



MPE
Quality, Reliability, Performance

Company Bulletin

for EMC, EMP & TEMPEST Protection

Issue 4

MPE PEOPLE

MPE Customer Satisfaction Survey

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[Click for more details](#)



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MPE TECHNOLOGY

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MPE DISTRIBUTOR NEWS

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MPE APPLICATIONS

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FAST FACTS ON MPE LTD

- MPE has traded since 1925 and employs over 50 people.
- MPE has designed, manufactured and shipped in excess of 8,000,000 high-performance EMC, EMP and TEMPEST filters and feedthrough capacitors in the last 30 years.
- Many products have been in service for more than 20 years with undiminished performance.
- MPE has a portfolio of over 20,000 custom product designs to meet all possible requirements.
- The MPE factory at Knowsley, Liverpool, is certified to the quality standard ISO 9001:2015, and its products meet all applicable defence standards.



For comprehensive information about MPE's products and services, contact the Sales and Marketing Department, MPE Ltd, Hammond Road, Knowsley Industrial Park, Liverpool, L33 7UL, U.K. Tel +44 (0)151 632 9100. Fax +44 (0)151 632 9112.

Email sales@mpe.co.uk. Website www.mpe.co.uk

If you have a friend or colleague who you think might find the MPE Company Bulletin informative, then why not forward it to them?

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Shown on the left here receiving his prize of a Kindle Fire 7in 8GB HD tablet, the proud winner of the draw for all those who entered MPE's Customer Satisfaction Survey is Kelvin Smith. He is Air Sites Engineer at SCIDA Ajilon Consulting, RAF Brize Norton, Oxfordshire, UK, where the presentation is being made by John Jephcott, Key Account Manager of MPE Ltd.

MPE Customer Satisfaction Survey

MPE recently conducted a Customer Satisfaction Survey of a randomly selected number of customers, comprising both frequent and infrequent buyers, based in the UK and overseas. The individuals included were those who purchase, specify, recommend, install or use MPE products, and the Survey returns rate was 23%.

Each completed response was entered into a draw, with the delighted winner – Kelvin Smith, Air Sites Engineer at SCIDA Ajilon Consulting – receiving a prize of a Kindle Fire 7in 8GB HD tablet.

In detail, customers were asked to rate MPE from 1 to 6 against each question, 1 being very poor and 6 being excellent.

Staff

MPE scored highly in all areas relating to staff – availability, knowledge and friendliness – with all but 3 scores above a 4 and none below a 3.

One unprompted customer comment read: *"MPE has the best staff and is willing to think outside of the box."* Another remark was: *"You have maintained a very good relationship."* Indeed 82% of customers felt that their business relationship with MPE had improved during the last two years.

Provision of information

MPE also scored excellently on its provision of information to customers and end-users. Here 80% rated MPE as a 5 or 6. One comment read: *"MPE provides more information than all other vendors."* Another read: *"As always, very prompt with quotes and requests to resolve installation queries."*

Product performance

MPE scored very well indeed on product performance. A comment typical of many was: *"Engineering performance excellent."*

Product reliability

MPE achieved very high marks on product reliability. 86% of customers rated MPE at 5 or 6. Customers' statements included: *"We have the utmost respect for them and their filters"* and *"MPE filters never fail to deliver."*

The three areas with the room for most improvement were identified as:

Increased feedback on new product developments

One comment noted: *"We don't receive enough feedback on*



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what is being developed at the factory."

Product lead-times

Product lead-times – 57% of customers scored MPE's lead-times at 4 or above, yet 43% scored them as 3 or below.

Pricing

Overall price – 85% of customers stated that MPE gave value-for-money, and almost 60% of customers thought MPE provided a good price in comparison to competition. However, 45% of responses marked overall price at 3 or below.

Accordingly, MPE has now commenced actions to improve in those three areas with room for most improvement and will report back on progress in all of them over the coming months.



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John Bayliss

Spotlight on John Bayliss

John Bayliss has been the Finance Manager of MPE Ltd since joining the company in January 2012, after gaining wide experience in accountancy positions at five previous firms.

At MPE John heads up all accounting functions, preparing month-end management accounts. He reports direct to Managing Director David Seabury, and his day-to-day tasks include overseeing the settlement of all invoices, collection of payments due, and calculating the costs of materials and manufacturing time. He also assists with IT systems work and recently led the office expansion and regeneration project opened by the Mayor of the Borough of Knowsley.

His previous position from April 2008 to December 2011 was as Management Accountant at Archer Daniels Midland, a global US food processing and commodity trading corporation. Before that John was Project Accountant from April 2007 to March 2008 at United Biscuits, where he was responsible for day-to-day production accounting over 15 different departments across all product lines, such as McVitie's sweet and Jacob's savoury biscuits.

Prior to this he was Finance Manager for 12 months starting in March 2006 at the Liverpool headquarters of the discount department store chain TJ Hughes and, from August 2003 to February 2006, Assistant Accountant at Cains of Liverpool, a famous local real ale brewery.

He achieved his BA degree in Business and Finance at Liverpool John Moores University. From 1999 on, John Bayliss has been a member of the Association of Accounting Technicians (www.aat.org.uk), a professional body based in the City of London. His qualifications for membership were earned at the City of Liverpool College.

John lives in the north Liverpool suburb of West Derby with a partner and two small children, a daughter and son. His other passion is Liverpool Football Club: he has been a season ticket holder there for 29 years and has followed his team avidly across Europe. In his teens he played sport competitively too, as a ranked squash player.



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New electronic press ideal for MPE's expanding ranges with larger size TEMPEST & HEMP filters

MPE's latest purchase is a Safan E-Brake servo-electronic press brake for its Fabrication Department. This new type of press is powered by servo-electronically driven belts and eliminates the need for hydraulic oil. The new E-Brake gives MPE an increased folding capacity to 3.1 metres and 100 tons. Its modular design enables full use of the bed together with increased bending speeds of around 30%. Meanwhile its energy-efficient properties offer 50% power usage savings with reduced servicing costs.



To power the machine's six axes, the new press features SafanDarley 2D E-Control, which provides a 2D simulation of the bending process along with off-line programming capabilities, amongst other significant technical advantages. This coupled with a major expansion in capacity will enable the company to produce a much greater range of metalwork – of larger physical size and greater thickness – in-house. This expansion also sees the company ready to produce its new and expanding ranges such as large-size TEMPEST and HEMP filters.

All these factors enable better precision, versatility and increased capacity for new business, both within MPE's own field and make it possible to diversify into new business areas.

The new machine was installed in July 2014 across a five-day period which also saw 5S improvements carried out in the same area. The new Safan machine has now been fully operational for three months.





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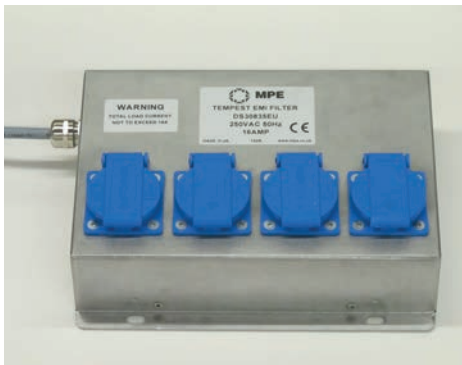
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Now available from MPE – European variants of plug-in TEMPEST filters for your IT systems

MPE has now launched European variants to its range of convenient, plug-in TEMPEST filters in 1-, 2- and 4-socket and inline versions that protect your IT systems from covert interrogation.

To maximise information security, countermeasures for TEMPEST – often regarded as an acronym for “Transient ElectroMagnetic Pulse Emanation Standard” – are aimed at preventing eavesdropping on data radiated as signals via conducting lines (such as power, telephone or control line cables).



Fully compliant with NATO SDIP-27 Levels B and C, MPE's 250V AC, 50/60Hz, pluggable TEMPEST filters cater for 6A, 16A and 32A currents. MPE's new European TEMPEST filters are designed to the IT equipment safety standard EN 60950-1. Requiring no electrical contractors for their installation, these filters could therefore not be quicker, easier or simpler to deploy or move about to meet an immediate need, without permanent mounting of any sort.

The 6A and 16A models feature CEE 7/4 Schuko pin plug input & socket outlets. The 32A filter comes as standard with an IEC 60309 Commando connector input and CEE 7/4 Schuko socket outlets. Alternatively terminated filters, such as 3-pin BS 1363, IEC, Powercon, etc, are easily supplied upon request.



The units provide EMI suppression across the full frequency spectrum. Accordingly they meet the TEMPEST protection standards applied to individual pieces of equipment of 60dB insertion loss performance over frequencies from 100kHz to 1GHz.

What is more, the new units, in smart and durable stainless steel enclosures, are significantly smaller and lighter than traditional TEMPEST filters. All components are manufactured by MPE in Liverpool under an ISO 9001 quality regime. There has been a zero failure rate on the many hundreds of MPE TEMPEST filters currently in service around the world, so that complete reliability over long service is their hallmark.

Furthermore MPE has now also developed a range for South Korea, and units have been sold widely into both Turkey and Korea.

See the attached [datasheet](#) and [Installation and Maintenance Guide](#) for the new European pluggable TEMPEST range from MPE.

Download [here](#) the Product Overview for both the standard and European ranges of MPE's TEMPEST pluggable filters

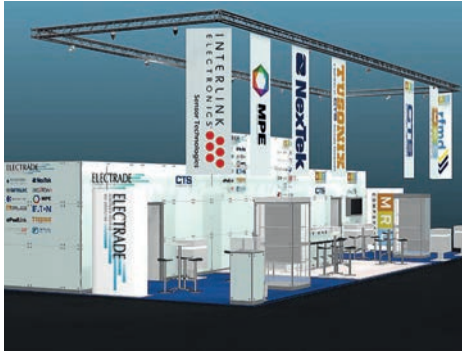


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MPE joins forces with Electrade at Electronica 2014 in Munich

Electronica 2014, the 26th international trade fair for electronics components, systems and applications, runs from 11th to 14th November at the Munich Exhibition Centre. This year MPE will be co-exhibiting with its German distributor Electrade GmbH on a much larger stand than in previous years, 18m long x 7m deep and open on three sides.

The Stand 355 in Hall B5 incorporates private meeting rooms and refreshment facilities ideal for hosting distributor and customer meetings alike.

MPE will be displaying a broad spectrum of product samples, ranging from feedthrough capacitors to equipment, military vehicle and powerline filters to HEMP protection units. MPE will also be showcasing its recently developed European range of TEMPEST pluggable filters, along with the innovative range of Amphenol Rhino connectors with integral MPE EMC suppression.

Paul Currie and John Jephcott of MPE are your contacts on the Stand for the whole week and warmly welcome you to stop by for a chat about the EMC solutions most relevant to your company's applications.

www.electronica.de/en/home/visitor



electronica 2014

inside tomorrow

Visit MPE on Electrade Stand 355 in Hall B5



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Frank van Asperdt, Managing Director of Accelonix BV, puts his signature to MPE's distributor contract.



Here are members of the Accelonix team at Eindhoven, from left to right: Kim Meijs – Service & Support, René van den Hoek – Service & Support Manager, Egbert Polak – Service & Support, Bart Overeem – Sales, Luc De Bus – Sales, Frank van Asperdt – Managing Director.

MPE appoints new distributor for the growing Dutch market

MPE has appointed Accelonix BV as its new distributor covering the Netherlands for both standard and customised products. Accelonix has previously supplied MPE products for specific project applications, but this appointment further extends the Accelonix portfolio.

Established in 1985 under the name of Comtest Instrumentation BV, Accelonix started as a distributor of test and measurement solutions for EMC and RF and rapidly became a market-leader in that field. Today the Accelonix product range covers everything required for pre- or full compliant testing as well as filter and antenna solutions. Over the years Accelonix has delivered many turnkey solutions for accredited test laboratories as well as for automotive, defence and other applications.

Paul Currie, Sales & Marketing Director of MPE Ltd, explains: "MPE has previously supplied many filter products into the Netherlands, but these have been on a specific, project-by-project basis. There are definitely more requirements which MPE can address in this region and, to target these, a distribution presence has become necessary. Having previously worked with Accelonix, MPE is confident that the company has the right mix of sales coverage and technical competence to fulfil these market needs."

Frank van Asperdt, Managing Director of Accelonix BV, remarks: "Accelonix has a reputation of working with world-class partners and suppliers. Quality and reliability are very important to us in everything that we do. MPE is therefore an excellent addition, not only with its high-performance, high-reliability filter and capacitor ranges but also with its flexibility to meet the demands which customers place on us."

So, for further details of Accelonix's products and services, contact Frank van Asperdt, Managing Director, Accelonix BV, Croy 7F, NL-5653 LC Eindhoven, The Netherlands. Tel +31 (0)40.750.1650, fax +31 (0)40.293.0722, email info@accelonix.nl, web www.accelonix.nl

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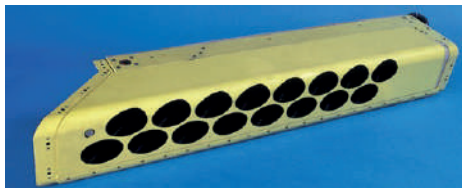
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MPE's EMC solutions to keep the Eurofighter safe during combat missions

From the start of the prestigious multinational European military program Eurofighter, MPE has supplied many thousands of EMC filters for the Eurofighter Typhoon aircraft.

The Typhoon was introduced into operational service in 2003. Currently, the type has entered service with the Royal Air Force as well as the Austrian, German, Italian, Royal Saudi and Spanish Air Forces. The Royal Air Force of Oman has also been confirmed as an export customer, bringing the procurement total to 571 aircraft as of 2013.



The chaff and flare dispenser mounted beneath the Eurofighter Typhoon aircraft

Supplied through MPE's Italian distributor Ampere SpA of Milan (www.amperespa.it), MPE's custom ceramic capacitors are incorporated into the control mechanism of the dispenser located below the fuselage for countermeasure chaff and flare decoys. MPE's filters are specified to provide this device with the highest level of electromagnetic interference protection, putting a stop to electrical noise disturbance from the actuator.

Chaff and flare countermeasures are designed to neutralise threats from infrared- and radar-guided missiles, distracting them from their targets during combat missions. The aim of flares with burning temperature equal to or hotter than engine exhaust is to make the infrared-guided missile seek out the thermal signature of the flare rather than the aircraft's engines.

Meanwhile the chaff dispense system will spread a cloud of particles of aluminium or metallised glass fibre, which either appear as a cluster of secondary targets on radar screens or swamp the screens with multiple returns.

Cobham plc in the UK is the design authority for the Eurofighter Typhoon's defensive chaff and flare countermeasure systems.

www.armedforces.co.uk/raf/listings/I0028.html



Strumentazione e Sistemi



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EMC protection on the Foxhound LPPV

MPE is supplying two different EMC protection filters for the British Army's Foxhound light protected patrol vehicle (LPPV), designed and built in the UK to support the Ministry of Defence's current operations.

Incorporating individually filtered lines and self-healing feedthrough capacitors, these high-reliability, high-performance products are custom solutions to suit their applications, initially derived from MPE's standard product range for military vehicles. They comprise a 52A, three-line filter for the compressor pump motor and a 7A, four-line filter for the windscreen wiper motor.



The latter provides an integrated solution which assists the wiper motor in complying with the stringent EMI/RFI suppression requirements of DEF STAN 59-411 Land Class A. MPE's customer in this case, the Worcester-based company Britax PSV Wypers Ltd, designed and supplied the windscreen wiper system (www.psv-wypers.com).

The 7.5t, mine-protected Foxhound features a V-shaped hull, which provides maximum protection to the crew. The hull, running the entire length of the vehicle, also includes the driveline, main fuel tank, generator, batteries and power pack. The Foxhound affords better flexibility and protection against IEDs, mines and roadside bombs than other light patrol vehicles and so replaced the British Army's Snatch Land Rover in the theatre of war in Afghanistan.

Key features such as speed, flexibility, ease of maintenance and armouring are similar to that of the Mastiff. At a maximum payload of 2,000kg, the highly versatile Foxhound can reach a maximum speed of 110km/h, and its GVW is 7,500kg. The vehicle is 5.3m long x 2.3m high x 2.1m wide, whilst the four-wheel steering provides it with a turning circle of 12m. The Ministry of Defence chose the name Foxhound to bring it into line with its other protected wheeled vehicles such as the Mastiff, Ridgeback and Wolfhound, all of which again feature feedthrough and military vehicle filters from MPE.