



# Coil Manufacture

**Quartzcoil is recognised as a world leader in the supply of electrical windings for a wide range of AC/DC applications.**

Part of the Quartzelec Group of Companies, Quartzcoil produces windings to the highest possible quality, using highly efficient manufacturing processes, equipment and materials and has earned an enviable reputation in supplying both manufacturing and service industries with an infinite variety of LV and HV coils.

These insulation systems, manufacturing processes and testing procedures have been instrumental in setting industry standards, ensuring that quality is an intrinsic feature of the product.

Working with equipment designed to operate under extreme conditions e.g. military and nuclear applications, has afforded Quartzcoil a wealth of experience, knowledge and an extensive skills base offering innovative solutions to all winding problems.

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## Our Range

- AC stator bars 2 poles up to 70 pole (at present), 100 – 18000V
- AC stator coils, all formats, 100 – 16000V
- AC field coils, salient pole strip on edge, 2 pole turbo generator
- DC mainpole, compoles and compensating windings
- DC coils and bars 100 -2500V
- Rotor Bars
- Specialist Coils
- Diamond Coils

## Insulation Specification

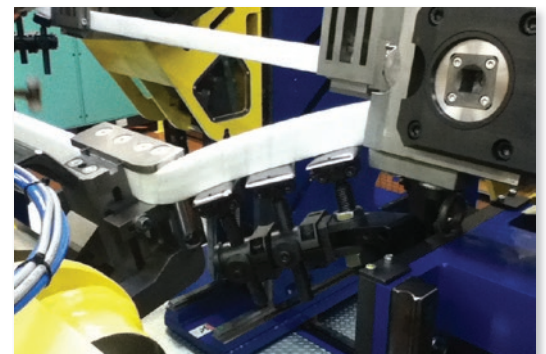
- Resin Rich or VPI insulation systems (from 200V DC to 18kV AC)
- Class F and H temperature rise
- Designs available to withstand NEMA
- Stator bars up to 410MW with insulated section 40mm x 140mm



## Testing

Quartzcoil provides additional peace of mind ensuring all coils are manufactured to the very latest international standards, also meeting customers specific requirements.

- Impulse interturn: testing to EN 60034-15
- Tan Delta: testing to BS EN 60034-27-3
- Partial Discharge: testing to BS EN 60270
- Thermal cycle: testing to IEEE 1310
- Voltage Endurance: testing to IEEE 1553-2002 / IEEE 1043
- High Voltage withstand BS EN 60034-1



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