

## Transformers, Chokes & Coils – Custom crafted to perfection



### Design

XCEL Power Systems design and manufacture an extensive range of chokes, coils, and transformers. We have built up a reputation second to none for excellence of service and quality of product. Our service starts with the establishment of a close working relationship with the Customer. Customer requirements are analysed, and recommendations made concerning possible modifications or alterations to initial designs, in order to optimise the selection of raw materials for particular applications. The Company's policy – for long or short production runs – is always to use only the very best quality materials available from its approved suppliers.

of  
de  
ed  
st  
vr  
y

### Manufacture

Once the specifications are agreed, XCEL Power Systems has the resources to manufacture to the highest technical standards. Our equipment list includes conventional, toroidals, pull-winding and programmable Tanaka machines – giving us the capability to wind a full diversity of materials on to components of all shapes and sizes. Customers are involved throughout the manufacturing process, and have access to computerised records for complete traceability. The manufacturing and quality control procedures meet BS EN ISO 9001 approval



### Material Selection

XCEL Power Systems uses only the very best materials at every stage of the Manufacturing Process. Extensive stocks of premium grade wire, soft copper strip, soft copper foil, sleeving and insulation materials are maintained on site. Where parts are specified by a Customer, we are able to draw on our extensive knowledge of the market to ensure that the required materials are ordered from the foremost supplier in that particular field.

### Testing

100% Inspection Procedures are undertaken, and special test rigs manufactured for long production runs or at the Customer's request. All wound components are tested for inductance at frequencies between 20Hz & 300kHz, with or without DC bias. Stringent quality controls enable Customers to be confident that comprehensive, 100% inspection and testing procedures have already been effected prior to despatch. Other tests for: Insulation Breakdown, Dielectric Strength, Number of Turns on each coil, Turns Ratio on Transformers, Phase between Windings, Q Factor. All equipment used for test and measurement is calibrated in accordance with National Standards.

