



Thomas Keating Ltd

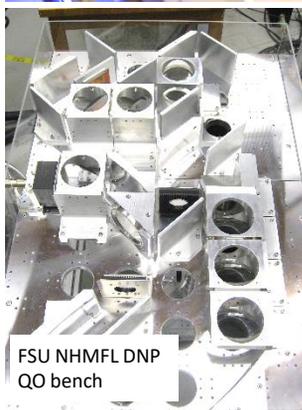
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HiPER spectrometer



Stuttgart ESR spectrometer



FSU NHMFL DNP QO bench



LHe and dry detector systems

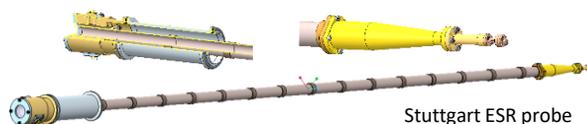
Quasi-optical ESR bridges and probes

For over 20 years TK has been working with leading experimental scientists to design and build high field EPR and DNP bridges.

Predominately working at W-band and above, and drawing upon expertise at the University of St Andrews, we have installations in universities and national labs around the world.

Examples of our systems and products are shown here, including low loss quasi-optics and HE11 probes, and cooled broad-band detector technologies.

Our customers include groups at CNRS Grenoble, St Andrews, Stuttgart, EPFL Lausanne, Heidelberg, Pisa, Saclay, Nottingham, Warwick, Mulheim, Berlin Frankfurt, MIT, NHMFL, Cornell, Yale, UF Gainesville, Northeastern, Northwestern, John Hopkins, PNNL, UCSB and Weizmann Institute of Science.



Stuttgart ESR probe

ESR bridges

TK and QMC manufacture quasi-optical QO benches, free-space isolators, refocussing mirrors, feed horns, corrugated waveguides and tapers, wire grid polarisers, RF absorber loads, lenses, free-space filters and detector systems. We regularly collaborate with Virginia Diodes Inc. who supply other detectors and sources.

ESR probes

Based on HE11 corrugated circular German/nickel silver waveguides with cryostat heads and corrugated tapers, these are used to provide efficient transmission along magnet bores and through cryostats.

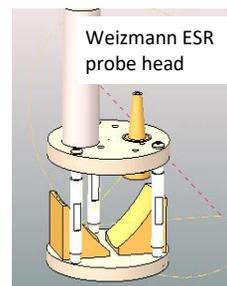
Detector systems

Our sister company QMC Instruments offers a range of high-sensitivity ($1 \text{ pW/Hz}^{1/2}$) detectors that operate at 4 K and below, including systems packaged with our own cryostats, optics, filters and amplifiers.

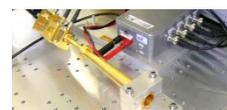
- Superconducting bolometer
- InSb HEB (hot electron bolometer)
- Magnetically enhanced InSb HEB
- Doped germanium photoconductor



Weizmann ESR probe head mirrors



Weizmann ESR probe head



Ultra-Gaussian feed horn & VDI multipliers



Corrugated waveguide with mitre bend



Cryostat and bolometer



InSb hot electron bolometer

For more information please contact us by e-mail or using the details at the top of this page.
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