximum lift of 30 tonnes.
- On-site training and presentation facilities.
- Testing facilities - Available for AC and DC supplies with load testing up to 200kW.



As a founding member of the AEMT (Association of Electrical machinery trades) Bowers Electricals Ltd, can provide approved AEMT training courses, and tailored training courses to your individual requirements.

The AEMT is the international trade association for all companies who supply, install, service, maintain and repair industrial machinery technology such as electric motors, drives, pumps, fans, gearboxes, generators, transformers, switchgear and ancillary equipped mechanical engineering facilities.

(Right) David Bowers accepting his Lifetime Contribution award at the AEMT Awards in 2017.



Bowers

The logo graphic consists of two horizontal bars. The top bar is white and the bottom bar is red. They are positioned to the left of the text 'Electricals Ltd'.

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