# Meggitt at a glance

## 01| Group activity

The Meggitt group's antecedents can be traced back to the mid-19<sup>th</sup> century, with innovations such as early aviation instruments for hot air balloons including the world's first altimeter. Today, it is known for designing and manufacturing high performance components and sub-systems for aerospace and defence markets and applies its core sensing and control technologies to hydro, steam and gas turbomachinery generators, oil and gas applications and the medical, mainstream industrial, test engineering and transportation sectors. The group employs c. 10,800 people across 48 operating facilities.

Meggitt's businesses are organised into five divisions that integrate the design and development capabilities and product portfolios of complementary Meggitt business units. These business units focus on operations excellence while reporting to strong divisional management covering key functions including finance, strategy, sales and marketing, engineering, HR, trade compliance and procurement.

#### **Five divisions**

**Meggitt Aircraft Braking Systems** is the number one producer of wheels, brakes and brake control systems for business jets and military and regional aircraft, with leading positions on commercial transports. Its products are on an active fleet of over 34,000 aircraft. Its capabilities include helicopter rotor brakes, and brake temperature and tyre pressure monitoring.

**Meggitt Control Systems** is a leading supplier of aircraft fire protection and control systems, aerospace and industrial fuel and bleed air control valves, heat exchangers, high performance electro-mechanical fans, pumps, compressors, electric motors and controllers and high pressure ducting and ground refuelling products.

**Meggitt Polymers & Composites** designs and develops aircraft seals, flexible fuel tanks and coatings, complex composite structures, smart ice protection systems and sub-assemblies and interior panels and accessories.

**Meggitt Sensing Systems** excels in high performance sensing and monitoring systems for applications in aerospace, energy, industrial and laboratory test, avionics, electrical power systems and aircraft safety and security.

**Meggitt Equipment Group** was created to enable a set of strong, yet technologically-distinct businesses to market their offerings to specialist customers and yet benefit from the wider Meggitt group's investment in shared services and common processes. Its capabilities include unique heat transfer equipment for hydrocarbon processing, linear motion control, combat support (ammunitionhandling, military electronics cooling and countermeasure launch and recovery) and training systems (live and virtual fire).

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#### Headquarters

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## Meggitt fact sheet (US)

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## 02| Financial highlights

Quoted on the London Stock Exchange and in the FTSE index, Meggitt's market capitalisation in December 2014 was just over £4 billion.

In the year ended December 31, 2014, sales were £1,553.7 million yielding an underlying profit before tax of £328.7 million.

Research and development expenditure in 2014 was c. £148.3 million, representing 9.5% of sales.

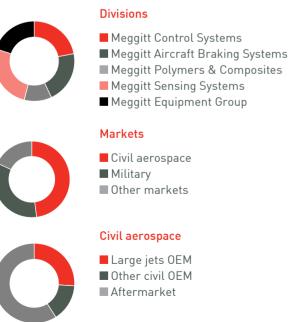
#### 03| Strategy

Focus on components and sub-systems operating in harsh environments; invest in products with high technology content and long-term aftermarket value; and deliver growth through organic investment and acquisition. We target aerospace and defence, primarily, and specialist positions in energy.

Meggitt balances its businesses across market segments; develops and protects strong intellectual property linked to stable, growing aftermarkets; reinforces strong organic growth with acquisitions; and invests in people, facilities, operations and strategy-led technology development. Its evolving group infrastructure is designed to ensure that its companies work together to benefit customers and operations.

#### 04| Sales in 2014 across market segments, customers and countries

Leading customers: the US Government was Meggitt's largest customer. Other major customers included Airbus, BAE Systems, Boeing, Bombardier, Delta Airlines, Embraer, Finmeccanica, General Dynamics, General Electric, Honeywell, Lockheed Martin, Raytheon, Rolls-Royce, Safran, Textron, United Continental and United Technologies Corporation and, in the energy sector, Siemens, Shell and Petrobras.



- stems
  - 11% 26% 20%

22%

21%

#### % of group turnover

% of group turnover

48% 34% 18%

#### % turnover

26% 15% 59%

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Military	% turi
Fixed wing	45%
Rotary wing	28%
Ground vehicles	3%
Training and other	24%
Other markets	% turi
Energy	60%
■ Industrial and other	40%
Country of destination	% of g
UK	10%
■ Rest of Europe	22%
USA	49%
Rest of world	19%

#### 05| Group structure

#### Turnover 2014 (by division)

Meggitt Control Systems	£348.7M
Meggitt Aircraft Braking Systems	£327.0M
Meggitt Polymers & Composites	£162.3M
Meggitt Sensing Systems	£398.2M
Meggitt Equipment Group	£317.5M

#### Worldwide locations

Region	Number of lo
USA	27
UK	15
Mainland Europe	13
Asia and rest of world	15

#### **Employees worldwide**

Region
USA
UK
Mainland Europe
Asia and rest of world

#### % turnover

45% 28% % 24%

#### % turnover

#### % of group turnover

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## Meggitt fact sheet (US)

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Number of locations

## Number of employees

5,385 2,847 1,554 1,037



#### Meggitt Aircraft Braking Systems

A leading supplier of aircraft wheels, brakes and brake control systems

Markets	<ul> <li>Commercial transport</li> <li>Business jets</li> <li>Fixed and rotary wing military aerospace</li> </ul>
Capabilities	<ul> <li>Wheels and brakes</li> <li>Control—brake, nose wheel steering and landing gear</li> <li>Monitoring</li> </ul>
Facilities	Mexico, Singapore, UK, USA
Growth strategy	<ul> <li>Secure positions, sole source where possible, on new aircraft programmes</li> <li>Develop market-leading technologies—electric braking and innovative, long- life carbon heat sink materials</li> </ul>

- Expand landing gear sub-systems control and monitoring capability
- Leverage low-cost manufacturing capability

**Meggitt Control Systems** 

A leading supplier of pneumatic, fluid control, thermal management and electro-mechanical equipment and sub-systems

Markets	<ul> <li>Commercial, military, regional, business and general aviation</li> <li>Military ground vehicles</li> <li>Marine and industrial energy</li> <li>Ground fuelling</li> </ul>
Capabilities	<ul> <li>Heat management</li> <li>Control valves and sub-systems</li> <li>Electro-mechanical controls</li> <li>Fuel handling</li> <li>Aircraft fire protection and control systems</li> <li>All-electric actuation</li> </ul>
Facilities	US, UK
Growth strategy	<ul> <li>Deliver weight-saving aerospace products with more accurate control that can withstand higher engine temperatures</li> <li>Develop products that enable customers to meet low emission regulations</li> <li>Create products that optimise industrial power generation plant efficiency</li> <li>Support developing global infrastructures—new airports and pipelines in particular</li> <li>Advance weight-saving, high-reliability electro-mechanical devices to replace hydraulics in military ground vehicles</li> <li>Implement low-cost manufacturing and optimise sourcing</li> <li>Integrate fire detection with fire suppression to deliver a complete fire protection capability</li> </ul>

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#### **Meggitt Polymers & Composites**

A leading specialist in fuel containment, engineered aircraft sealing solutions and technical polymers, electro-thermal ice protection and complex composite structures and assemblies

Markets	<ul> <li>Civil and military, fixed and rotary wing aircraft</li> <li>Military fighting vehicles</li> <li>Nuclear, marine, heavy transportation and oil and gas sectors requiring our specialist technical polymers</li> </ul>	02 03 04 <b>05</b>
Capabilities	<ul> <li>Flexible, ballistically-resistant and crashworthy fuel cells</li> <li>Wet wing fuel storage</li> <li>Engineered lightweight, high performance seals and specialist technical polymers</li> <li>Smart electro-thermal ice protection with energy-saving proportional control</li> <li>Complex composite structures</li> </ul>	06 07 08 09
Facilities	China, UK, USA	
Growth strategy	<ul> <li>Retain number one position in military aircraft fuel cells</li> <li>Attract more civil and ground vehicle fuel cell contracts</li> <li>Become a leading supplier of wet wing fuel storage</li> <li>Become the supplier of choice for engineered aircraft sealing solutions, increasing military share in particular</li> <li>Exploit combined division's capability in specialist technical polymers</li> <li>Become a leading supplier of energy-conscious electro-thermal ice protection for fixed wing aircraft</li> <li>Grow composites and assemblies business targeting small aircraft structures, often highly complex ones</li> </ul>	Mee Atla Avia Bou Airı Dor Uni
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#### **Meggitt Sensing Systems**

A leading provider of high performance sensing and condition-monitoring solutions for high-value rotating machinery and other assets

Markets	<ul> <li>Civil aerospace: large, regional and business jets, general aviation and space</li> <li>Military: fixed wing and rotary aircraft, ships, missiles</li> <li>Energy</li> <li>Test and measurement</li> <li>Medical</li> </ul>
Capabilities	<ul> <li>High-performance sensing in extreme environments</li> <li>Condition-monitoring for air and land-based machinery</li> <li>Power management</li> <li>Avionics</li> <li>Aircraft safety and security</li> </ul>
Facilities	China, Denmark, France, India, Switzerland, UK, USA and Vietnam

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#### Growth strategy

- Continue to invest in high-performance sensing technologies

- Combine them with advanced condition-monitoring systems that reduce aircraft operating costs, optimise maintenance regimes and reduce pollution
- Apply expertise beyond aero-engines to other applications across the airframe such as tyre pressure and landing gear monitoring to support next-generation integrated vehicle health management solutions
- Focus on growing energy market by expanding geographical presence and marketing highly targeted solutions
- Re-establish market leadership in test and measurement, leveraging technology advantages and combining them with premium service levels
- Leverage our assets in power generation, conversion and storage to add value to the more electric aircraft

#### **Meggitt Equipment Group**

Enables a set of strong, technologically-distinct businesses to market their offerings to specialist customers, while benefiting from the wider Meggitt group's investment in shared services and common processes.

Markets	<ul> <li>Military and civil aerospace</li> <li>Defence and security</li> <li>Energy</li> <li>Automotive and industrial</li> </ul>
Capabilities	<ul> <li>Combat systems (ammunition-handling, military electronics cooling and countermeasure launch and recovery systems)</li> <li>Live-fire and simulation training</li> <li>Heat transfer equipment for off-shore oil and gas</li> <li>Automotive and industrial control electronics</li> <li>Linear motion control</li> </ul>
Facilities	Australia, Canada, France, Germany, Netherlands, Singapore, Spain, UAE, UK, USA
Growth strategy	
Heat transfer	<ul> <li>Continue to drive the market to use compact, high-pressure, high-duty heat exchangers and maintain market lead in this unique technology</li> <li>Explore options in chemical reformer and nuclear markets</li> </ul>
Combat systems	<ul> <li>Provide smart thermal management solutions to military electronics cooling problems</li> <li>Extend automatic handling capability into larger calibre weapons</li> <li>Continue to develop countermeasure launch and recovery systems to address emerging threats</li> </ul>

- Advance Doppler radar sensing for combat and situational awareness

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Live-fire and simulation training

- Become a preferred supplier for integrated and networked live and virtual training packages for the armed services and security and law enforcement organisations worldwide

Automotive and industrial control

- Grow bespoke position sensing capability and extend into adjacent markets with contact-less sensor technology
- Expand global automotive supply capability and expand higher value-added solutions for failsafe applications

## 06 Acquisitions

December 2014	PECC (Precision Engine Controls Corporation), a leading supplier of small-frame gas turbine actuation systems and fuel metering valves used in oil and gas and power generation.
September 2013	Piezo Technologies, a pioneer in high performance piezo-ceramic technology
April 2011	Pacific Scientific Aerospace, a leading supplier of equipment for critical military systems, commercial transport aircraft, business jets and general aviation
January 2008	Ferroperm Piezoceramics A/S, the Danish producer of advanced piezo-electric ceramic materials for sensing products
July 2007	K&F Industries Holdings Inc, a supplier of wheels, brakes, brake control systems, flexible bladder fuel tanks, helicopter interiors, ice protection and sealants
October 2006	Firearms Training Systems, a provider of simulation products for firearms training
September 2006	Keith Products, a supplier of compact air conditioning systems for business jets and general aviation aircraft
August 2006	Radatec, a US start-up with breakthrough turbine tip clearance measurement technology
November 2005	ECET, an ignition systems and airborne electronic equipment specialist
November 2005	Sensorex, a sensors and electronics specialist
July 2005	Avery-Hardoll, a manufacturer of aerospace ground refuelling equipment

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December 2004	Wilcoxon Research, a specialist sensors manufacturer
December 2004	Schreiner Canada, unmanned aerial and marine targetry
August 2004	The design and manufacturing division of Dunlop Standard Aerospace. Dunlop Aerospace Braking Systems and related aftermarket services (Dunlop Aerospace Services) form a new, stand-alone operating unit. Dunlop Ice Protection & Composites, Dunlop Precision Rubber (merging with Bestobell Aviation to become Dunlop Bestobell, now Meggitt Polymer Solutions), Dunlop Equipment, Serck Aviation and Stewart Warner South Wind are integrated into Meggitt's then aerospace equipment division
December 2003	Meggitt Western Design, a designer and manufacturer of automated ammunition- handling equipment and environmental control systems
December 2003	Meggitt Airdynamics, a designer and manufacturer of pumps, fans and compressors for ground, naval and aircraft applications
March 2003	Caswell International, a supplier of ground-based live fire training equipment systems
January 2003	General Electric turbine clearance control valve product line
November 2002	Lodge (ex-Smith's Group plc) temperature and speed sensors
July 2002	BAE Systems' military air data and data acquisition computers
April 2002	Kaman Aerospace Corporation high integrity radio frequency cables

## 07| Disposals

December 2013	Sunbank (connector components)
May 2013	Meggitt (Addison) Inc (compact GA air conditioning systems)
January 2008	S-TEC
May 2003	Meggitt Petroleum Systems
November 2002	Wayfarer Transit Systems and Systech Solutions (ticketing systems)
May 2002	Silicone Engineering (non-core polymers for white goods)
May 2002	Meggitt Defense Systems, Texas (non-core unmanned air vehicles)
December 2001	Meggitt Electronic Components (non-core passive electronics)

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## 08 | Board of directors

- 01 Sir Nigel Rudd\* (Chairman)
- 02 Stephen Young (Chief Executive)
- 03 Doug Webb (Chief Financial Officer)
- 04 Philip Green (Group Corporate Affairs Director)
- 05 Paul Heiden\*
- \* Non-executive

#### 09 | History

1947	Founded in Halifax as a lathe manufacturer.
1947	Became a quoted public company.
1964	Acquired Meggitt Engineering Ltd, a general light engineering company based in Bournemouth.
1984	Management buy-in to build a geographically diverse, international engineering company serving speciality sectors in aerospace, controls, electronics and energy.
1995	Group reorganised to focus on core business of aerospace, defence systems and electronics.
1998	Group acquired Vibro-Meter, significantly increasing its core capability in engine condition monitoring and diagnostics.
1999	Group acquired California-based Whittaker Corporation. Increased Meggitt presence in aftermarket business (repair and overhaul of aircraft components), significantly increasing the volume of business with major aircraft original equipment manufacturers and their customers.

- **Since 1999** Series of acquisitions and disposals to enhance core businesses and improve the operations mix between the UK and US and civil and military, and original equipment and aftermarket applications including the design and manufacturing division of Dunlop Standard Aerospace and K&F Industries Holdings Inc (see 06 and 07).
- 2010 Group reorganised under five new divisions focusing on polymers and composites, control systems, aircraft braking systems and sensing systems. Business units became facilities reporting to divisional management. Business units in the Meggitt Equipment Group continued to trade as discrete units but within a new divisional infrastructure that enabled them to benefit from a range of cross-group programmes and functions.

For further information on Meggitt's history, see 'Meggitt in Minute' and 'Meggitt the Musical' on the homepage of www.meggitt.com.

#### 06 David Williams\*

- 07 Brenda Reichelderfer\*
- 08 Guy Berruyer\*
- 09 Alison Goligher\*

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