



FOR FURTHER INFORMATION
ABOUT HOW WE CAN HELP YOU, PLEASE CONTACT:

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A PARTNERSHIP OF ELECTRICAL MACHINE DESIGN SPECIALISTS

Two complementary specialist companies working
together to provide state-of-the-art complete designs
for electrical machines

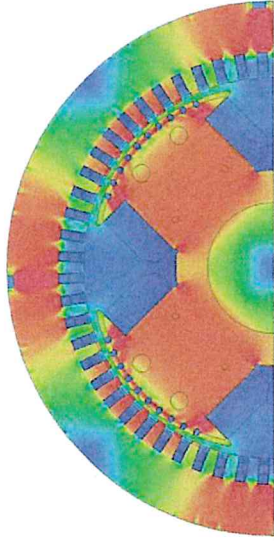
Located in Germany and UK, we are two electrical machines design companies, combining to
provide electrical machine design services.

OUR OFFERINGS

We offer full electrical machine design, from the concept stage to a full set of technical drawings and manufacturing documents

We also offer modifications and improvements to existing electrical machine product ranges

Capital letter



We are experienced in:

- Synchronous machines
- Induction machines, including Doubly Fed Induction Generators (DFIG)
- Permanent Magnet machines

Specific design expertise include:

- High Efficiency designs up to 98.2% (10MW)
- Thermal management solutions for increased power density, reduced costs and increased product lifetime
- Design optimisation for technical specifications: cost, weight and manufacturability
- Robust vibration proven designs: up to 30 year lifetime
- Modular approach
- Validation plans & test data evaluation for mechanical, electrical and thermal performance
- Root cause analysis – failure investigation

Our highly skilled engineers work closely with customers to deliver designs according to set specification

OUR EXPERIENCE

Why work with us?

- A complete package: Electromagnetic Design, Mechanical Design, Thermal Design & Manufacturing engineering
- Extensive application experience: Marine, stationary power plant, industrial, oil/gas offshore, hydro, wind
- Machine designs with world best efficiency (98.2% at 10MW)
- Robust designs withstanding high vibration levels – e.g. driven by gas / diesel engines for up to 30 year lifetime
- Modular approach, integrated product design and serial product knowledge: parts reduced by 75%
- Comprehensive validation program using in depth Multiphysics FEA simulations to prove detailed test data
- Advanced modelling software, customised for electrical machine analysis

LE gap

Our experiences

- Pool of specialists with more than 150 years of combined experience in Electrical Machine Design: Electromagnetic, Mechanical, Thermal & Manufacturing
 - Extensive experience cutting across industry and academia
 - Experience working with companies including Siemens, AvK, Electroputere, Cummins and University of Nottingham Electrical Machines Department
 - R&D experiences of conventional and novel electrical machines, including simulation and implementation of novel thermal solutions
 - 5 commercial products developed - from concept via prototype to serial production
- ✓ Up to 20MW; 400V – 15kV
 - ✓ 500rpm – 1800rpm
 - ✓ Up to 80 tons
- International customer base

