

MPE

Quality, Reliability, Performance

MPE Heritage



- 1925** Dubilier in London
Founded by William Dubilier. Design and manufacture of capacitors for radar, radio & tv, & EMC filters
- 1947** Dubilier relocated to Knowsley, Liverpool
- 1980** Manufacturing transferred to current site
- 1981** Reorganisation of business with the Dubilier brand sold to a third party. Filter and capacitor manufacturing business renamed as MPE Limited. Other business areas disposed of or closed
- 1997** Management Buy Out
Focus on core business of specialist capacitors and high performance filters for Defence and commercial markets
- 2002** External investors bought out – now 100% privately owned by Directors
- 2003** Property purchased

Mission Statement



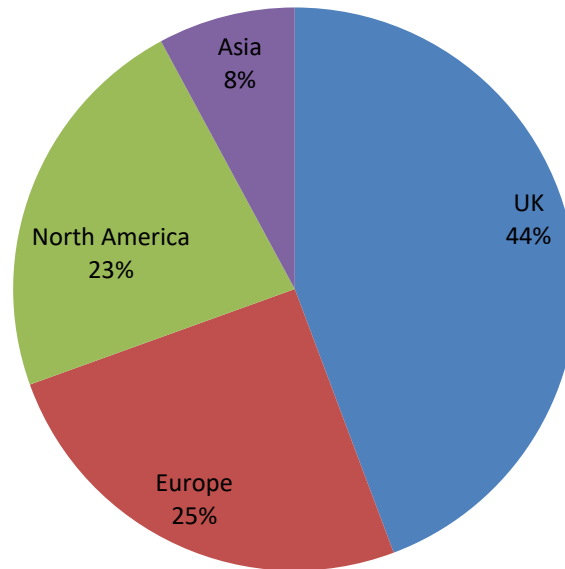
Our Mission:

“To be the number one choice for high performance EMC/EMP filter solutions.”

Company Overview



- 54 employees (40 shop floor)
- During 2018, MPE exported to 28 different territories
- Average turnover by region



- 10% of annual turnover is reinvested into R&D
- Over 100 man years design engineering experience

Board Members



David Seabury
Managing Director (Owner)



Paul Currie
Sales & Marketing Director (Owner)



Marcus Wright
Manufacturing Manager

Key Differentiators



- **Design Philosophy**

All designs are carried out utilising bespoke software and strict design rules. This coupled with MPE's pre compliance test capability, ensure the most cost effective solutions are delivered whilst achieving the highest levels of performance

- **Component Technology**

Metallised plastic film capacitor technology is utilised throughout the MPE range, to guarantee the optimum level of performance, quality & reliability

- **Manufacturing**

All key components & assemblies are manufactured in house to ensure the highest levels of quality and reliability

Manufacturing Excellence



- MPE is based in Liverpool, UK, offering excellent transportation links to ensure a solid supply chain and allow efficient shipments, worldwide
- MPE employs over 40 skilled and experienced manufacturing personnel, cross trained to enable delivery of world class EMC & EMP protection products
- MPE manufacture all critical components & assemblies in house, allowing maximum flexibility to deliver bespoke solutions and rapid prototyping, along with the highest levels of quality control
- MPE have a 3,900m² (42,000ft²) manufacturing footprint, providing manufacturing capabilities to enable the most efficient high volume manufacture of varied and complex designs

Experience



- MPE is recognised as a world leader in providing quality EMC & EMP products that are the most reliable available to the market and has been doing so for over 93 years, allowing customers maximum benefit from design flexibility and in depth technical support
- MPE's portfolio, in excess of 20,000 proven designs, allow the rapid realisation of varied and bespoke designs that are volume repeatable
- MPE's pre compliance capability also ensures customers receive the most effective solution, design tailored for their specific requirement
- MPE continue to provide high volume, repeatable, product to demanding environmental conditions both within the UK and the ROW. These products are often integrated into shielded room applications; military vehicles and other high profile platforms



Experience



- MPE has vast experience of manufacturing and supplying contracts where many 1,000's of units are required on a monthly basis
- Previously, MPE has served manufacturing contracts which have increased company throughput by over 50%
 - Required the set up of dedicated project cells
 - Required additional temporary assembly operators
 - Required increased automation of processes in comparison to other areas of manufacture

Quality & Reliability



- ISO9001: 2015 approval
- Previously NATO AQAP-1
- Products CE marked
- Critical components manufactured in house ensuring processes are all within MPE control
- MPE capacitor & varistor technology in field service for over 30 years
- More than 10 million filter products supplied during past 30 years
- Product return level below 0.012%



Defence Clients



THALES



MINISTRY OF DEFENCE



Raytheon



aselsan



REPUBLIC OF KOREA
대한민국 국방부
Ministry of National Defense



MBDA



Commercial Clients



at&t



MOTOROLA



HYUNDAI



SIEMENS

Statnett

Extensive Portfolio



- **Standard**

Core range of products:

- Feedthrough Capacitors & Filters
- Power Line filters
- Telephone/Data Line Filters
- Control Line Filters
- HEMP & EMP Protection Filters
- Equipment Filters
- Military Vehicle Filters
- TEMPEST Filters
- Ceramic Filters (legacy)

- **Custom**

- Approximately 50% of products supplied are bespoke solutions



Application Examples

Ceramics

Eurofighter Typhoon

Chaff and Flare Dispenser

Ceramic



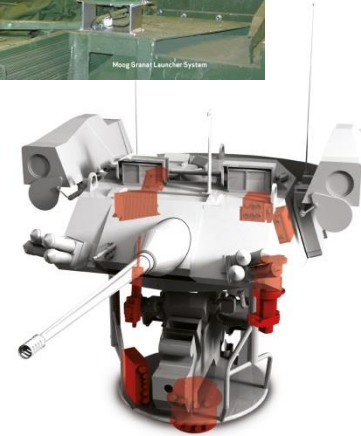
*30,000 units supplied

Feedthroughs

Moog Weaponisation Platforms

Motor Drives

Feedthrough



*50,000 units supplied



TEMPEST Pluggable Filters



Multiple Sensitive MOD sites

Site rest rooms, ready rooms
and meeting rooms

Pluggable

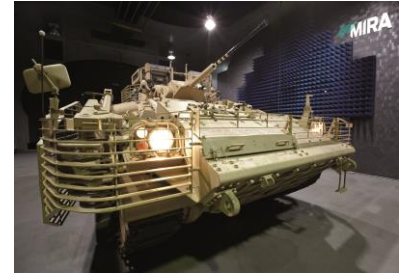


*1,000's of units supplied



Installation Filters

MVG/Mira EMC chambers



Power and signal inputs



Power & signal filters



HEMP Filters

UK MOD site

Upgrade of facility to Mil-Std-188-125

HEMP Suite of filters



Custom Filters

US Space Fence (US Air Force)

EMC cabinets within space debris monitoring system

High current custom variant units

