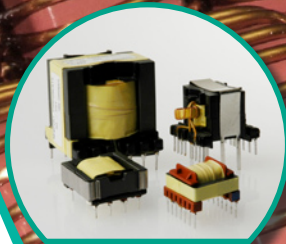




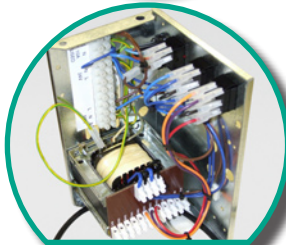
Components



Transformers



Inductors



Assemblies



Triple Insulated
Wire

INTRODUCTION

PACE COMPONENTS

POWER MAGNETICS

PACE

PACE COMPONENTS

Manufacturer of Wound Products
Including Transformers and Inductors

POWER MAGNETICS

Distributor of Components
to the Coil Winding Industry



Welcome to PACE



Company History

Power Magnetics was established in 1980 by Ernest Sturgess who, having previously worked for GEC, Fabritek and Philips, saw an opportunity to satisfy a need in the industry for supply and distribution of specialised ferrites and iron powder cores. A few years later **PACE Components** was established, originally as an offshoot of Power Magnetics, to service growing customer demand for high specification wound products. In 1989 the company was re-structured and Power Magnetics became a division of PACE Components.



In 2006 PACE Components acquired the Electronics Division of CTP Wipac and a number of key staff also made the transition to PACE at this time.

Over the years our operation has grown to cover the wide range of manufacturing facilities now offered.

Company Overview

PACE Components Ltd is the Parent Company and specialises in the manufacture of bespoke Mains and High Frequency transformers and inductors. Typically our products will be built into power supplies and used in many industry sectors, including Automotive, Military, Aerospace, Medical Equipment, Audio Equipment, Laser, White Goods and Industrial Air-Conditioning Systems. ●



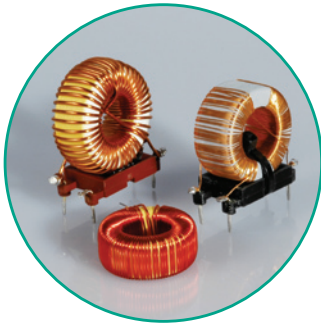
PACE employs some of the most experienced staff in the industry and this, combined with a programme of continuing equipment upgrade, allows us to offer our customers a level of service second to none, in terms of technical support and quality of manufactured product.

For further detail on the services that PACE Components can offer, please refer to the following section of this Brochure.....

Power Magnetics is a division of PACE Components and a distributor of components to the coil winding industry. A wide range of products is available, including an extensive selection of Ferrites, Iron Powder Cores and Nanocrystalline Cores, Bobbins, Clips, Mounts and Headers. We also stock most sizes and types of Furukawa Triple Insulated Winding Wire.

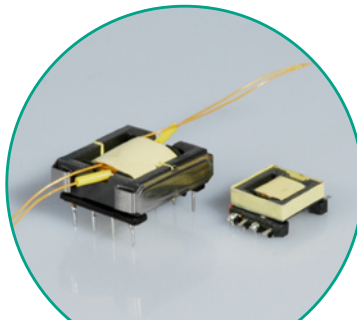
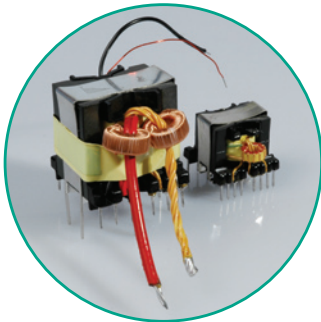
For more information on Power Magnetics products please refer to the final section of this brochure.....

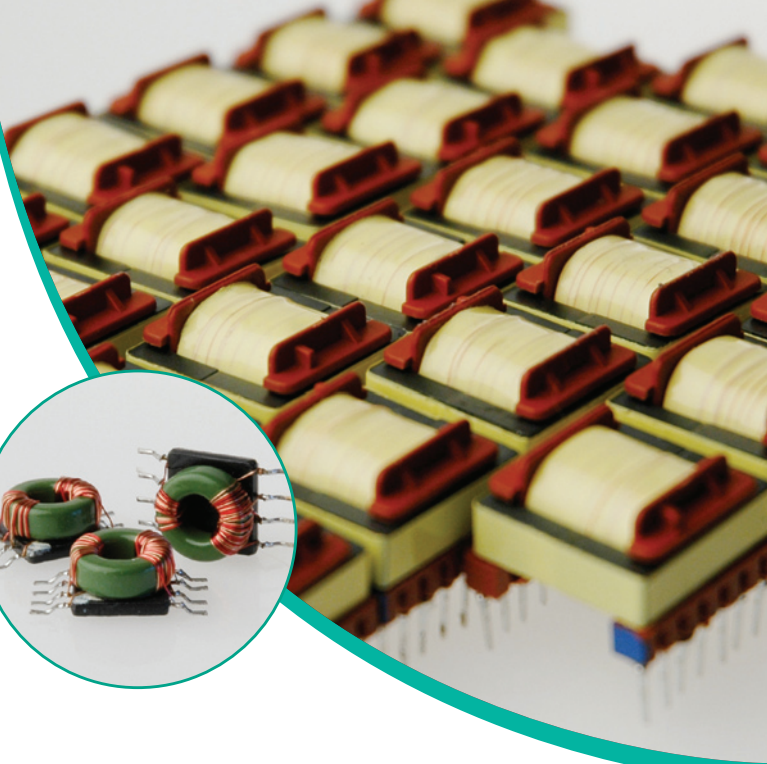
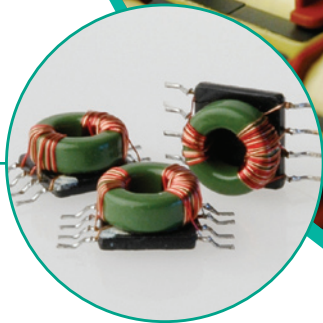
PACE Components



PACE Components can supply Transformers and Inductors based upon a large variety of different assembly types and suitable for a whole array of different application requirements. A selection of formats we commonly supply is as follows:-

- **RM Series:** We supply windings on the full range of RM assemblies
- **PQ Series:** We can supply windings on PQ cores. Typical sizes range from PQ 20x16 through to PQ 30x30
- **E cores:** We can offer windings on a large variety of core sizes and formats including C, EE, EF, EFD, EP & ETD) ●





- ● **Toroids:** The toroids we supply can be either hand wound or machine wound. We are able to supply single or multiple windings in either Common Mode or Differential Mode. Toroids can be left unmounted or mounted in a variety of ways to suit customer requirements.
- **Bobbin Cores:** We offer a range of general purpose inductors wound on ferrite bobbin cores in the size range 6x8mm up to 56x35mm. Typically 6x8mm to 12x15mm bobbins are available with axial or radial leads.
- **Rods:** We can also supply general purpose inductors wound on ferrite rods. Dependant on size these can be with or without axial leads.



PACE Components



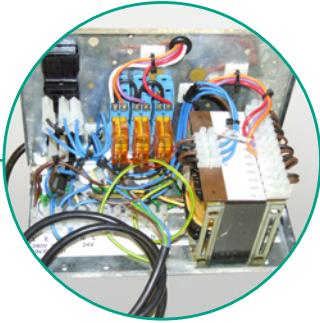
- **Laminated Mains Transformers:** We Manufacture Laminated Mains Transformers in both Imperial and Metric sizes up to 500VA.
- **Solenoid Coils:** We manufacture AC or DC solenoid coils to customer specification.
- **Panel Assemblies:** We offer point to point wiring, including supply of transformer where required, on small panels for industrial control units etc.

In fact, whatever your requirements, it is very likely that we can help you.

Equipment and Capability

We offer an in-house transformer design service, or we can manufacture to a customers own specification. Friendly advice is always available and if required, we will work with a customer to improve a design (for instance to cut costs by making more production efficient).

With a range of single and multi-spindle winding machines we can cater for most production volumes. ●



- We also have a selection of Jovil toroidal winding machines as well as a pneumatically powered hook winding facility for use with thicker wire gauges.

We have the capability to deal with wire diameters down to 0.05mm.

Coils can be dipped in enveloping varnish to increase protection of impregnated components from high humidity; We also offer vacuum and pressure varnish impregnation for high voltage components, solenoid coils and other applications where required.

Other equipment includes:

An automated 4-head programmable solder dip machine with turnover facility for increased soldering precision.

A range of automatic test equipment including the Voltech AT series 3500 and 3600.

PACE Power Magnetics



Power Magnetics is a specialist distributor to the coil-winding industry throughout the UK and Europe, with a comprehensive range of components at competitive prices.

We are agents and distributors for **Micrometals, Hitachi, Lodestone, Plasmatex, Magnetec, Cosmo, Tomita, Furukawa** and **NORWE** amongst others. We are stockists of Iron Powder Cores, Nanocrystalline Cores, and many types of ferrite, including E, ETD, RM, PQ, U, Toroidal, Rod and Bobbin Core types.

We also offer an in-house gapping facility for ferrite cores supplied by Power Magnetics.



Power Magnetics are stockists of the Furukawa range of triple insulated (Tex) winding wire and offer a de-reeling facility for customers who only require a small amount of wire.

Technical support and advice is offered as an integral part of our service.



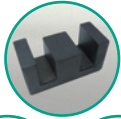
FURUKAWA



Hitachi Metals America, Ltd.
Materials MagC



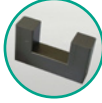
Extensive Range of Ferrites



E Cores



ETD Cores



U Cores



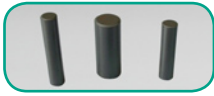
PQ Cores



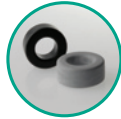
RM Cores



Drum Cores



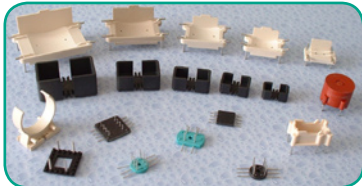
Rods



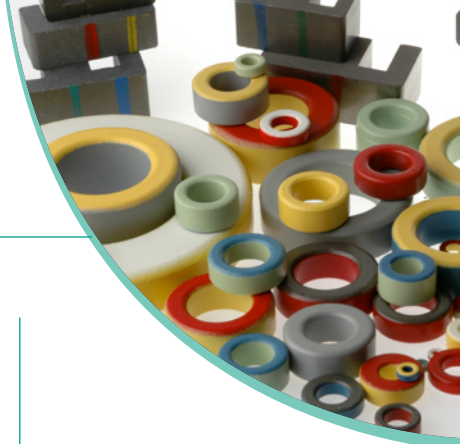
And others...

Mounts & Headers

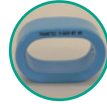
Large Range of Mounts and Headers



KM • VTM • STM • VTB • VTC • TM
TR • TS • L • Others.....



Micrometals Iron Powder Cores



We supply Magnetec Nanocrystalline Cores



Extensive Range of Micrometals Iron Powder Cores available Ex-stock

Bobbins & Clips



Large Range of Bobbins and Clips available Ex-stock



E PQ
ETD RM

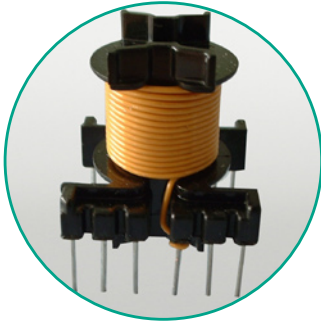
Tex-E (Furukawa)



Almost all available sizes of Furukawa Triple Insulated (Tex-E) Wire Held Ex-stock
Tex-E Tex Elz Tex-FS
Tex FWX-E Tex FSX-E

More details on Tex wire on the next page.

Furukawa Tex Wire



Furukawa triple insulated wire meets all the leading international safety codes and enables transformers to be manufactured to meet safety isolation standards without the need for margins and tape barriers.

The main Triple insulated wire types available are:

Tex-E – This is single strand, wire temperature rated to 120°C and available in sizes from 0.2mm to 1mm

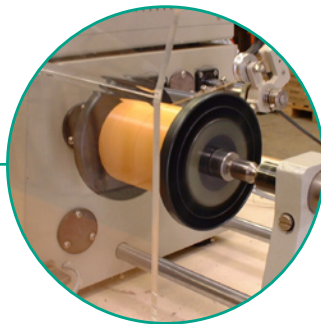
Tex-Elz – Temperature rated to 120°C, this is 7-stranded wire and is available in sizes from 7x0.08mm to 7x0.3mm.

Tex-B – Single strand and temperature rated to 130°C, Tex-B is available in sizes from 0.2mm to 1mm.

Tex-BS – The successor to Tex-B, with improved solderability and easier to strip back than Tex-B (sizes as per Tex-B)

Tex-F - Single strand wire, temperature rated to 155°C, Tex-F is available in sizes from 0.2mm to 1mm.

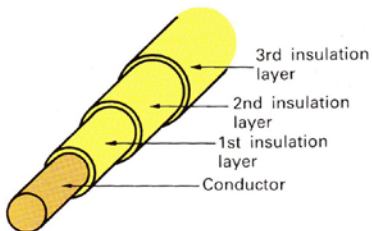
Tex-FS – The successor to Tex-F, with improved solderability and melt-back. Tex-FS has been approved by UL and VDE for IEC 60601-1 (Medical Electrical Equipment) Working Voltage is 250V rms (sizes as per Tex F).



● **Other available wires (Not Triple Insulated):**

Tex- FSX-E – Offers basic – single layer insulation and is designed for TNV circuit devices (Temperature rated to 120°C and available in sizes from 0.11mm to 0.15mm)

Tex- FWX-E – Offers supplementary- double layer insulation and is designed for TNV circuit devices (Temperature rated to 120°C and available in sizes from 0.11mm to 0.19mm)



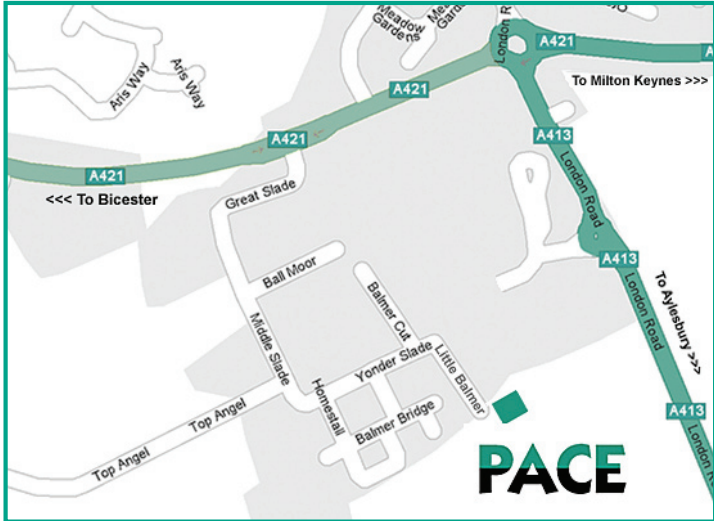
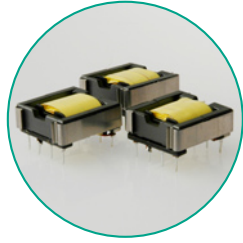
Standard Type TEX-E Construction

Use of triple insulated wire allows increased winding space which permits smaller transformers to be designed and can reduce manufacturing time and cost.

We have been distributors of Furukawa Tex- wire since its introduction and hold stock of most available sizes of wire.

We offer a de-reeling facility for small quantities of wire (from 100m upwards).

Samples and full technical support are available upon request.



PACE

COMPONENTS

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PACE

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