



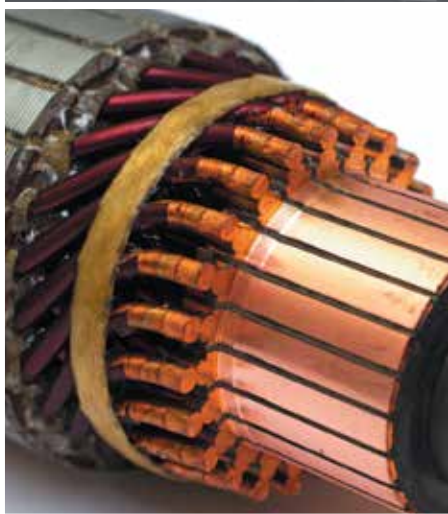
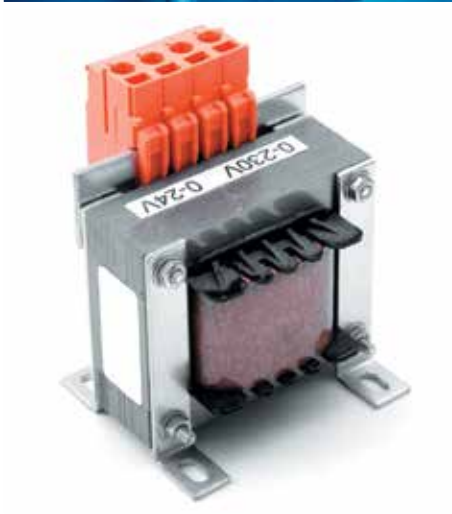
R Baker (ELECTRICAL) Ltd.

Solution-led electrical and mechanical services



Products
& Services

www.rbaker.co.uk



For more information please contact us on **0151 486 6760** or email: **mail@rbaker.co.uk**



About us

R Baker (Electrical) Ltd was founded in 1982, and has enjoyed substantial growth ever since.

In 1990, the company expanded into our current purpose-built premises in Liverpool, a site which facilitates a wide range of electrical manufacturing and electrical repair.

- **Expert advice**
- **Bespoke solutions**
- **Quality assurances**
- **Competitive pricing**
- **Free & fast quotes**
- **Short lead times**

Services

Through regular investment in new technologies, and a rigorous 24-hour on-demand service, we maintain an outstanding level of service and quality. As a company, we bring together Defence, Marine, Oil & Gas, Pharmaceutical and Industrial expertise to offer a comprehensive range of bespoke electrical engineering services.

Quality

Our customers are at the heart of what we do, where we put a big emphasis on ensuring high standards of delivery and customer satisfaction. We have an effective Quality Assurance Framework to monitor and improve service delivery, together with a robust Quality Management System; validated by external accreditation to BS EN ISO 9001:2008.

Why us?

We believe our success comes from our determination to understand each and every customer with whom we work with, focusing on quality, cost and smooth delivery, to find affordable, flexible solutions that best suit your business.

www.rbaker.co.uk

Transformers

R Baker (Electrical) Ltd manufacture custom designed transformers to meet the requirements of a customer's individual application.

Service

Our team has a long history of manufacturing and repairing transformers. This allows our technical team to design, modify or even reverse engineer to your specification. Our manufacturing facility allows us to offer short lead times and high quality products at competitive prices.

Our range

We have the ability to manufacture single and three phase transformers from 18VA to 1MVA to comply with IEC61558 and IEC60076, and have facilities to repair or rewind transformers up to 2MVA. Our range includes auto transformers, double wound isolation transformers for continuous duty and bespoke designs to meet your requirements. Whether your requirements is a one-off control panel transformer or a complex variable power supply with particular requirements; our design team are here to help.

Quality

Our quality standards and procedures are monitored independently to BS EN ISO 9001:2008 and are subject to regular internal and external audits. We also work with all the leading testing and quality authorities such as BSI, DNV, Lloyds, NSN, Nemko and VDE, to give you total peace of mind.

Our customers

We have a diverse range of customers, who all require specific standards and different engineering solutions. Our customers work within the Defence, Marine, Oil & Gas, Pharmaceutical and Industrial sectors. These include Total UK Ltd, Unipart Rail, Babcock Marine and the MoD.



Our transformer range

- **Single and three phase transformers**
- **Step up and step down transformers**
- **Air cooled transformers**
- **Liquid cooled transformers (oil immersed)**
- **Bespoke transformers**
- **Current transformers**
- **Auto-transformers**
- **Isolation transformers**
- **Earthing transformers**
- **Marine and offshore transformers**
- **Bushing transformers**
- **Harmonic current reduction transformers**
- **Military transformers (NSN)**
- **Zone 1 and Zone 2 hazardous areas transformers**
- **Ex d, Ex o, Ex e, Ex n, Ex m, Ex p, Ex i power transformers**
- **Transformer-rectifier units for D.C. power supplies**
- **Transformers maintenance Programmes**

Case Study 1

BAE Systems Ltd

We are the proud manufacturers of lighting transformers for the new Queen Elizabeth Class Aircraft Carriers for BAE Systems Ltd. The Queen Elizabeth Class aircraft carriers will be the biggest and most powerful surface warships ever constructed for the Royal Navy. This project required us to manufacture over 200 military style, enclosed transformers, ranging from 10KVA up to 60KVA. Our military style transformers are designed and manufactured to MoD standards and are shock tested by 'QinetiQ'.



BAE SYSTEMS

Case Study 2

Pilkington Glass

This project required our team to carry out a full on-site survey, of a 750kVA transformer. The survey highlighted that the transformer had had a catastrophic failure. Our team were tasked with removing the transformer from site, and rewinding the transformers on a short turnaround at our premises in Liverpool. Our team also advised the customer to install a backup transformer to ensure production would not be stopped in the future should a problem arise. Our fully trained electrical maintenance team, who specialise in the installation of transformers, returned to site to install the repaired transformer and also a new 750kVA backup transformer.



 **PILKINGTON**

www.rbaker.co.uk

Hazardous Area Products

Our dedicated in-house 'EX' product manufacturing team can design, manufacture, and supply an extensive range of ATEX certified products for use in gas and dust hazardous areas.

Transformers

Manufacturing transformers for hazardous areas.

Our engineering team have the design and engineering capabilities to be able to manufacture transformers to meet the requirements for zone 1 and zone 2 hazardous areas. This includes Ex d, Ex o, Ex e, Ex n, Ex m, Ex p, Ex i, which are flameproof and manufactured to BS EN 60079 with IECex & ATEX certification.

Having a diverse range of customers has given our team the experience of working in the Pharmaceutical, Offshore, Chemical and Petroleum sectors; offering bespoke solutions for zone 1 and zone 2 hazardous areas.



Control panel & Fuse boards

Custom built equipment for hazardous areas.

R Baker (Electrical) Ltd offers a range of custom built equipment suitable for hazardous areas including; junction boxes, starters, control panels and distribution boards that fulfil the requirements of European Standards EN 50014 and EN 50018 and are ATEX approved.



www.rbaker.co.uk

Motors & Pumps

A dedicated 24 hour motor management team service.

Service

We have over 33 years of experience in all aspects of electrical windings. Our motor management team offers a comprehensive maintenance and repair cover for all your electric motors and pump repairs. When a new motor or pump is required we are able to supply models from all the major manufacturers on very short lead times.

Repairs

Our extensive in-house repair facilities are available 24 hours a day and provide expert and efficient backup for our on-site work. We plan and run maintenance programmes with a wide range of national businesses. We repair AC and DC motors for the Rail, Nuclear, Universities and Chemical industries, all of which require a unique service. With our highly skilled technical team, we have the ability to meet these requirements by supporting your maintenance team.

Gear box overhaul and repair

Our mechanical team offer an overhaul and repair service for gearboxes. Each gearbox is repaired to the highest standard and in accordance with our ISO 9001:2008 company work instructions. All work carried out is documented and traceability is available upon request.

Installations

We compliment our outstanding manufacturing and repair service with a reliable electrical maintenance and on-site repair service, consisting of a wide range of electrical work including electrical installation and a 24 hour reactive maintenance inspection and testing.



Our range

- Rewinds of AC machines
- Rewinds of DC machines
- Armature winding
- Pump repairs
- Stators
- Field systems
- Armatures
- On-site services
- Inverter supply and repairs
- Comprehensive range of single phase and 3 phase induction motors



Wound Components

Our winding team are dedicated to meeting your specific winding requirements.

Service

Having diverse capabilities allows us to manufacture a wide range of ferrite, laminated and toroid transformers, coils, chokes, reactors and resistors. The quality and close attention given to our customer's requirements ensures that we offer the highest of quality standards. Our team will utilise machine or hand wind techniques, dependent upon configuration and quantity.

Coils

Our specialist team develop and manufacture innovative custom-designed coils that are used in a wide range of sectors; including Marine, Rail, Switchgear and specialist industries. We will also wind prototypes and small to medium production runs of bobbin or toroid type coils.

Chokes and inductors

We have an extensive design and manufacture team who offer a full range of inductors, filters and DC chokes. Inductor designs include conventional silicon steel cores as well as amorphous metal cores for lowest losses. Our facilities for toroidal winding and specialised equipment allow winding of heavy conductor material to cope with the high currents demanded by many modern applications. This powerful combination of manufacturing capability and design, testing and finishing, ensures a complete service to the customer.

Reactors

R Baker (Electrical) Ltd's reactors help keep your equipment running longer by absorbing many of the power line disturbances which otherwise damage or shut down your inverters, variable speed controllers, or other sensitive equipment. Working to your exacting standards, our team are here to help you find the best solution to fit your requirements.



Control and Distribution Panels

Over 33 years of expertise in the design and manufacture of electrical control and distribution panels.

Service

We are one of the leading control panel manufacturers, with a wealth of experience and applications in all industry sectors. Our design team undertakes a full site survey on every project where manufacturing allows the creation of equipment to suit your exact technical requirements and the environment in which it will be located.

Design

Working with the latest technology and software we are able to prepare a quotation to your specification documents or collaborate with you to agree a project brief. Our CAD design service will produce detailed, accurate plans and schematics using industry standard software applications to optimise designs of such things as cabling and lighting.

Bespoke Service

We offer bespoke panel building and can configure your panel and distribution boards to your exact requirement. If your need is for batch production of control panels for multiple units, we have a fully fitted control panel manufacturing workshop geared to cost effective small or large volume production.

Installations

We compliment our outstanding manufacturing and repair service with a reliable electrical maintenance and onsite repair service, consisting of a wide range of electrical work including the upgrading of control units and the installation of new panels.



Our highly skilled team use only high quality components from the industry leaders – Moeller, Allen-Bradley, Schneider etc. - with detailed attention paid to layout, build quality, cable numbering and documentation.

Onsite Services

R Baker (Electrical) Ltd has a reputation based on quality of work, competitive prices and accurate, honest advice.

Service

Our diverse capabilities offer our customers the comfort of working with a full service company; which can offer technical advice where others can't. Our fully certified electrical engineering team undertake projects across a wide range of sectors, including working in industries such as Oil & Gas where health and safety is at the heart of all activities.

Onsite Maintenance

Our team have worked in a variety of locations including commercial factories, offshore vessels and green site locations. Our fully trained electrical maintenance team are specialists in the installing, overhauling, cleaning and repairing of all electrical equipment; working to NICEIC standards.

R Baker (Electrical) Ltd aims to provide full turnkey solutions driven by in-house excellence, and the effective uses of our electrical manufacturing and repair service. Our electrical installation team guarantee to provide a cost effective and quality assured service, tailored to fully meet our customer's requirements.



Maintenance and repair services:

- **General electrical works**
- **Transformer installation**
- **Motor installation**
- **Power supply installation**
- **Fuse panel installation**
- **Control panel installation**
- **Overhaul of distribution transformers and AC/DC motors**
- **Electrical installation**
- **Remedial works & electrical fault finding**
- **Testing electrical equipment**
- **Onsite electrical maintenance programmes**
- **Single Phase 230V and 3 Phase 400V Systems**
- **Distribution board & earthing upgrades**
- **Transformer oil testing**
- **Additional lighting and power**

www.rbaker.co.uk

Other Products:

Linear motors | Fuse panels

AC/DC power supplies | Bespoke electrical work

Please see **www.rbaker.co.uk** for more details



R Baker (ELECTRICAL) Ltd.

Solution-led electrical and mechanical services

Evans Road, Speke, Liverpool L24 9PB

Tel: +44 (0)151 486 6760

Fax: +44 (0)151 448 1225

Email: mail@rbaker.co.uk

Twitter: @R_Baker_Elec

