

PRESS INFORMATION

From TMD Technologies Ltd – now part of Communications & Power Industries

*Preview for:
UK National Quantum Technologies Showcase
Business Design Centre, London
5 November 2021*

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TMD exhibits its new gMOT compact portable cold atom system on Stand 25 at the UK National Quantum Technologies Showcase

TMD Technologies Limited (TMD – now part of Communications & Power Industries LLC (CPI)) - a leading west London-based manufacturer in the microwave and radio frequency (RF) field, will again be participating in the upcoming UK National Quantum Technologies Showcase in London, where it will be exhibiting its gMOT compact portable cold atom system. TMD will also have staff available at the showcase to discuss vacuum-based and alkali metal filled systems.

“Attendees at the show will be given unrivalled insight into quantum capabilities that are close to real-life uses of the technology,” said Richard Patrick, head of business development at TMD. “TMD have been attending this main event in the UK quantum calendar for a number of years and are privileged to support once again. Our team is looking forward to meeting both current and new partners and associates in this exciting field.”

Since the inception of the UK’s National Quantum Technologies Programme, TMD has been heavily involved in the development of key underlying technologies aimed at allowing the commercialisation of products based on quantum effects.

gMOT – a ‘world’s first’

TMD’s gMOT is the world’s first portable grating magneto-optical trap (gMOT) for compact atomic clocks, inertial sensors, magnetometers, RF field sensing and gravimeters.





The gMOT – another TMD cutting-edge product.

The portable gMOT was conceived and designed by TMD's Applied Science team in close working association with its academic and scientific partners at the University of Strathclyde, University of Glasgow and Kelvin Nanotechnology Limited. It was built and tested at TMD's manufacturing and design facility in Hayes, west London.

Atomic clocks are now an important facet of people's everyday lives in the fast-expanding quantum world. They have the potential to provide a valuable alternative and back-up to GNSS (Global Navigation Satellite Systems) – used as either stand-alone timing solutions on a platform or as 'hold-over' clocks should the GNSS signal become unavailable, unreliable or degraded.

National Quantum Technologies Programme

The National Quantum Technologies Programme is a UK government initiative involving investment in excess of £600m over 10 years and aimed at accelerating the translation of quantum technologies into the marketplace. The programme supports investment in research, innovation and technology demonstration to help UK industry to commercialise these new technologies.

TMD at the show

TMD will have engineering personnel available to meet with customers at the show.

For more information, please contact TMD UK at wecare@tmd.co.uk or TMD US at info@tmdus.com.

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About Communications & Power Industries

Communications & Power Industries (CPI) is a global manufacturer of electronic components and subsystems focused primarily on communications and defence markets. With a heritage of technological excellence that spans decades, CPI develops, manufactures, and globally distributes innovative and reliable technology solutions used in the generation, amplification, transmission and reception of microwave signals for commercial and military applications. Learn more about CPI at www.cpii.com.

TMD Technologies Limited – the leaders in scientific and technical microwave and RF innovation



TMD's headquarters design and manufacturing facility in West London, UK.

With a heritage dating back to the 1940s, TMD Technologies Limited (TMD) is a world-class designer and manufacturer of professional microwave and RF products. At the company headquarters in Hayes, West London it produces specialised transmitters, amplifiers, microwave power modules (MPMs), high voltage power supplies, microwave tubes and transponders for radar, EW and communications applications. A previous twice Queen's Award winner, it also produces a range of advanced instrumentation microwave amplifiers for EMC testing, scientific and medical applications.

TMD is also making on-going and substantial investment in the development of quantum-enabled technology under the UK National Quantum Technologies Programme (UK-NQTP).

Recently, TMD has expanded their investment in the Solid-State Power Amplifier MPM space through a partnership with Diamond Microwave LTD, and now has

SSPA MPMs available with various output power options from UHF through Ku band.

TMD Technologies, LLC, USA



Leader in scientific, professional microwave and high-power RF innovation

TMD Technologies, LLC is the US subsidiary of TMD Technologies Limited. Based in Baltimore, Maryland, it provides complete technical and commercial support to TMD's customers in the USA and offers a comprehensive product repair centre.

The Sales and Business Development team is engaged with promoting the whole range of TMD's products, as well as identifying new business development opportunities in the United States.

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