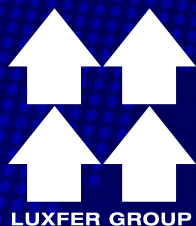


# LUXFER

KeyBanc Conference • September 2015



LUXFER GROUP

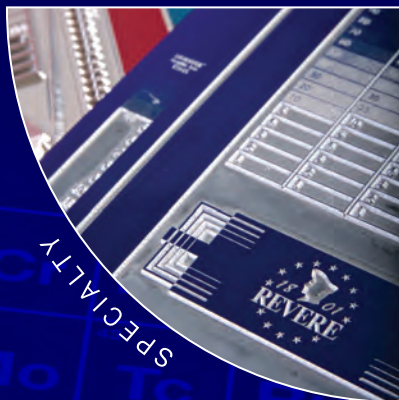
LXFR  
LISTED  
NYSE



HEALTHCARE



ENVIRONMENTAL



SPECIALTY



PROTECTION

*A global  
materials  
technology  
company*

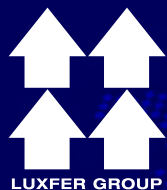
# Forward-looking statements

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This presentation contains forward-looking statements. Examples of such forward-looking statements include, but are not limited to: (i) statements regarding the Group's results of operations and financial condition, (ii) statements of plans, objectives or goals of the Group or its management, including those related to financing, products or services, (iii) statements of future economic performance and (iv) statements of assumptions underlying such statements. Words such as "believes", "anticipates", "expects", "intends", "forecasts" and "plans" and similar expressions are intended to identify forward-looking statements but are not the exclusive means of identifying such statements. By their very nature, forward-looking statements involve inherent risks and uncertainties, both general and specific, and risks exist that the predictions, forecasts, projections and other forward-looking statements will not be achieved. The Group cautions that a number of important factors could cause actual results to differ materially from the plans, objectives, expectations, estimates and intentions expressed in such forward-looking statements. These factors include, but are not limited to: (i) future revenues being lower than expected; (ii) increasing competitive pressures in the industry; (iii) general economic conditions or conditions affecting demand for the services offered by us in the markets in which we operate, both domestically and internationally, being less favorable than expected; (iv) the significant amount of indebtedness we have incurred and may incur and the obligations to service such indebtedness and to comply with the covenants contained therein; (v) contractual restrictions on the ability of Luxfer Holdings PLC to receive dividends or loans from certain of its subsidiaries; (vi) fluctuations in the price of raw materials and utilities; (vii) currency fluctuations and hedging risks; and (viii) worldwide economic and business conditions and conditions in the industries in which we operate. The Group cautions that the foregoing list of important factors is not exhaustive. These factors are more fully discussed in the sections "Forward-Looking Statements" and "Risk Factors" in our annual report on Form 20-F for the year ended December 31, 2014, filed with the U.S. Securities and Exchange Commission on March 19, 2015. When relying on forward-looking statements to make decisions with respect to the Group, investors and others should carefully consider the foregoing factors and other uncertainties and events. Such forward-looking statements speak only as of the date on which they are made, and the Group does not undertake any obligation to update or revise any of them, whether as a result of new information, future events or otherwise.







LUXFER GROUP

# Presentation team



**Brian G. Purves**  
**Chief Executive**

- Chief Executive since January 2002.
- Group Finance Director from 1996 to 2001.
- Prior to 1996, worked 18 years in the UK automotive industry.
- Chartered Management Accountant.
- BSc in Physics and MSc in Business Studies.
- 19 years with Luxfer.



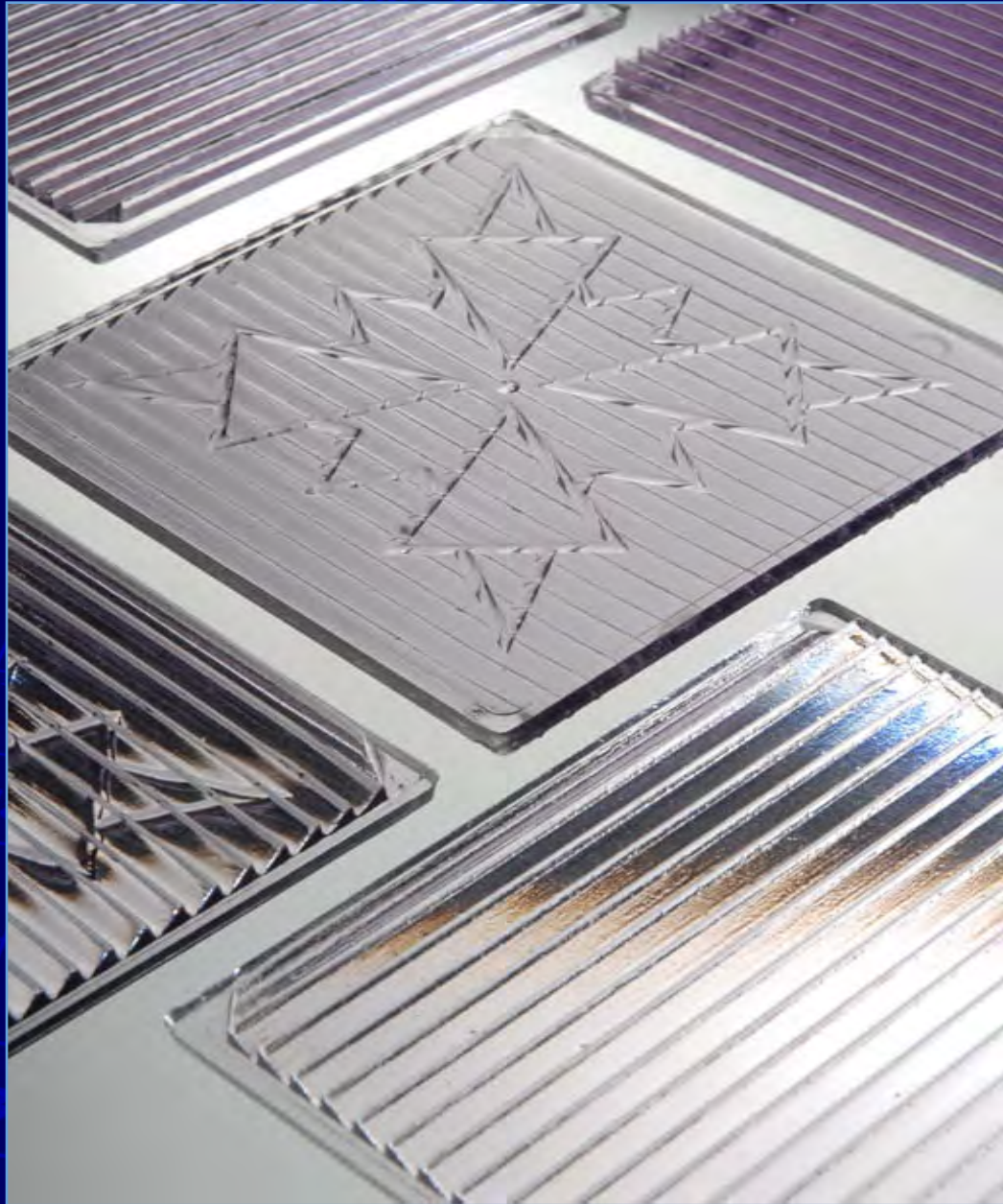
**Andrew M. Beaden**  
**Group Finance Director**

- Group Finance Director since June 2011.
- Executive Management Board since 2006.
- Director of Planning and Finance since 2008 and Group Financial Controller since 2002.
- Qualified Chartered Accountant with KPMG.
- Financial experience with various FTSE 100 PLCs.
- 18 years with Luxfer.



LUXFER GROUP

# Luxfer founded in 1897



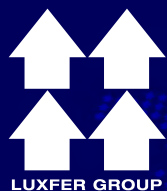
Luxfer was founded by Scottish inventor James Pennycuik in **1897** in **Chicago**, Illinois, to produce **prismatic glass** products to illuminate architectural interiors in North American and Europe. The name Luxfer comes from Latin *lux* (light) and *ferre* (to carry), so it literally means “**light carrier.**”



The company established its first subsidiary in **England** in **1898**, followed by plants in France, Belgium and Germany in 1899. The British company is the main ancestor of today's **Luxfer Group.**

British advertisement, circa 1900.





LUXFER GROUP

# Our Alcan heritage



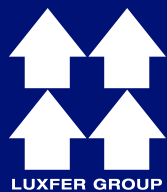
All the companies that now comprise **Luxfer Group** were owned by **British Alcan** until **1996**, when Alcan sold these businesses—and several others—to a group of investors, including a number of former Alcan managers.

In 2000, the new owners sold aluminum plate, sheet and extrusion operations, as well as several distribution businesses, to Alcoa.

The remain four businesses—**Magnesium Elektron**, **MEL Chemicals**, **Luxfer Gas Cylinders** and **Superform**—were the core operations of Luxfer Group when the company listed on the New York Stock Exchange on **October 3, 2012**.

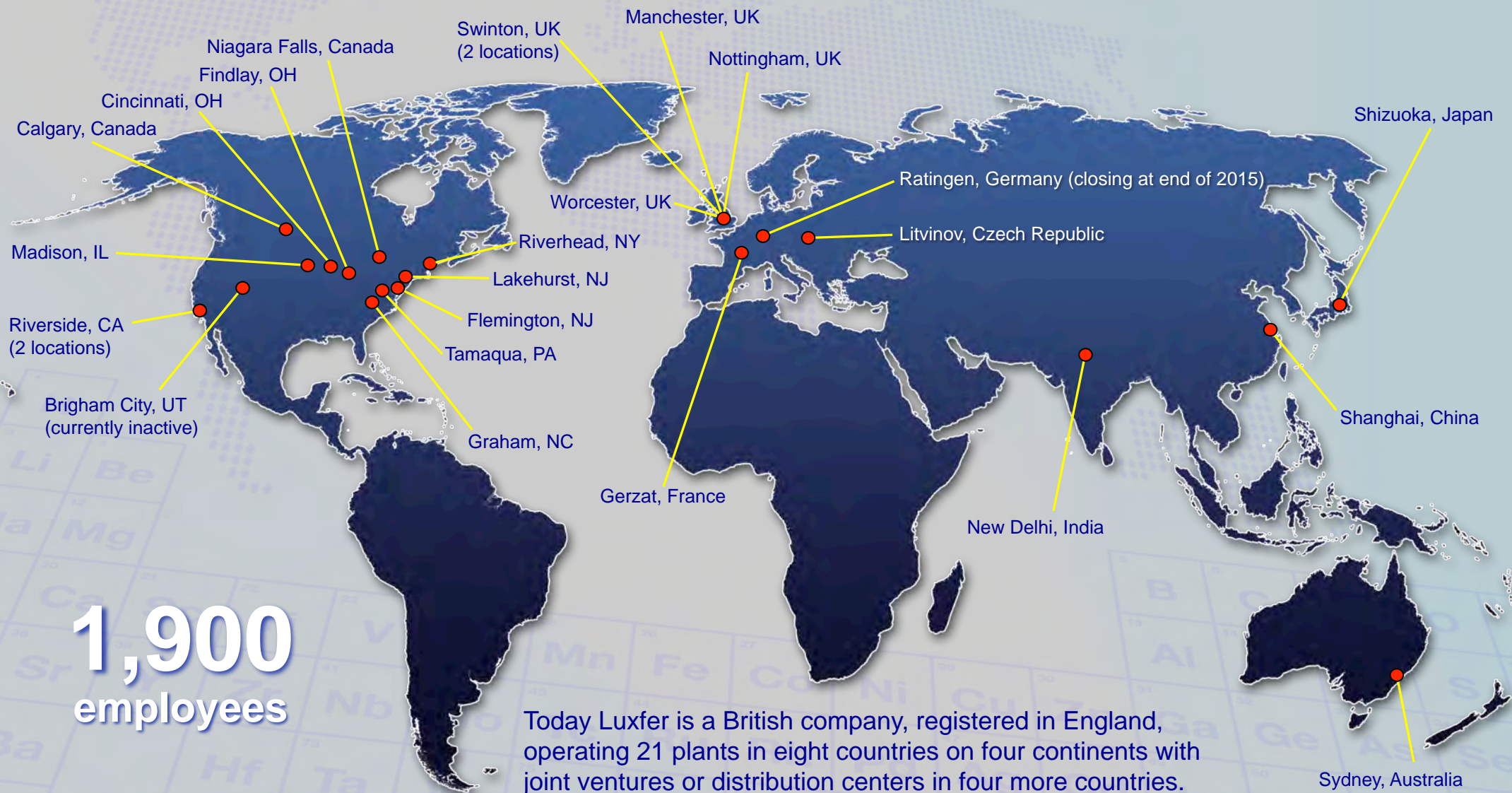






# Expansive global footprint

USA • Canada • UK • France • Czech Republic • China • Japan • Australia • India • Germany

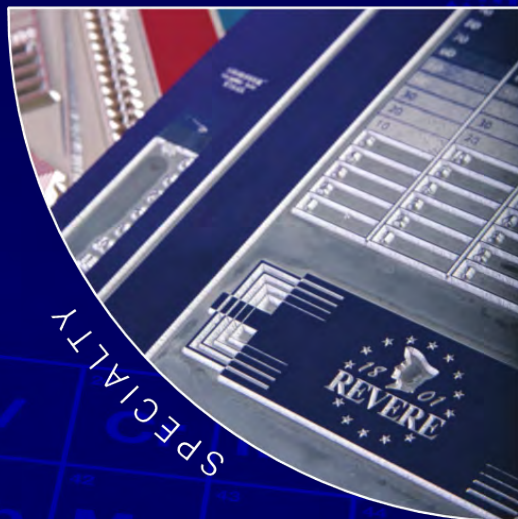


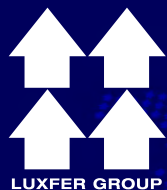




LUXFER GROUP

# Our four end-markets





LUXFER GROUP

# Our four global brands



**Magnesium Elektron®**

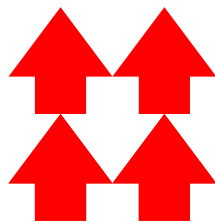
SERVICE & INNOVATION IN MAGNESIUM



**MEL** *Chemicals*®

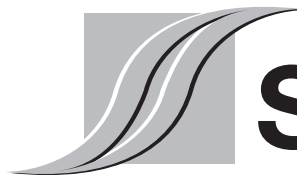
Elektron  
Division

Gas  
Cylinders  
Division



**Luxfer®**

Gas Cylinders



**SUPERFORM®**





LUXFER GROUP

# The Luxfer Model

HIGH-PERFORMANCE PRODUCTS



STRONG CUSTOMER RELATIONSHIPS<sup>®</sup>



TECHNOLOGY

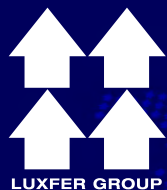


INNOVATION



MANUFACTURING EXCELLENCE





LUXFER GROUP

# Blue chip customers

We have long-standing relationships with these world-class companies:



United  
Technologies



BENTLEY



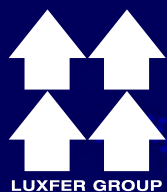
The Chemical Company



Johnson Matthey

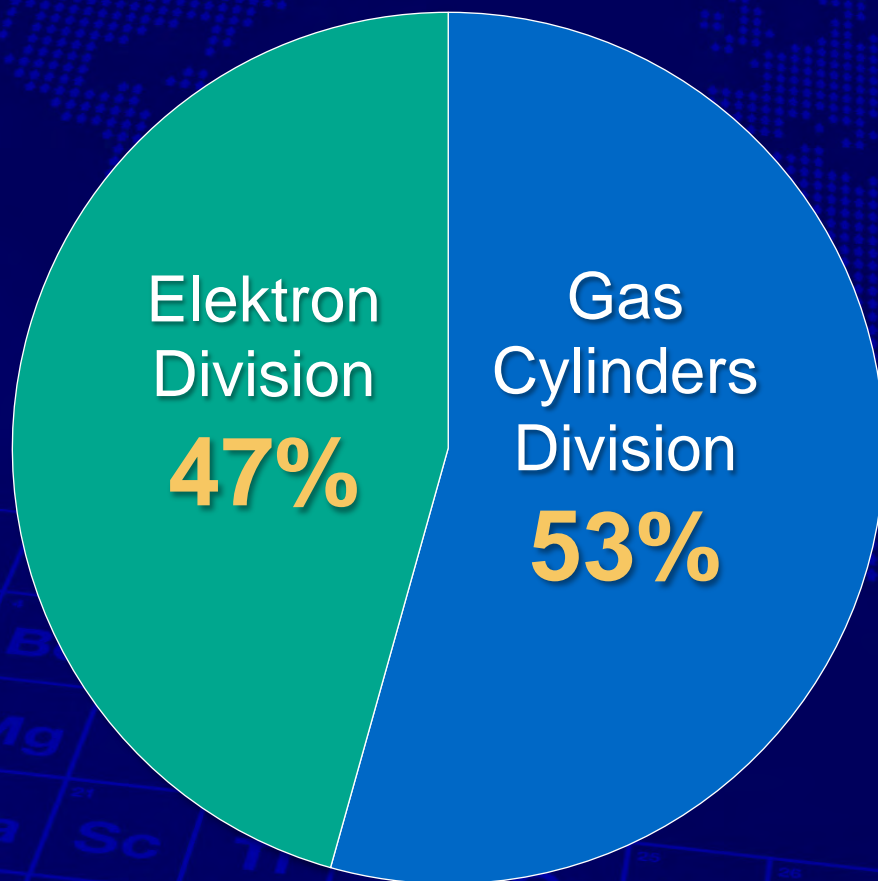




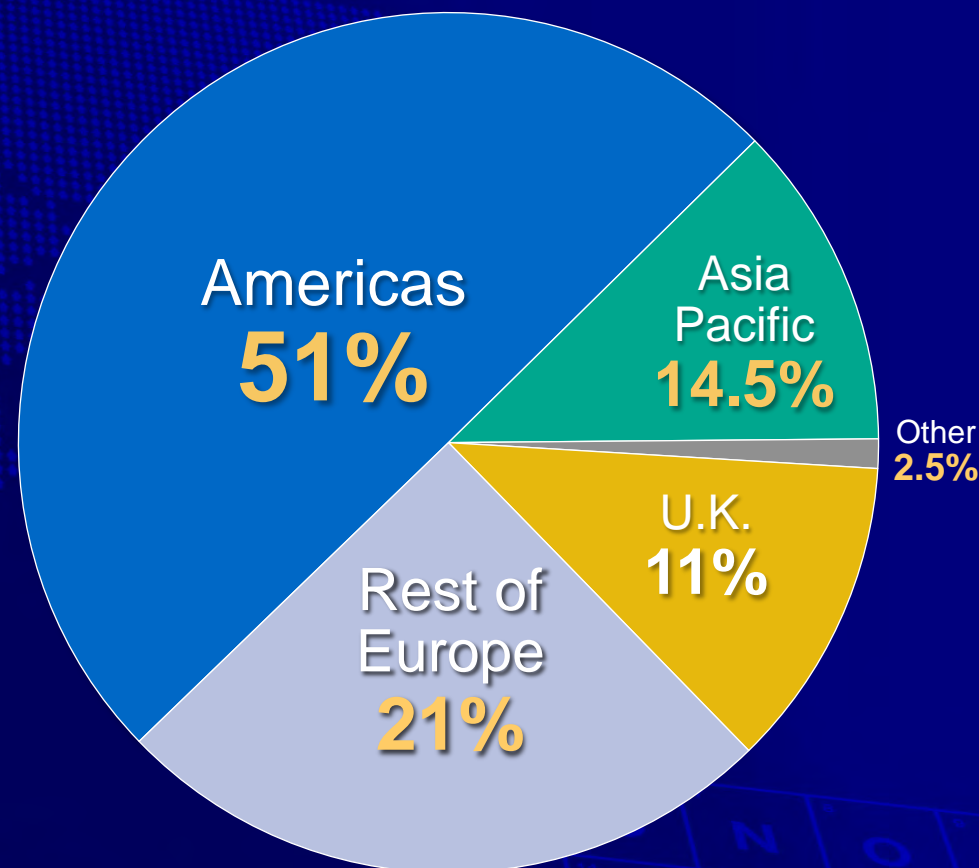


# Diversified business mix

Revenue by business



Revenue by destination



2014 revenue: **\$489.5 million**

• Adjusted EBITDA: **\$64.8m**





# Advanced materials technology

Luxfer specializes in **advanced** products made primarily from four **materials**:



**Magnesium**



**Aluminum**

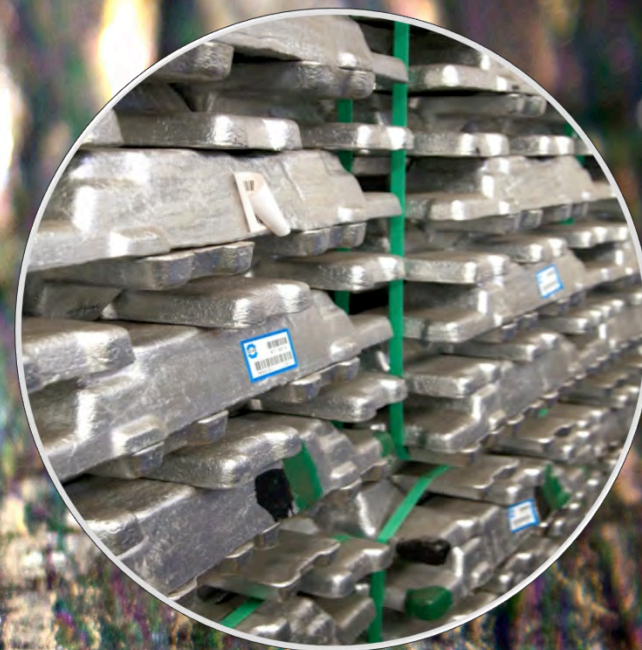
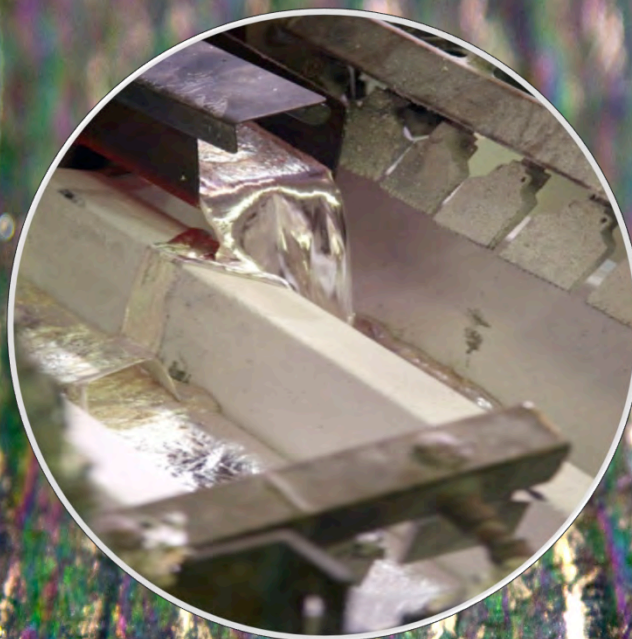


**Zirconium**



**Composites**





# Magnesium



**Magnesium is the lightest-weight structural metal: 2/3 the density of aluminum and 1/4 that of steel. Luxfer holds more global patents on magnesium alloys than any other company.**

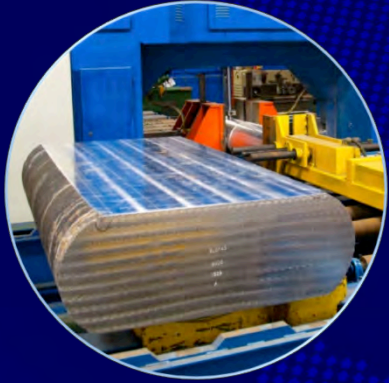


LUXFER GROUP



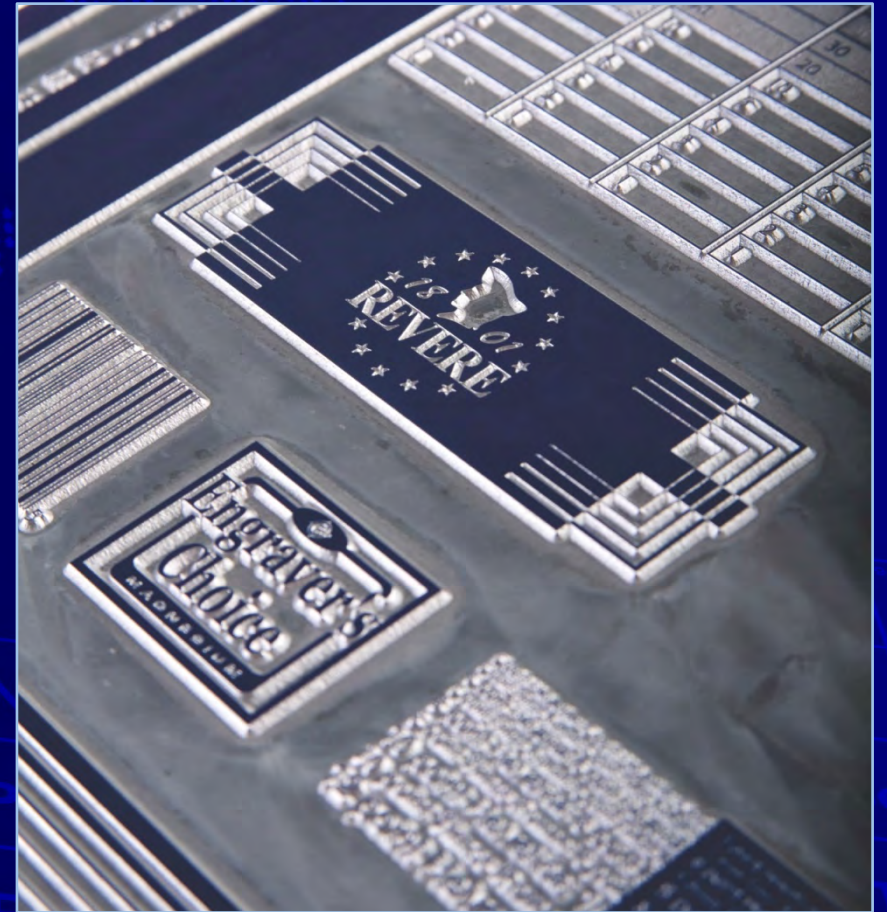
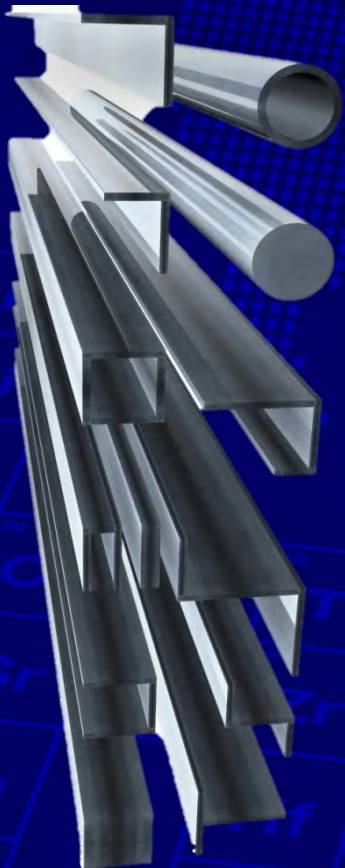


# Magnesium



Luxfer is the only Western supplier of high-quality magnesium **photo-engraving plate**.

We also make **sheet, plate, extrusions** and **ultra-fine powders** and run a dedicated **recycling** operation.







# Magnesium



In Madison, Illinois, Luxfer operates the **world's largest** magnesium rolling mill.





# Magnesium



Luxfer is the world leader in the production of bespoke magnesium powders for **countermeasure flares** that protect aircraft from heat-seeking missile attack.





# Magnesium



Luxfer is a global leader in magnesium **aerospace alloys** for both military and civilian applications. **Helicopter gearboxes** were an important breakthrough application for our alloys.







# Magnesium

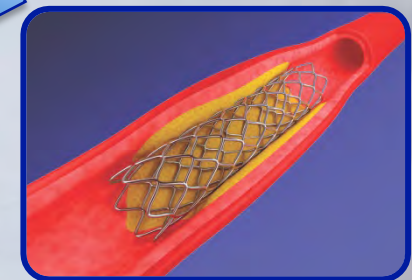


## *Migrating technologies*

Magnesium alloys for helicopter gearboxes



Civil airliner seat components.



Bioabsorbable magnesium alloy for in-body repair





# Magnesium



Luxfer's **Elektron 43** magnesium alloy has **passed all tests** conducted by the FAA Fire Test Working Group.



*Aircraft Interiors  
Expo 2015 in  
Hamburg.*



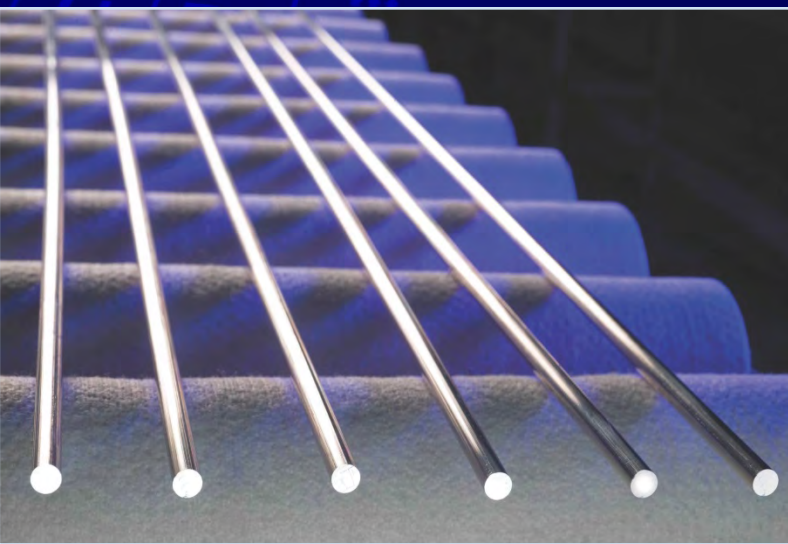
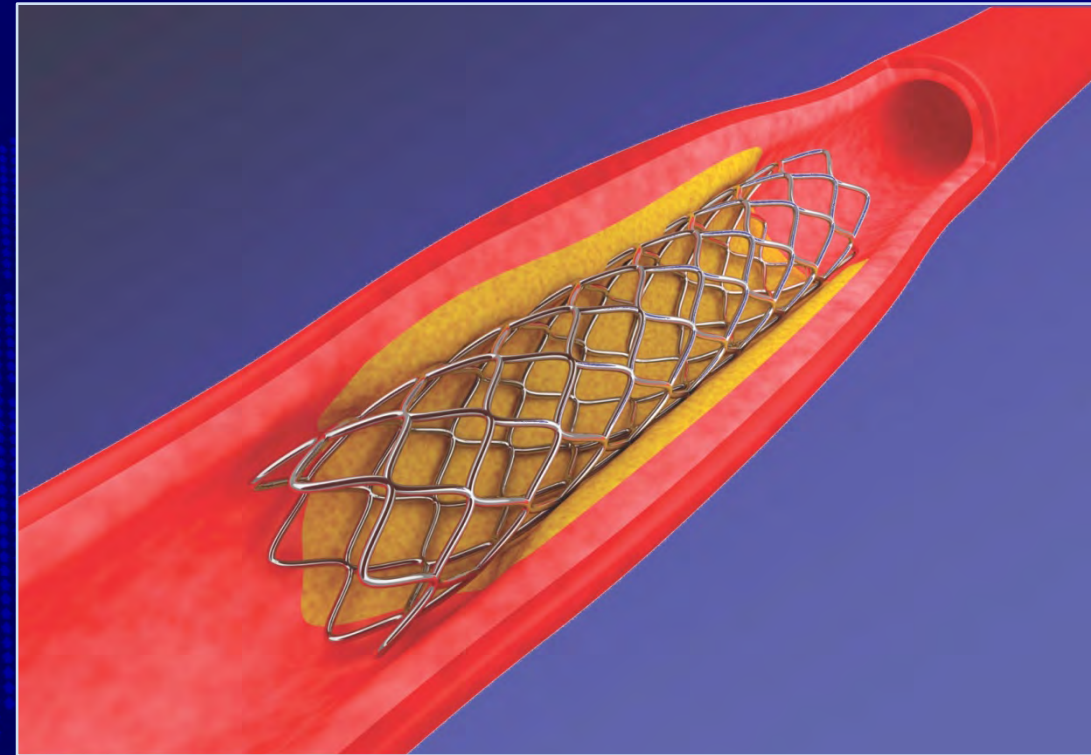
*In development:* Luxfer continues to make progress toward use of our **magnesium alloys** in **civil airliner seats**. Two seat manufacturers are now using our Elektron 43 alloy, and others are considering it because of significant weight savings offered by magnesium against traditional aluminum alloys used by the industry.







# Magnesium



*In development:* Luxfer's new **SynerMag<sup>®</sup>** **bioabsorbable magnesium alloy** is now in human trials. The alloy is used to produce arterial stents, as well as splints and screws for bone repair. Once repair is complete, the material **safely dissolves** and is absorbed in the body.





# Magnesium



**Luxfer Magtech Inc. (LMI)**, our newest company, makes magnesium-based heating pads for self-heating meals used by the military. **HeaterMeals®**, which use the same heating technology, are a mainstay in civilian disaster-relief. LMI also markets self-heating beverages under the brand **Café 2 Go®**.





healthcare

40  
**Zr**  
Zirconium  
91.22

protection  
MEL Chemicals®

# Zirconium

Our versatile zirconium chemicals offer low relative toxicity and high-temperature tolerance for a wide variety of applications.

environmental

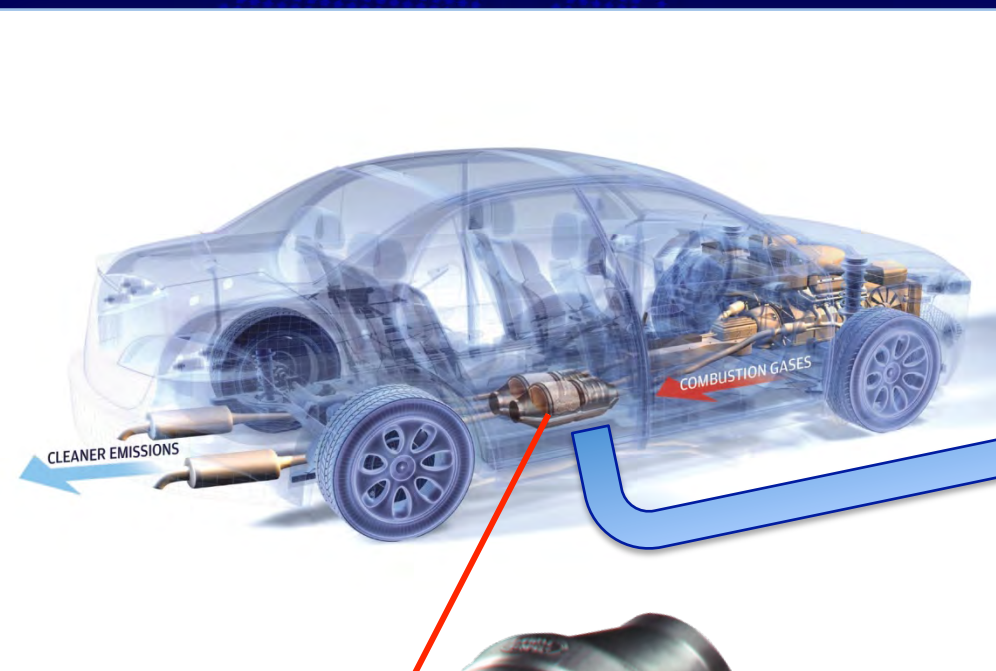
speciality







# Zirconium



## *Migrating technologies*



We are a major player in **zirconium-cerium** washcoats for automotive **catalytic converters**.

MEL Chemicals has migrated this catalytic converter know-how into proprietary new technology for **catalysis** and **pollution control** in refineries, petrochemical plants and other large industrial manufacturing facilities.





# Zirconium



Our highly adsorptive **water-purification** products effectively **remove arsenic** and other heavy metals from drinking water and wastewater. Systems are available in a **variety of sizes** ranging from small home units to larger central-treatment systems for communities.







# Zirconium



## *Migrating technologies*



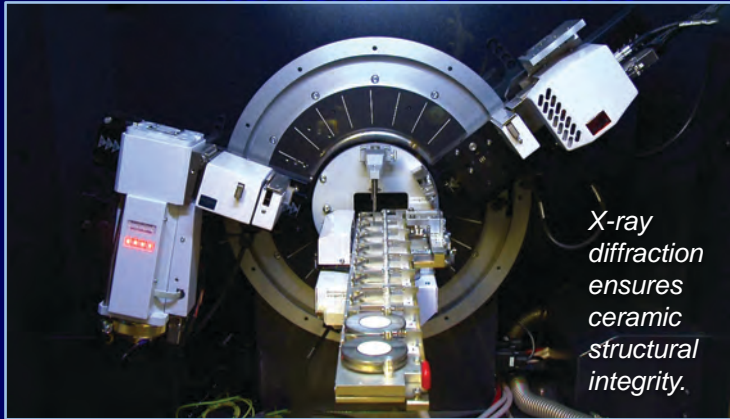
*In development:* **Luxfer Magtech** makes kits for **detecting** and **decontaminating chemical agents**. We are in the process of improving these products by using our zirconia-based **adsorbent technology** originally used for water purification.



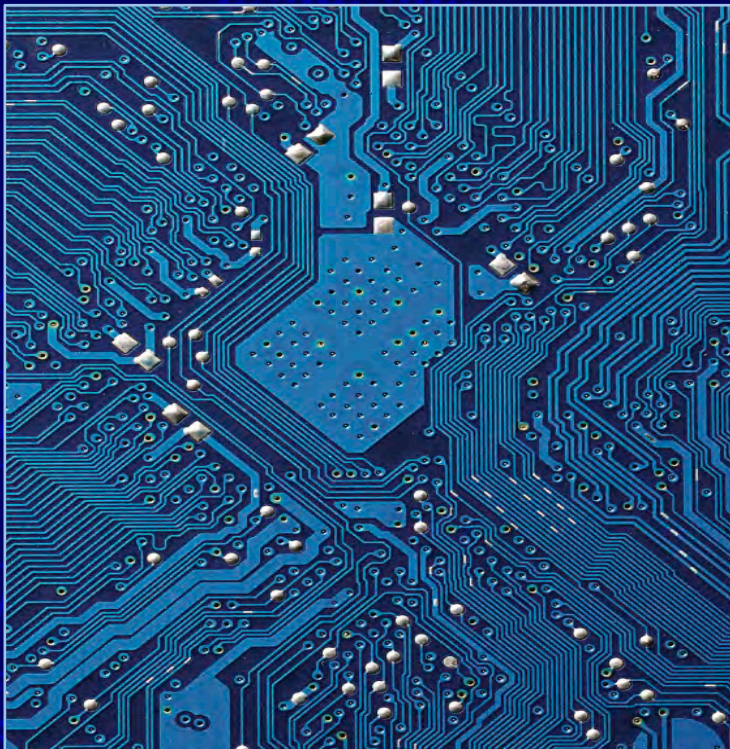


# Zirconium

Zr



X-ray  
diffraction  
ensures  
ceramic  
structural  
integrity.



Zirconium is used to make high-quality electro-ceramics.



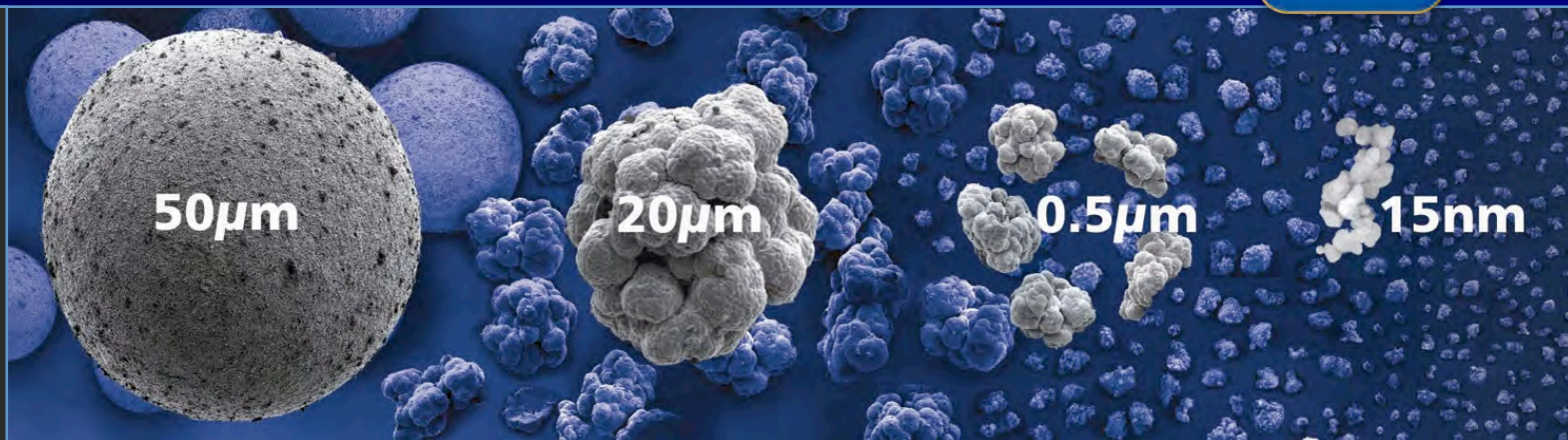
Zirconium oxide ceramic filters remove slag, dross and other impurities from molten metal during production of high-quality castings.

Our zirconium oxides are used to create a variety of **advanced ceramic products** used for circuit boards, filtration of molten metal alloys and as substrates for catalysts requiring large internal surface areas.





# Zirconium



We produce an extensive, proprietary range of high-quality pure **zirconia**, nano-zirconia, doped zirconia and zirconium hydroxides, salts and solutions used in a wide **variety of products**, including electronic components, paint and pigments, printing ink, adhesives, antiperspirants, cosmetics, dental crowns and various medical products.







# Aluminum



**We have been  
manufacturing  
products from  
aluminum for  
more than  
75 years.**







# Aluminum

AI



Luxfer is the world's **largest** manufacturer of high-pressure aluminum cylinders. We **invented** the high-pressure, hot-extruded **aluminum cylinder** in 1941 and the cold-extruded aluminum cylinder in 1958. We have a long history of cylinder innovation, including using our own patented and proprietary alloys.







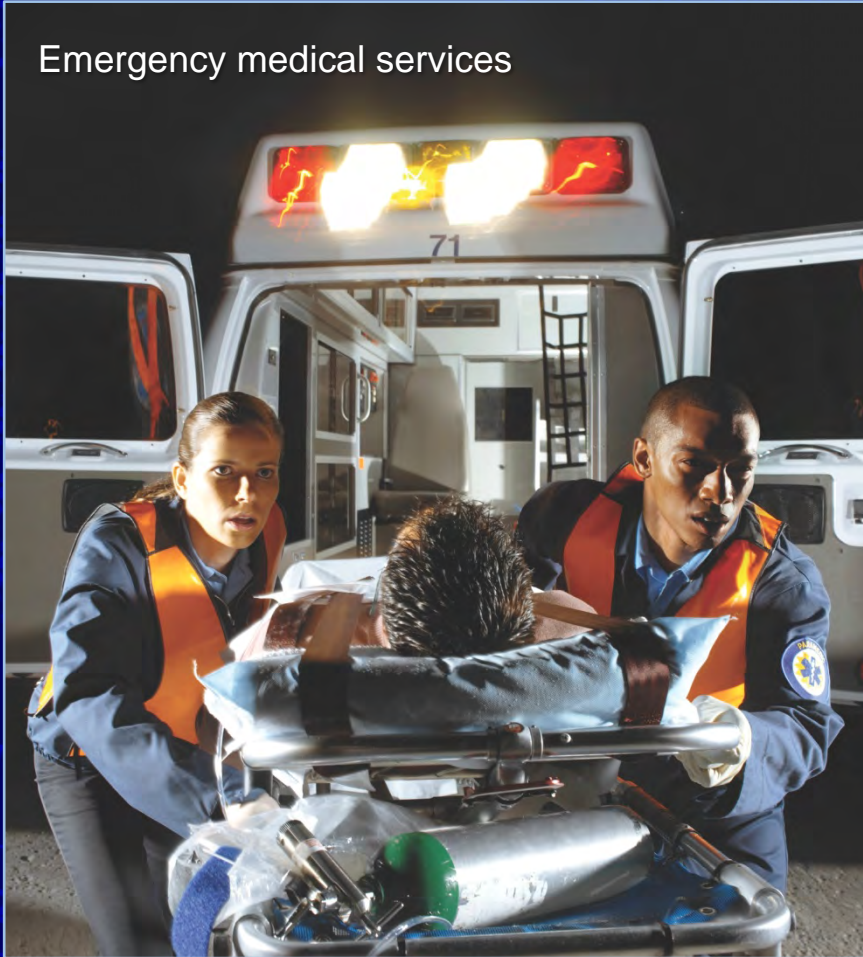
# Aluminum

AI

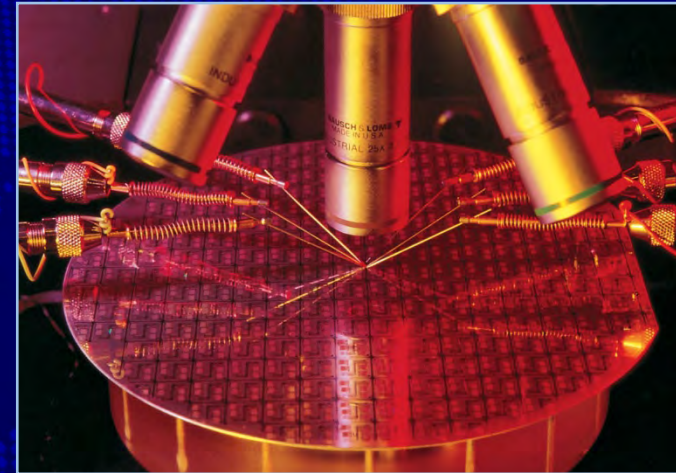
Healthcare

## *How our aluminum cylinders are used*

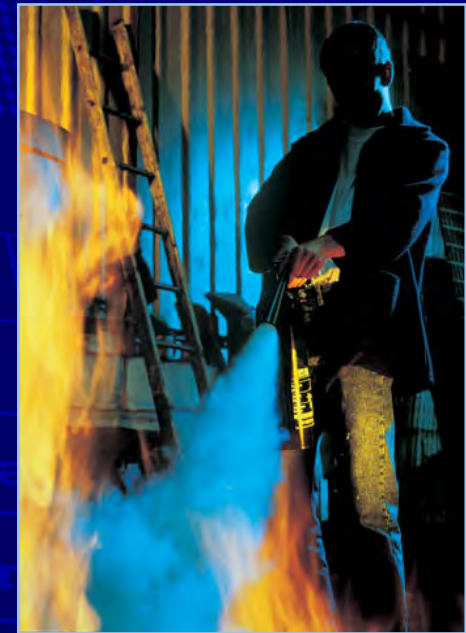
Emergency medical services



Manufacture of microchips and electrical components



Fire extinguishers



Scuba diving

Beverage dispensing







# Aluminum

AI

Luxfer invented and remains the global leader in the **superforming** process for making high-value-added, complex, **sheet-based parts** from aluminum for automotive, aerospace, rail, medical and architectural markets. We are now also forming magnesium sheet.



Components  
for London  
Metro railcars.



Superform UK has  
been manufacturing  
exterior body parts  
for Morgan Cars for  
many years.

Engine  
nacelle cover  
for the new  
HondaJet.



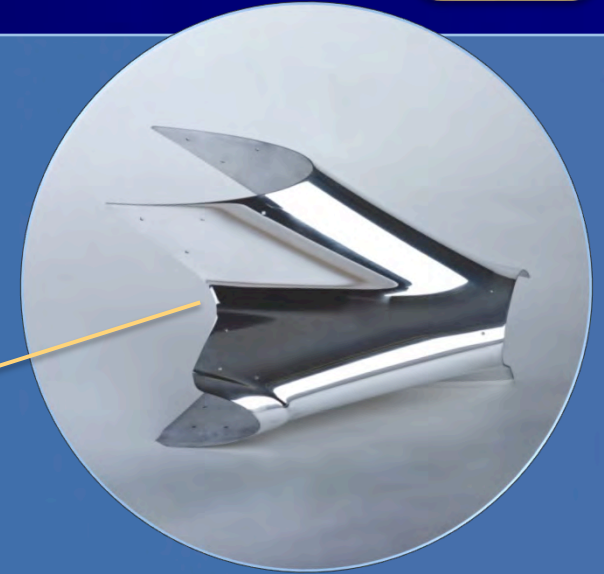




# Aluminum

AI

**Superform** is producing this component for Boeing advanced-technology winglets being used for the first time on the new Boeing 737 Max airliner.







# Aluminum

AI

**Superform** is producing complex bootlid inner and outer parts for the new Ferrari California T sports car.







# Aluminum



**Superform** makes complex-shaped components for high-technology **medical equipment**, including Siemens MRI scanners (above) and Varian linear accelerators for radiation therapy (right).

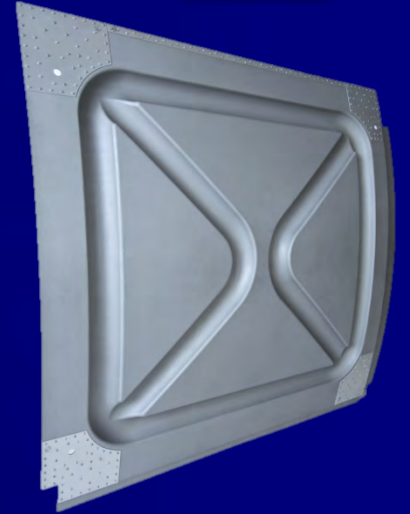




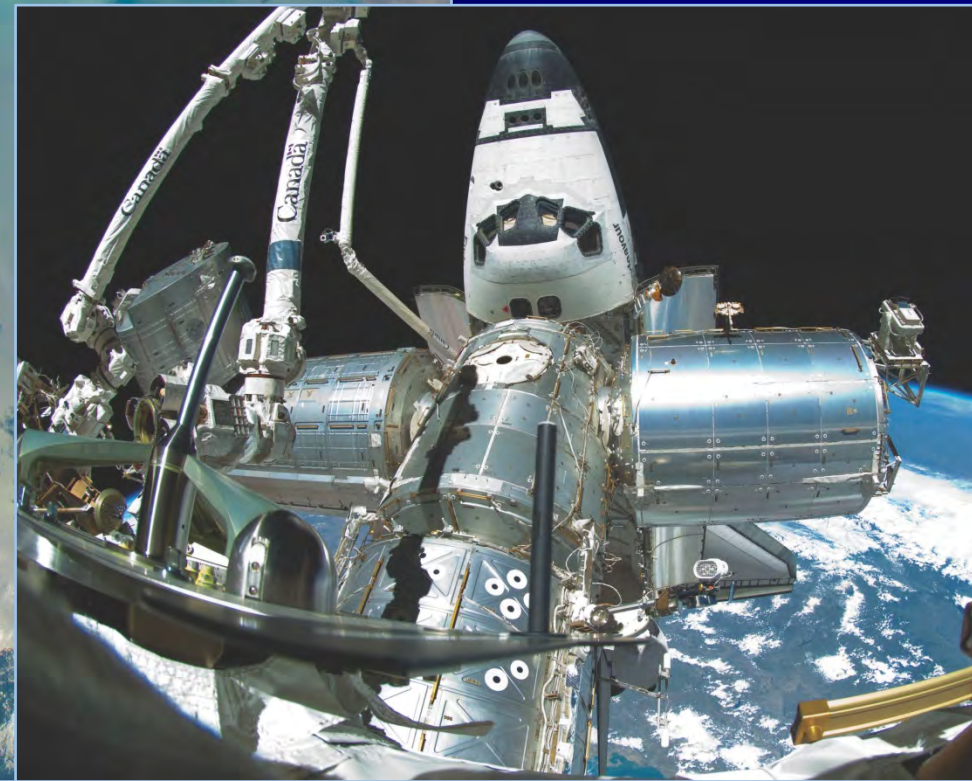
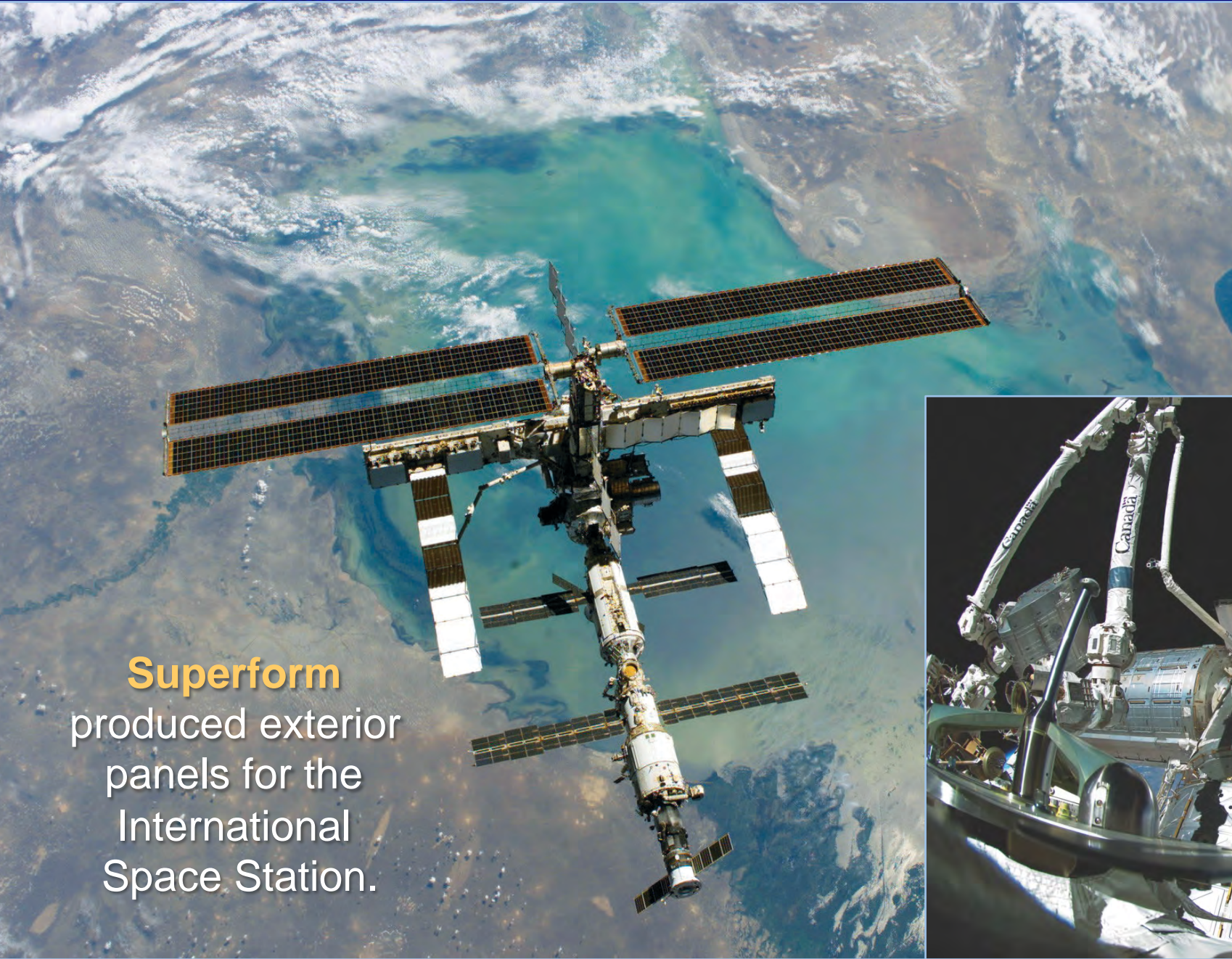
LUXFER GROUP

# Aluminum

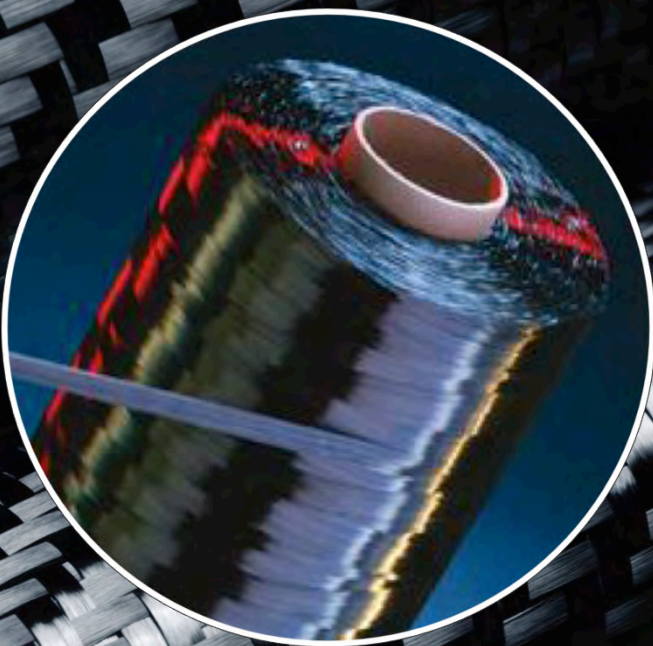
AI



**Superform**  
produced exterior  
panels for the  
International  
Space Station.



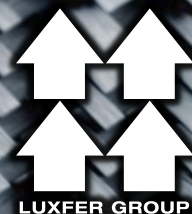




# Composites



**Luxfer is known worldwide as an innovator  
in the use of carbon composite materials  
for high-pressure gas containment.**



LUXFER GROUP





# Composites



Luxfer is the world's **largest** manufacturer of high-pressure **composite cylinders**, both small and large.







# Composites



Our **highly automated** composite cylinder manufacturing facility in Riverside, California.





# Portable composites



Luxfer is the global leader in **portable SCBA cylinders** for firefighters and other first-responders. We offer the world's **highest-pressure** SCBA cylinder, as well as the world's **lightest-weight** SCBA cylinder. We make these products in the USA, France and China.





# Portable composites



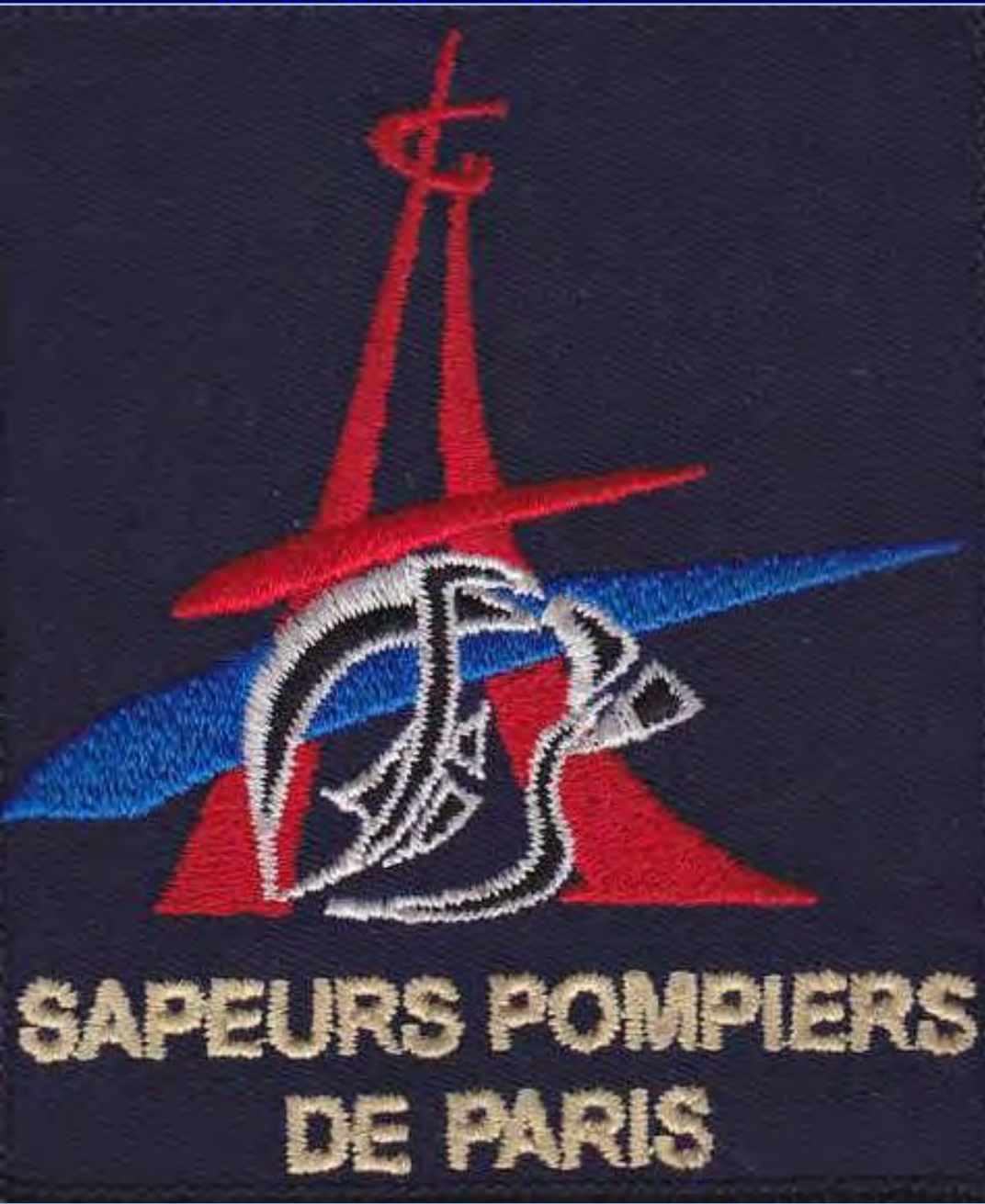
Luxfer enjoys **long-term relationships** with the 'Big 3' manufacturers of SCBA units. We often collaborate with them to develop new products.

2014 was a difficult year for all three, and thus for Luxfer, because of delayed regulatory approvals in the USA for their new SCBA kits. However, most kits were finally approved late in the year, and the market has been **steadily recovering** thus far in 2015.





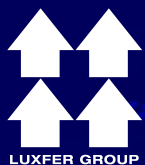
# Portable composites



Despite 2014 problems of the North American SCBA market, we received the good news late in the year that our products will soon be in service with the **Paris Fire Brigade**, the largest fire department in Europe.







# Portable composites



## *Innovation in healthcare*

Luxfer also makes portable composite cylinders for **medical oxygen**. Our exclusive **L7X 300-bar** (1,450-psi) products were featured at the recent **Medica** show in Germany. With liners made from our proprietary Luxfer **L7X<sup>®</sup>** aluminum alloy, these are the **lightest-weight** high-pressure oxygen cylinders in the world.



- More usable gas per cylinder.
- Ultra-lightweight package.
- Greater patient autonomy.
- Fewer patient visits per year.
- Reduced logistical costs.





# Portable composites



## *Innovation in healthcare*

*In development: **Portable medical oxygen delivery system.***  
We are now manufacturing required samples of the market-ready version of our new **lightweight, ergonomic, long-lasting** oxygen delivery system. Testing of these samples will support our request for **CE marking** before the end of 2015, and we expect to begin selling these units in Europe in 2016. This new system will **add value** to our existing medical market sales.







# Composites



## *Migrating technologies*

Ultra-lightweight portable  
composite life-support  
cylinders



Large CNG  
systems  
for buses  
and trucks



Large gas  
transportation  
modules







# Large composites



Luxfer now manufactures a wide range of **large composite cylinders** for containment of alternative fuels (AF), including **compressed natural gas (CNG)** and **hydrogen**.

These carbon composite cylinders include both **Type 3** (aluminum-lined) and larger-diameter **Type 4** (polymer-lined) cylinders used to contain fuel for trucks and buses. Both cylinder types are also used to store and transport CNG and other alternative fuels, as well as other bulk gases.



*Luxfer AF cylinders are marketed under the brands G-Stor® Pro (Type 3), G-Stor® Go (Type 4) and Dynecell® (for hydrogen).*





# Large composites



**SUB161**<sup>®</sup>  
CONNECTING GAS TO MARKET



## ‘Virtual pipeline’ joint venture

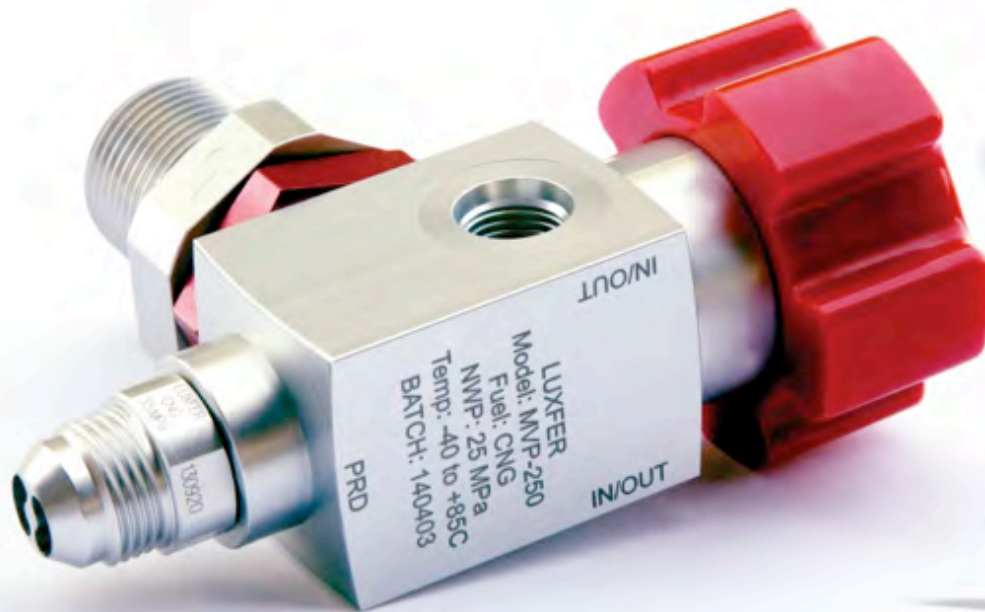
***Road-trains** in Western Australia could save power plants up to **30%** versus diesel, with **27%** lower CO<sub>2</sub> emissions.*

As announced in our Q2 report released August 5th, Luxfer has invested in the recapitalization of **SUB161**, our virtual pipeline customer in **Western Australia**. We invested the equivalent of \$4m and some AF assets (modules like those shown above) for a **26.5% stake** in the business. We have appointed a director to the board, and we are treating the investment as a **joint-venture operation**. Luxfer and SUB161 are now working together on proving virtual pipeline capability.





# Large composites



ONE-TURN VALVE



HIGH-FLOW PRD



QUARTER-TURN VALVE

To complement our range of large **Type 3** and **Type 4** composite cylinders, Luxfer has launched its new line of in-house-developed **AF accessories** for CNG, including our exclusive **high-flow valves** that speed up fueling and defueling and **high-flow PRDs** that enhance safety. We also make a full line of accessories for **hydrogen** containment.





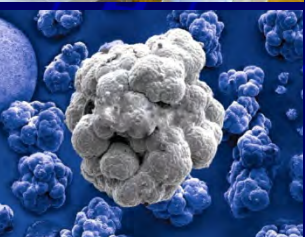
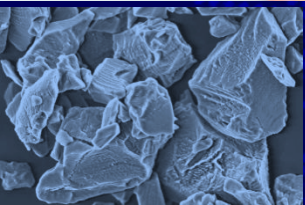
# New product pipeline

- Luxfer has a long corporate **heritage of innovation** and a comprehensive material science **knowledge bank**.
  - After the 1996 management buy-in, we stressed **manufacturing excellence** and **IP protection**.
  - We subsequently focused on **strategy mapping** and **high-growth end-markets**.
  - We have **multi-year development** programs, most often with **partners**.
  - We usually need to obtain **approvals** and **certifications**.
- 
- We are working on a pipeline of **new products** for commercialization through 2017—with more to come.





# The Luxfer advantage

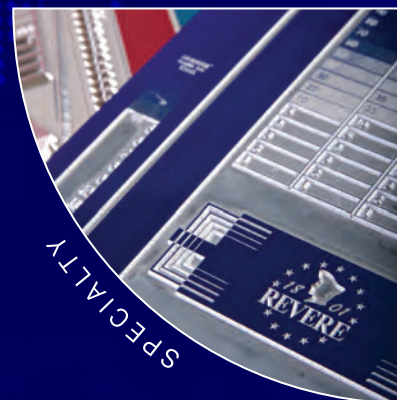


- Our **global position**, which enables us to service large global customers and benefit from developing economies.
- Our long-term, positive relationships with many **blue chip** customers.
- Our deep material science **expertise** and proven ability to **collaborate** with customers to develop **next-generation** technologies.
- Our ongoing **research**, including work with **leading universities** around the world.
- Our product, market and geographic **diversification**.
- Our strong positions in numerous **high-growth** end-markets.
- Our robust **business model** and strong **balance sheet**.
- Our strong **new product pipeline**.



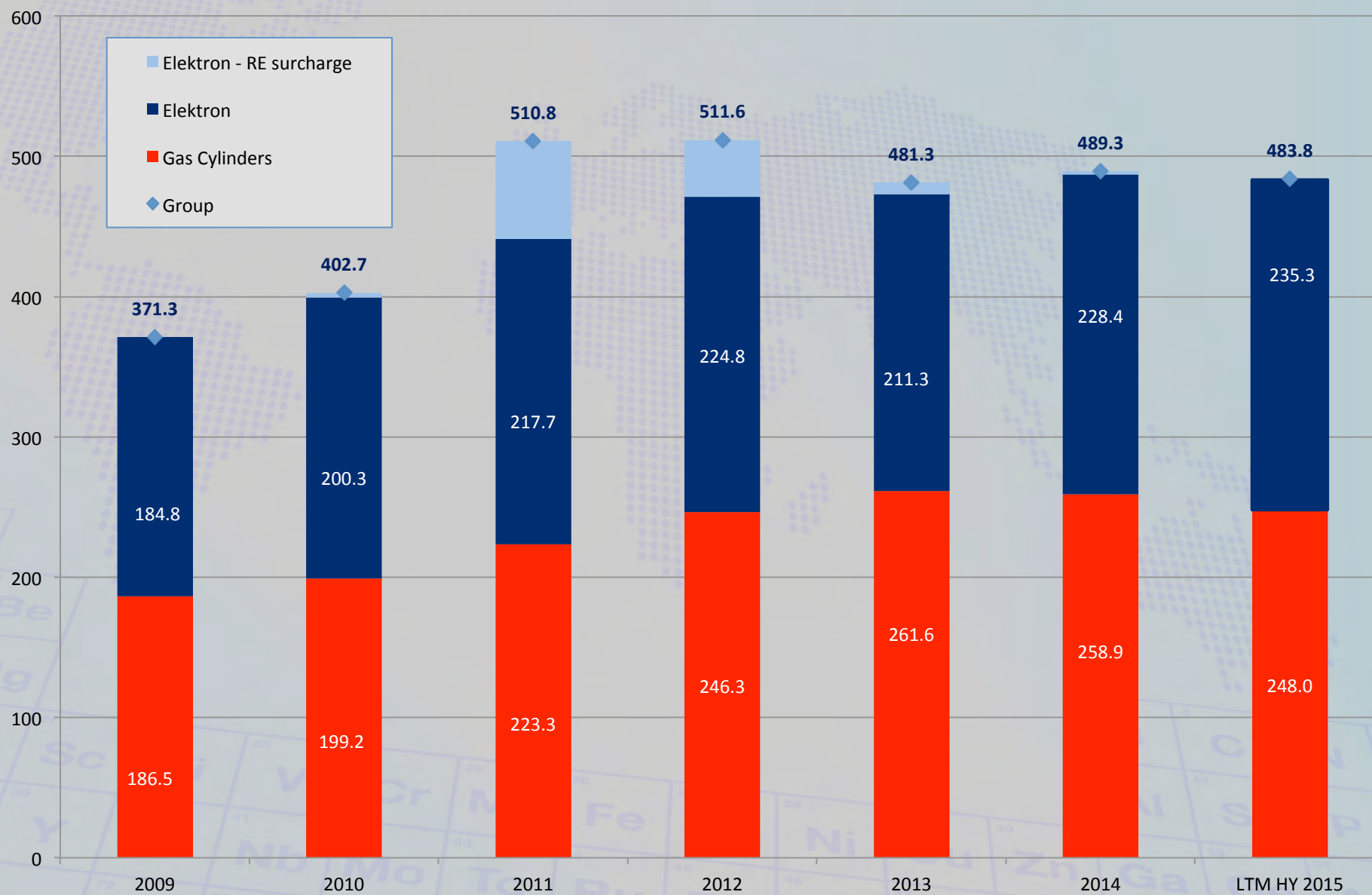
# Group Finance Director Andy Beaden

## FINANCIAL REVIEW





# Group revenue 2009 to HY 2015







# Elektron Division

	Elektron Q2 \$M	YTD \$M
<i>Net revenue</i>	<i>55.4</i>	<i>111.7</i>
<i>RE surcharge</i>	<i>0.6</i>	<i>1.5</i>
<b>2014 Revenue analysis</b>	<b>56.0</b>	<b>113.2</b>
Changes in period:		
FX translation	(3.2)	(6.4)
Rare earth surcharge	(0.6)	(1.5)
Luxfer Magtech	6.8	13.9
Trading movements	1.1	(0.6)
<i>Net revenue</i>	<i>60.1</i>	<i>118.6</i>
<i>RE surcharge</i>	-	-
<b>2015 Revenue analysis</b>	<b>60.1</b>	<b>118.6</b>
Trading variance	1.9%	(0.5%)

- Underlying Q2 revenue increased by \$1.1m or 1.9% compared to Q2 2014.
- Luxfer Magtech added \$6.8m.
- FX transaction differences reduced revenue by \$0.8m.
- Higher demand for recycling and photo-engraving products offset lower sales of aerospace alloys.
- Improved demand for military powders.
- Zirconium industrial catalyst sales were up on Q2 2014, offset by lower automotive sales.



# Gas Cylinders Division

	Gas Cylinders	
	Q2	YTD
	\$M	\$M
<b>2014 Revenue analysis</b>	<b>65.9</b>	<b>132.0</b>
Changes in period:		
FX translation	(4.2)	(9.6)
Trading movements	1.0	(1.3)
<b>2015 Revenue analysis</b>	<b>62.7</b>	<b>121.1</b>
Trading variance	1.6%	(1.1%)

- **Q2 underlying revenue (excluding FX translation) up \$1.0m or 1.6% on Q2 2014.**
  - AF revenue down \$1.3m or 13.6%.
    - U.S. AF revenue up \$0.4m or 10%.
  - Non-AF revenue up \$2.3m or 5.8%.
  - Demand for SCBA composite cylinders was strong, and there was some improvement in medical composite demand in Europe versus Q2 2014.
  - Superform revenue improved in Q2 2015, with increases in both tooling and formed-goods sales.
  - Aluminum sales down on Q2 2014.



# Group revenue – HY 2015 analysis

	Elektron		Gas Cylinders		Group	
	Q2	YTD	Q2	YTD	Q2	YTD
	\$M	\$M	\$M	\$M	\$M	\$M
<i>Net revenue</i>	<b>55.4</b>	111.7	<b>65.9</b>	132.0	<b>121.3</b>	243.7
<i>RE surcharge</i>	<b>0.6</b>	1.5	-	-	<b>0.6</b>	1.5
<b>2014 Revenue analysis</b>	<b>56.0</b>	113.2	<b>65.9</b>	132.0	<b>121.9</b>	245.2
Changes in period:						
FX translation	<b>(3.2)</b>	(6.4)	<b>(4.2)</b>	(9.6)	<b>(7.4)</b>	(16.0)
Rare earth surcharge	<b>(0.6)</b>	(1.5)	-	-	<b>(0.6)</b>	(1.5)
Luxfer Magtech	<b>6.8</b>	13.9	-	-	<b>6.8</b>	13.9
Trading movements	<b>1.1</b>	(0.6)	<b>1.0</b>	(1.3)	<b>2.1</b>	(1.9)
<i>Net revenue</i>	<b>60.1</b>	118.6	<b>62.7</b>	121.1	<b>122.8</b>	239.7
<i>RE surcharge</i>	-	-	-	-	-	-
<b>2015 Revenue analysis</b>	<b>60.1</b>	118.6	<b>62.7</b>	121.1	<b>122.8</b>	239.7
Trading variance	1.9%	(0.5%)	1.6%	(1.1%)	1.7%	(0.8%)



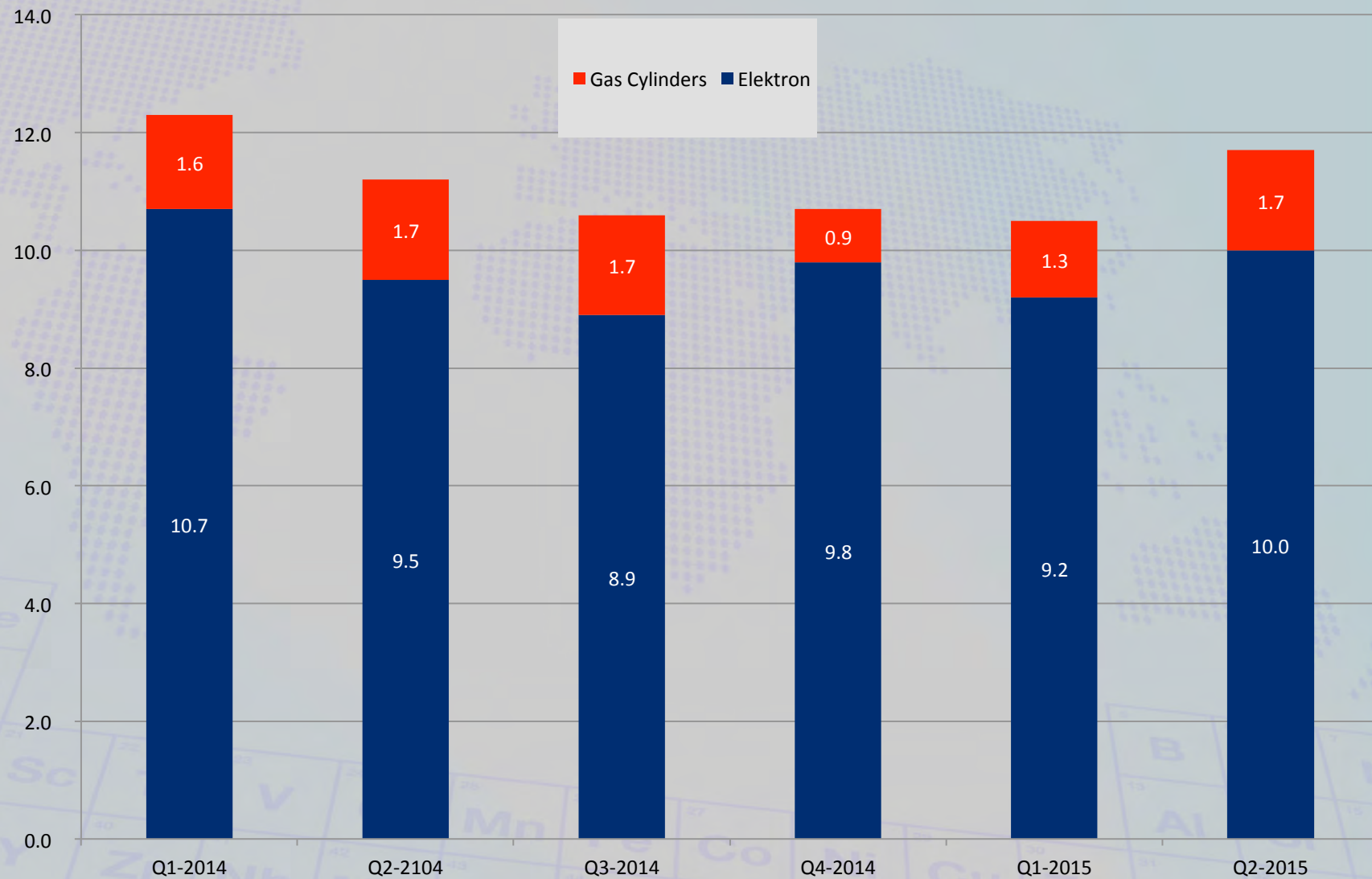
# Divisional & Group trading profit



*N.B. trading profit is Luxfer's IFRS 8 segment profit measure.*

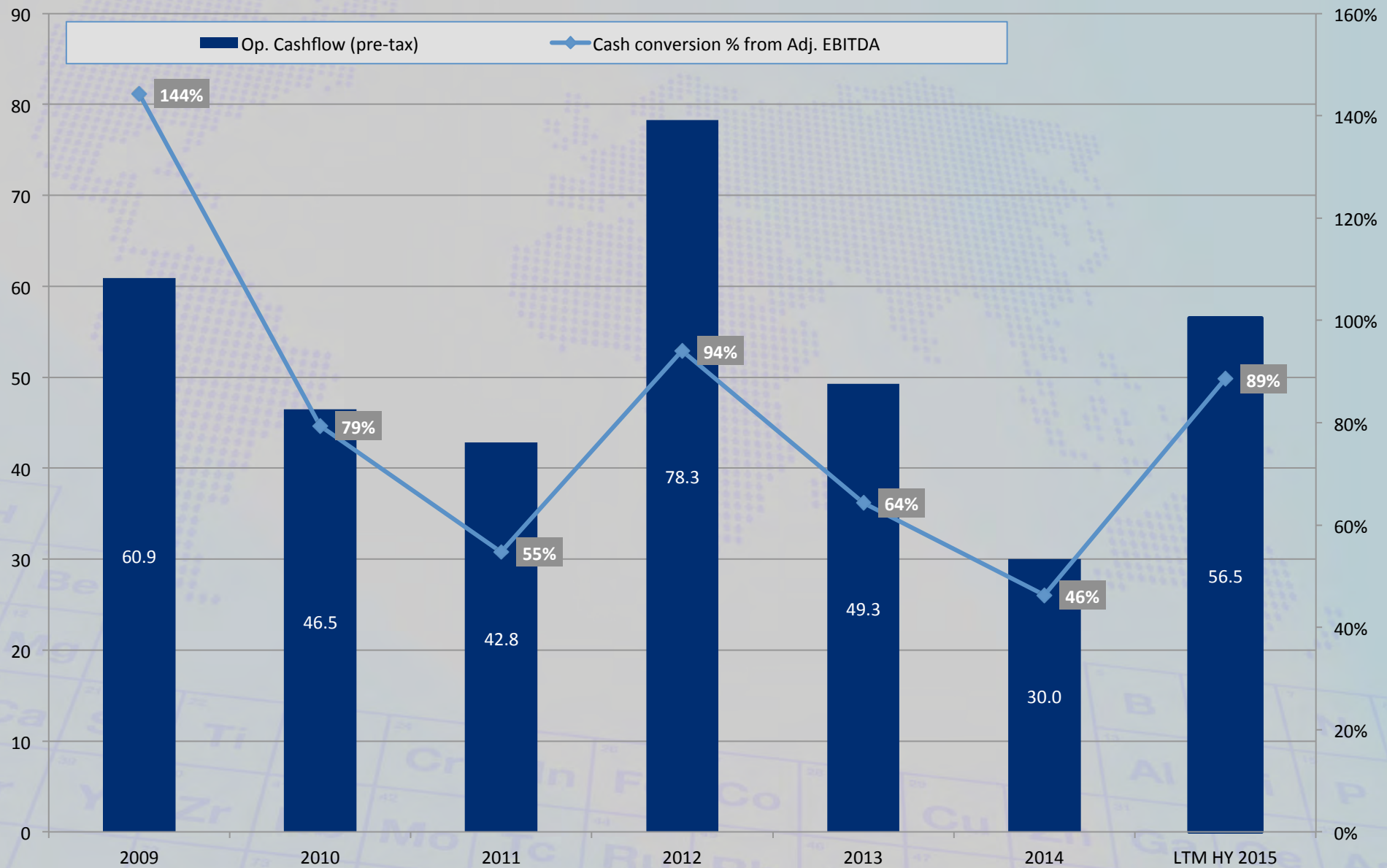


# Divisional segment profit by recent quarters



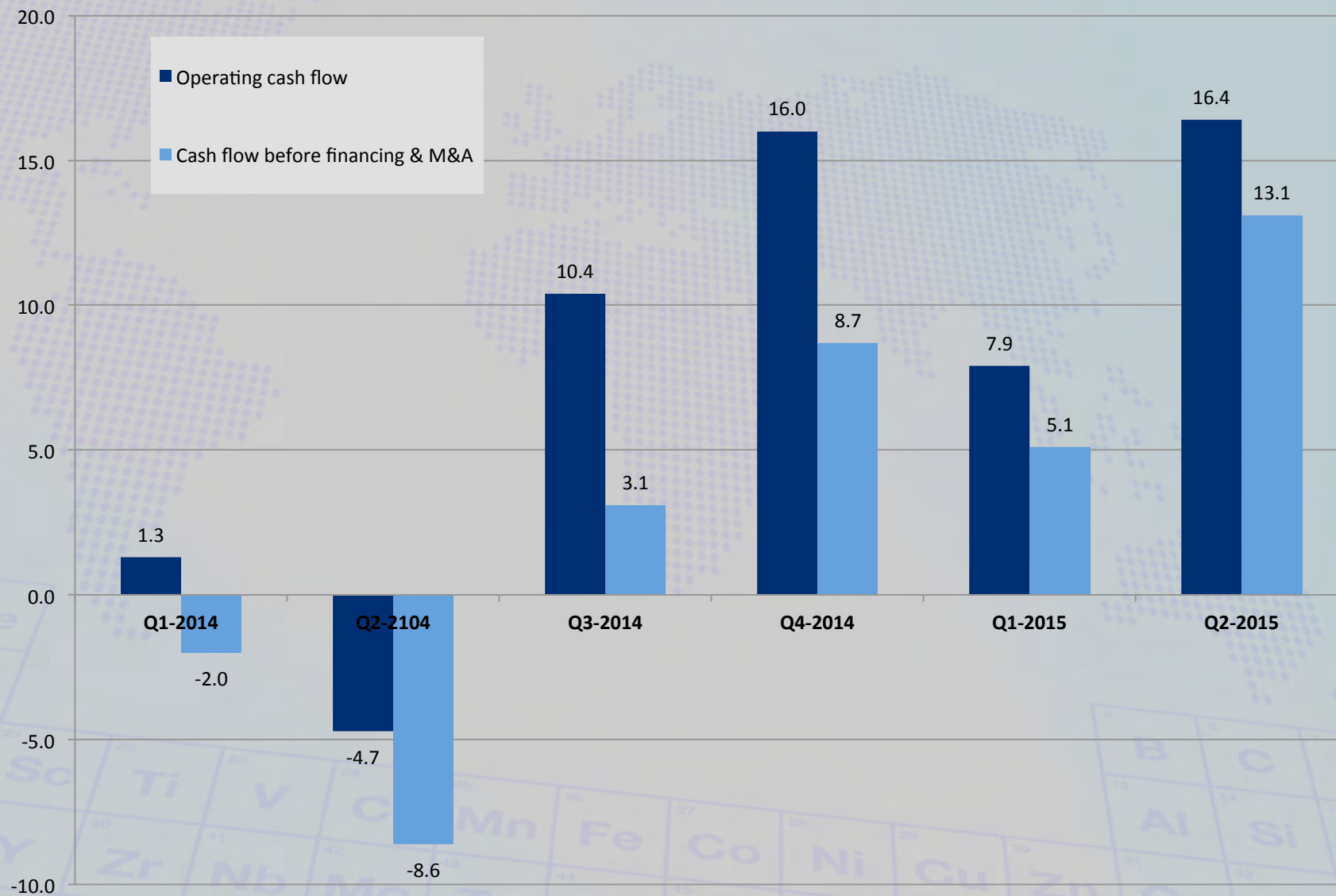


# Operating cash flow





# Cash flow by quarter





# Financial position as at June 30, 2015

- Regular dividend: 10 cent per quarter, 40 cent per annum.
- Debt gearing: 1.5x Adj. EBITDA.
- Net debt as at June 30, 2015: \$98.4m.
- Banking facilities: committed \$150m, expandable to \$200m.
- U.S. private placement debt \$90m, expandable to \$140m.
- Gross assets of \$484.1m.





# Thank you

