Superior quality coils for high voltage motors, generators and traction motors delivered in days, not weeks
Superior quality coils for high voltage motors, generators and traction motors.

Accuracy that reduces winding times to best in class.
Preformed Windings has over 50 years of expertise in delivering superior quality coils for high voltage motors and generators as well as traction motors. The company was acquired by Clyde Blowers Capital in 2014 who has committed significant investment to grow the business.

We are the preferred supplier of coils globally to OEM’s and rewind shops from a wide range of industries, including power generation, water, transport and shipping. Preformed Windings promotes a culture of excellence throughout its business, ensuring our customers can rely on excellent customer service and industry leading quality. Preformed Windings believe in Speed, Quality and Service.

Our vast experience in international exportation sees us supply our range of products to a loyal and growing global customer base which includes OEMs, repairers and end users. Our dedicated and knowledgeable team are available 24/7 and ensure the very highest quality in production and delivery.

We provide innovative solutions and knowledge to fulfil all of our customer needs. Particular specialities include resin rich solutions, high voltage coils and hydro generator coils.

Working in partnership with our customers to inspire, educate and problem solve, while at all times considering environmental regulations and social responsibilities is one of our key strengths as a business.

With state of the art manufacturing facilities in Sheffield (UK) and Pell City, Alabama (USA), we have the capability to produce highly accurate coils, substantially improving winding time and extending life expectancy. We are highly experienced in working within short lead times, thereby minimising any down time. Preformed Windings can offer bespoke coil solutions for end users, repairers and OEMs anywhere in the world.

We aim to provide the highest quality product and service in the shortest lead times, every time.
**Product range**

Preformed Windings take great pride in the ability to supply high quality products at industry leading turnaround times every time.

Our aim is to provide a smooth and efficient service from start to finish. We have the ability to source copper from locally approved suppliers within hours of a clients request, whilst our state-of-the-art manufacturing facilities and highly skilled team ensure that all specific product requirements are met.

In addition, our full range of products are fully traceable throughout the manufacturing process. This means that we can maintain full control and keep clients informed as to production progress.

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**Diamond Coils**

We work with clients across a range of industries, covering everything from traction to power generation.

- For high voltage motor & generators
- 400-15,000V
- Resin & VPI insulation
- Film back / glass back
- Flexible, cured, hybrid, VPI, customer specifications

**Concentric & Hairpin Coils**

Custom concentric and hairpin coils for clients in the chemical, paper making, extraction, shipping and power generation industries.

- For high voltage motor & generators
- 400-15,000V
- Resin & VPI insulation
- Film back / glass back
- Flexible, cured, hybrid, customer specifications

**Armature Coils**

A broad range of custom armature coils for clients in the water, transport and power generation industries.

- For AC/DC traction motors
- Up to 3,000V
- Resin & VPI insulation
- Custom & hybrid specifications
We work to ensure that the completed coils are extremely robust and hard wearing.

- Resin & VPI insulation
  - Class F & Class G
- Purpose built shaping formers
- Copper, enamel and glass conductors
- Quick turnaround

Winding kits incorporating all essential materials for overhauling a broad range of electric motors. Winding kits include:

- All types of slot wedges
- Packing strips
- Insulation tape
- Thermistors
- HV cables

Niche engineering products with an excellent reputation

Producing highly accurate coils, substantially improving winding time and extending life expectancy

Preformed Windings can specifically design and manufacture replacement coils in the tight time-scales required to get customers’ motors and generators running again. Preformed Windings are able to assist customers to fully design and redesign.
Manufacturing Capability
Preformed Windings can provide replacement windings for almost all types of AC and DC application to end users, repairers and OEMs around the world. Customers can order coils with a choice of insulation systems to bespoke designs as well as standard NEMA, Hermetic and Hybrid / Combination designs. Insulation types available include resin rich and VPI ready coils with a broad selection of specialist insulating materials ranging from Mica/Film to Enamel/Dacron.

Speed of Response
Preformed Windings can manufacture replacement coils in the tight time-scales required to get your motor/generator working again. Working from datasheets, drawings or customer provided samples, Preformed Windings can manufacture both standard and bespoke windings with a fast turn around time. Our manufacturing facilities can provide all coil types at short notice. Winding kits can also be supplied incorporating all the essential materials required for rewinding a broad range of electric motors and generators.

Quality
As an ISO 9001 quality assured company, Preformed Windings ensure that quality comes as standard with all of our products and services. We are vastly experienced in many industry sectors and are approved for nuclear energy applications.

Our finished components are manufactured to ISO 9001:2015, ISO 14001:2015, BS EN 50209:1999 and ESI 44-5 standards, as well as to individual customer specification, whilst rigorous quality testing helps to consistently maintain standards.

When You Just Can’t Wait
Our rapid coil offering is a premium service. In most cases this can be provided to deliver coils in 5-10 days depending on the number of coils and complexity. We can also split the delivery to provide you with an initial set of coils to begin winding.

Quality and accuracy - stringent testing helps maintain demanding standards 100% of the time
Rigorous testing in accordance with international standards
Continued reliability - processes and schedules never compromised
Emergency response - For a quick turnaround we can supply coils in most instances in days rather than weeks
Recent investment in the UK and USA has created facilities ideally suited to ultra fast runs of precision.

**DE-REELER**

Our de-reeler rotates through 180 degrees and can carry multiple copper reels.

• Enables coil twist transpositions to be formed consistently and accurately

**FORMING**

We employ the latest forming machines which are fully computer controlled to produce repeatable shapes rapidly.

• Cuts coil forming time by up to 70% over alternative methods – particularly important for larger coil runs delivered quickly

• Stores coil shape in internal memory to allow future production of full or part sets of identical shape and size
A highly skilled workforce in our manufacturing facilities means you have a partner you can trust.

**TAPING**

We can manufacture coils with a range of insulation systems including Hot Pressed Resin Rich, Un-pressed Resin Rich and Vacuum Pressure Impregnation.

- Optimum insulation system for your machine

**PRESSING**

Utilising the latest pressing machines we can insulate and press to the tightest tolerances.

- Ensures best coil fit in the stator slot to give machine optimum performance
- Makes coil fitting up to 40% faster than inferior coils
- Increases coil life

**TESTING**

Extensive tests and checks form part of our quality assurance system which is strictly adhered to and regularly audited by our customers and the British Standards institute.

- Dimensional & fit checks
- Earth testing
- Tan Delta
- Inter-turn
- Partial discharge
Solving our customers problems...FAST

Our worldwide customers choose Preformed Windings for Speed, Quality and Service

Customer satisfaction

“...this may be the most uniform set of coils that I have ever seen. My winders told me it is a rare pleasure to wind with such a well-made set of coils. If you continue to make a product this outstanding, you are far above your competition.”

- Benny Beneux, Evans Enterprises
Our OEM sister company provides us with a full technical design capability

Coil upgrade expertise
Unlike many manufacturers that will simply copy previous coil designs resulting in similar machine performance, Preformed Windings are different. In many cases we will upgrade the coils used for the rewind. Using our collective experience and OEM sister company we can, where appropriate, modify designs as follows:

- Increased copper cross section – to improve heat transfer, reduce I2R loss and winding temperature, which ultimately improves motor efficiency
- Improved coil insulation materials – allows for better heat transference which can lead to enhanced machine performance
- Reduced coil drop – can make the coil easier and faster to fit and in some cases allow for diamond coils rather than more expensive bars to be used

In summary the coils used for your rewind will normally be superior to those being replaced.
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