




Flying Safely and Efficiently with Eaton



Powering Business Worldwide



At Eaton, our job is creating the world's best aerospace products and technologies for commercial, military and business aircraft.

Eaton views each customer relationship as an opportunity to build on our 100-year heritage of innovation and manufacturing excellence.

Eaton's broad portfolio of hydraulic, fuel, conveyance and actuation products provides a single source for power management. We work with our customers to develop safe, reliable and efficient solutions for aircraft, with an emphasis on lower lifecycle costs, system integration, optimized system controls and reduced weight.

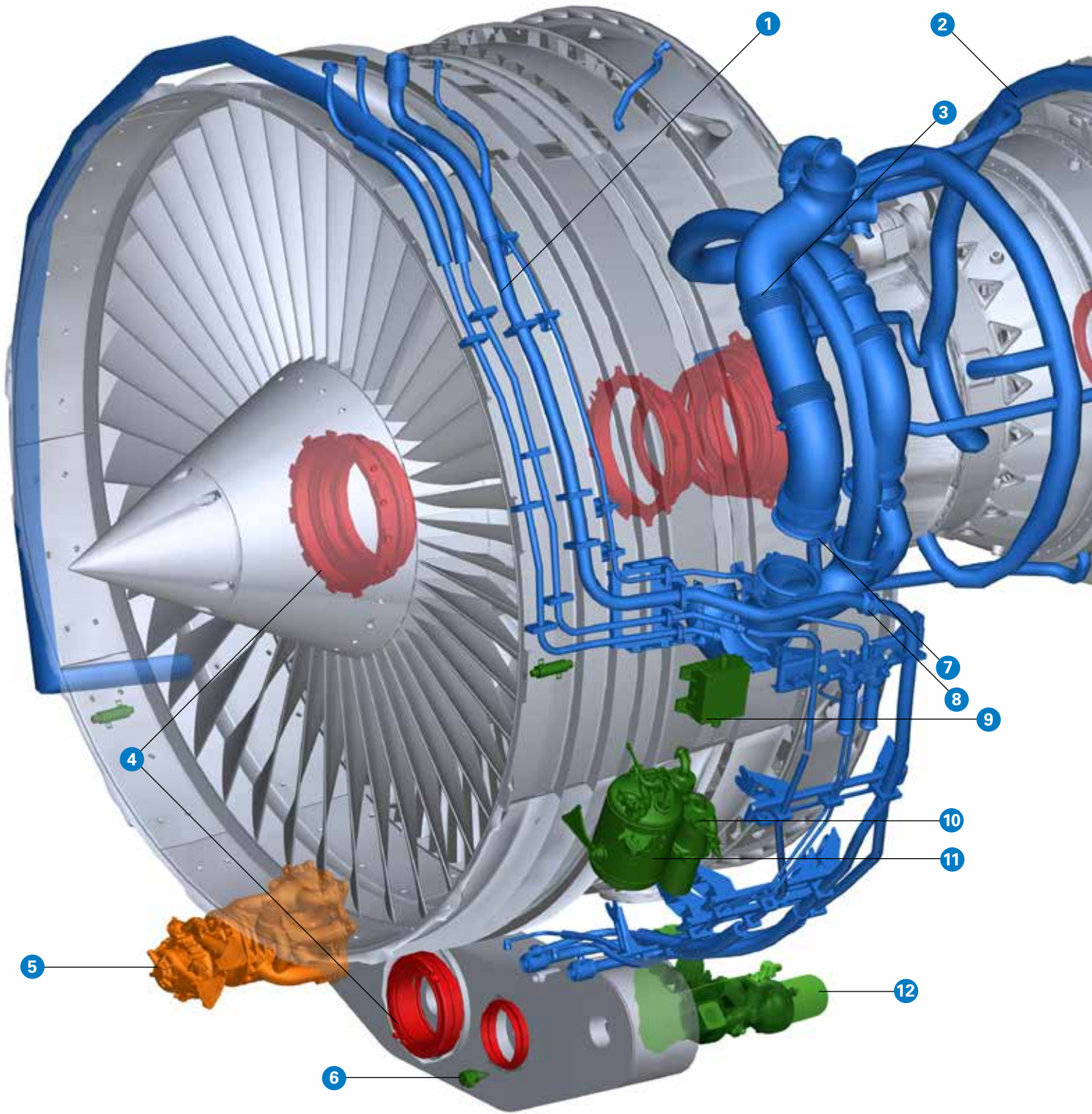
Eaton components lead the industry in reliability and can be found on virtually all major commercial and military aircraft platforms. Eaton extends its component excellence to the growing aftermarket sector including maintenance, repair and overhaul services that optimize aircraft performance and lifecycle cost management.

Our focus on innovation is defining the future of aerospace. Eaton is pioneering the use of lighter, stronger composite materials that are improving fuel efficiency and emissions reduction. Eaton designs fuel pumps, hydrodynamic seals and debris-monitoring products that are driving major advancements in jet-engine performance. And Eaton's industry-leading expertise in fuel-inerting technology and inerting-system certification is boosting aircraft safety.

Please visit Eaton at www.eaton.com/aerospace for additional information on products and services, distributors, a literature library, customer success stories and more.



Engine Solutions





Eaton has extensive experience in developing solutions for all sizes of turbofan, turboshaft and turboprop engines. Eaton has recently designed the engine build-up (EBU) for several next-generation engines, including Trent XWB, Rolls-Royce EFE (Trent 1000), BR725, Trent 900, and the Tay 611-8C, each customized to meet a distinct set of performance specifications and customer requirements.

Eaton's EBU and external conveyance products comprise

tubes, hoses, ducts, brackets and quick disconnects, all engineered for improved weight savings, durability and ease of assembly. Eaton provides integrated fuel, hydraulic, oil and pneumatic conveyance packages that optimize the significant number of engine interfaces. Having a single, integrated supply source mitigates overall risk for customers.

Ninety percent of the world's engines use Eaton's sealing solutions, including static and dynamic seal technology,

and 80 percent of global commercial transport flight hours rely on Eaton's main engine fuel pumps. Eaton also manufactures lubrication system components and the industry's most sophisticated oil monitoring systems.

Eaton continues enhancing its onsite EBU design integration capabilities and enabling lighter, smaller footprint installations. Eaton's advanced, thermally efficient pumping solutions improve overall fuel system efficiency while maintaining reliability.

1 Fluid Conveyance Lines



2 Pneumatic Duct



3 Flexible Joints



4 Seals



5 Engine Fuel Pump



6 Chip Detectors



7 Rigid Joints



8 Rynglok®



9 Signal Conditioning Unit



10 Lubriclone® Separator



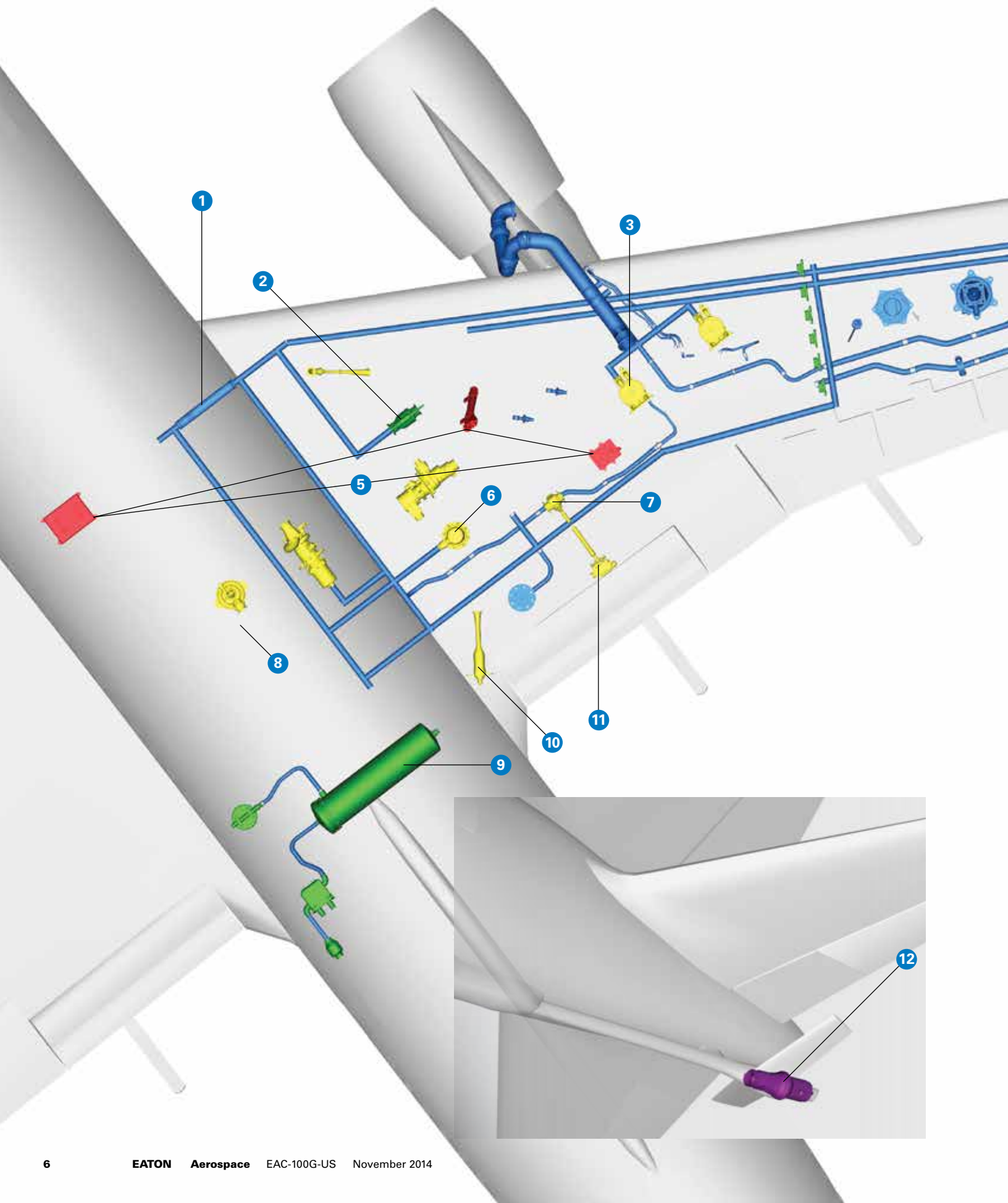
11 Lube Oil Tank

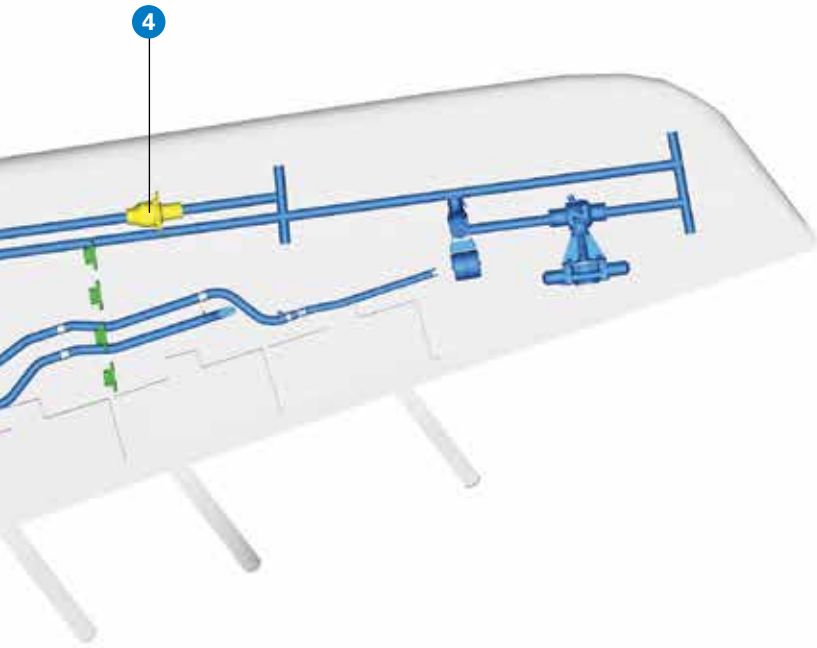


12 Lube/Scavenge Pump



Fuel & Inerting Systems





Eaton's dual expertise in fuel and inerting systems has led to ground breaking approaches in system integration. Through our involvement in the Boeing 787 program, Eaton became the industry's first composite-wing certified fuel system supplier and the first to certify a multi-tank inert gas distribution system.

For fuel systems, Eaton offers an integrated solution from the refuel adapter to engine inlet, including conveyance installation. This capability allowed Eaton to reduced the weight of its system by 46 percent over the previous model. By incorporating modern control systems, Eaton achieved a six-fold improvement in the

reliability of its new integrated fuel system over the previous aircraft model.

Eaton is the world's largest supplier of electric fuel pumps and aerial refueling pumps. Eaton's electric pumps are available for a complete range of electrical supplies, including multiple variable frequency options. They are updated to meet the latest FAR 25.981 regulatory requirements, and just as all Eaton products, they offer exceptional reliability.

Eaton is developing solutions to meet the industry's growing focus on water management to increase safety and reduce maintenance costs. Eaton also will offer integrated sensing from digital probes to enhance efficiency.

1 Lightning Isolators



2 Check Valve



3 Tank-Mounted Electric Pumps



4 Hydro-Mechanical Valves



5 Digital Gauging and Controller



6 Canister-Mounted Electric Pumps



7 Pedestal and Remote-Actuated Ball Valves



8 Aerial Refueling Transfer Pump



9 Nitrogen Generation



10 Feed, Scavenge & Transfer Jet Pumps



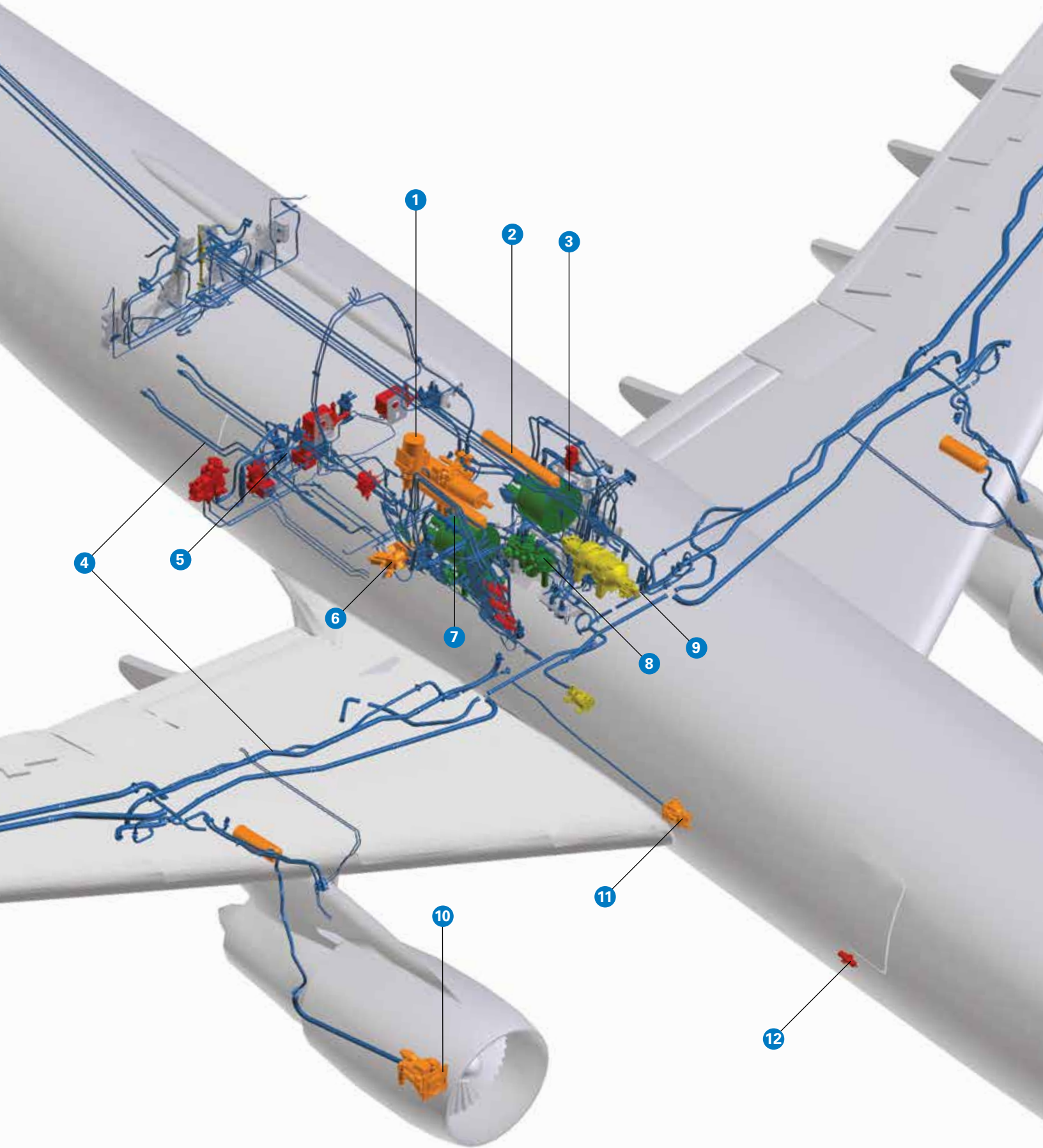
11 Single and Dual-Motor Actuators



12 Aerial Refueling Nozzle



Hydraulic Systems





Our hydraulic equipment expertise reaches back to the early days of aerospace, when Eaton designed many of the first hydraulic components used in military and commercial aviation. Today, Eaton offers one of the industry's largest portfolios of hydraulic power generation and distribution products.

Over the decades, Eaton has built and maintained a significant market share by delivering highly reliable and technically innovative products. Eaton offered the first 5,000-psi hydraulic system to the commercial transport market and the first 5,000-psi certified commercial hose. Eaton's hydraulic pumps are

standard on many modern aircraft platforms and are a leading choice for retrofits and upgrades.

Eaton's broad portfolio of hydraulic components provides customers with the benefits of lower weight and ease of functional integration. From a system perspective, Eaton products deliver higher reliability and power density, along with optimized integration with conveyance systems. This enables greater installation flexibility.

Eaton is expanding its hydraulic capabilities by exploring the potential of distributed architecture, combining hydraulic and electric power solutions, and integrating power-demand logic.

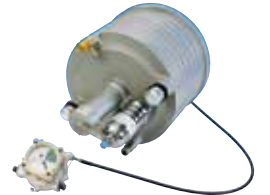
1 AC Electric Motor-Driven Pump



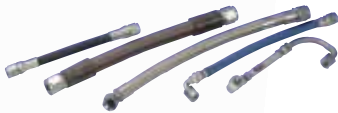
2 Maintenance Free Accumulator



3 Reservoir



4 Tubes and Hoses



5 Pressure Switch



6 Power Transfer Unit



7 Fire Shutoff Valve



8 Filter Module



9 Emergency Generator Motor



10 Engine-Driven Pump



11 Ram Air Turbine Pump



12 Hydraulic Power Package



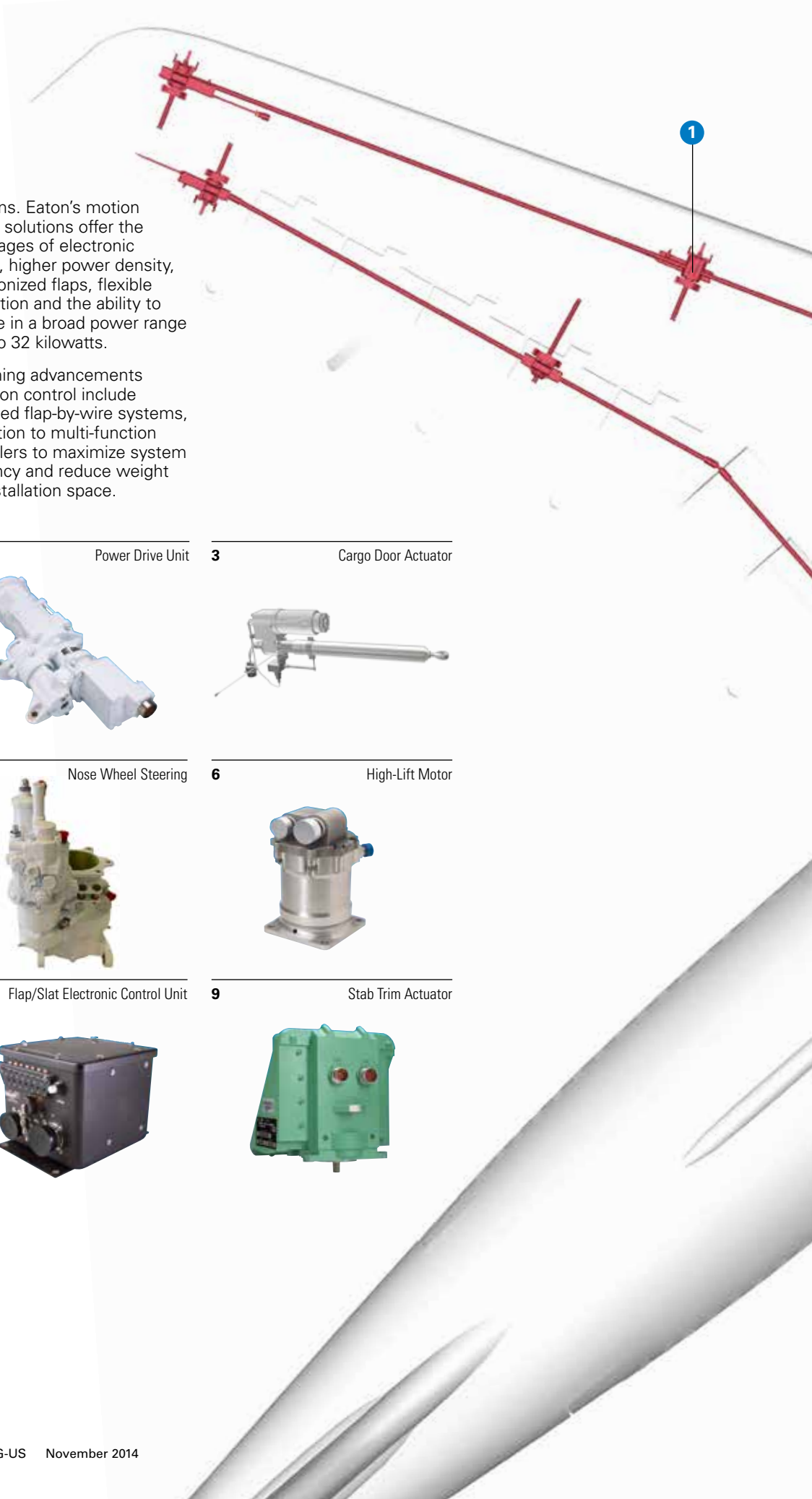
Motion Control

Eaton is an industry leader in motion control solutions that optimize reliability, weight savings and lower lifecycle costs. Eaton innovations include the industry's first steer-by-wire system and the first microprocessor-controlled aircraft steering system.

By combining our extensive capabilities and resources in hydraulic and electro-mechanical actuation, Eaton can assist customers with motion-and-control trade studies and offer optimum

solutions. Eaton's motion control solutions offer the advantages of electronic rigging, higher power density, synchronized flaps, flexible installation and the ability to operate in a broad power range of up to 32 kilowatts.

Upcoming advancements in motion control include advanced flap-by-wire systems, in addition to multi-function controllers to maximize system efficiency and reduce weight and installation space.



1 Slat Actuators



2 Power Drive Unit



3 Cargo Door Actuator



4 Emergency Passenger Door Actuator



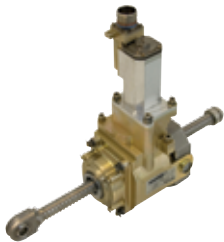
5 Nose Wheel Steering



6 High-Lift Motor



7 Flap Actuators

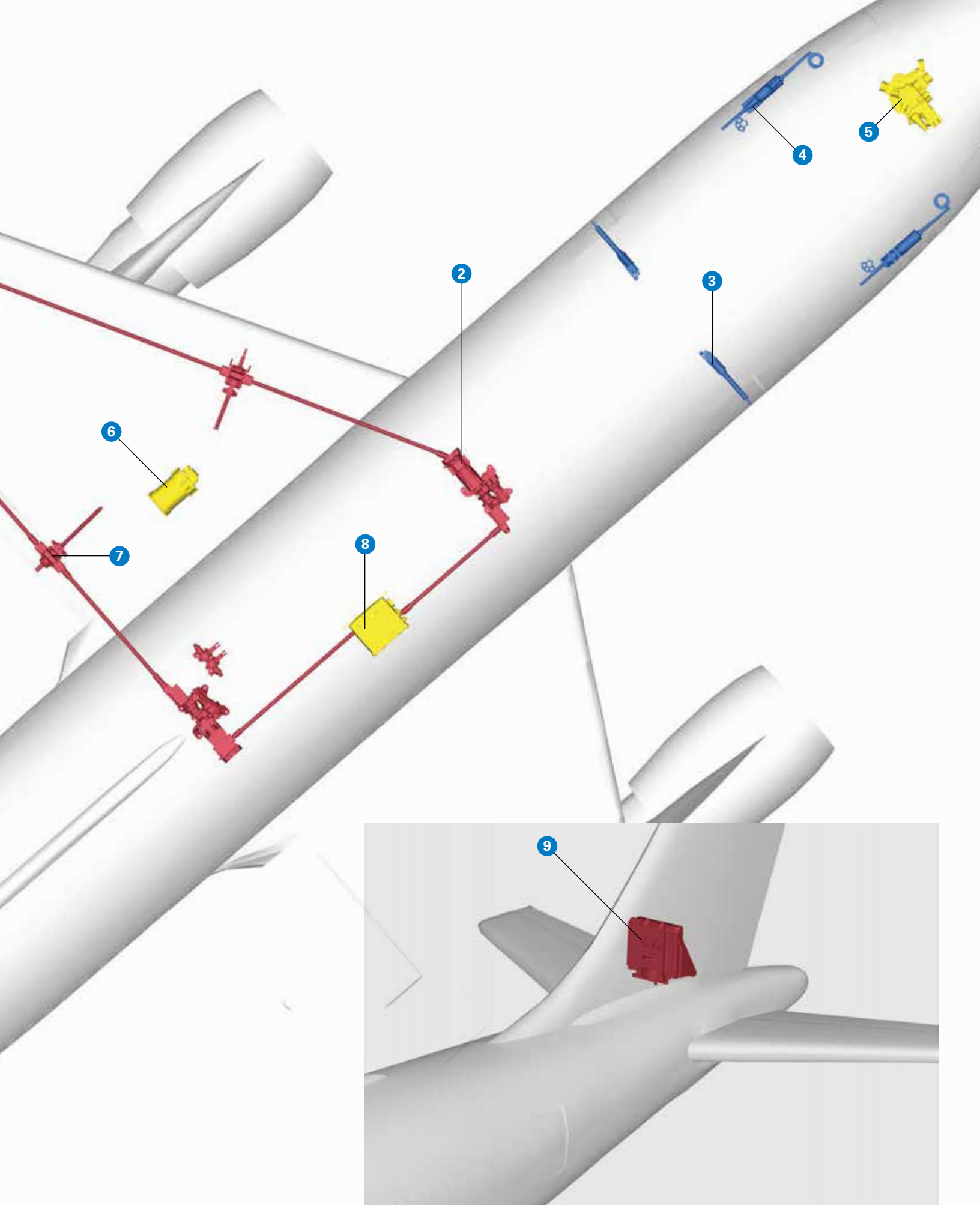


8 Flap/Slat Electronic Control Unit



9 Stab Trim Actuator





World-Class Lifecycle Program Management





Eaton is a lifecycle partner, providing comprehensive program management support through all phases of product design, development, manufacturing, deployment and customer support. Eaton's significant capabilities and resources include:

Customer-focused, fully integrated program teams.

Eaton works hand-in-hand with program development teams to design and customize a broad range of aerospace products and solutions.

Systems engineering strength. Engineers approach each project with in-depth systems knowledge and a holistic approach to systems integration.

Inclusive supplier integration. Involving suppliers in all phases of program management ensures high-quality products that deliver the desired results for customers.

Clear and consistent communication. Eaton identifies points of contact throughout program teams and delivers frequent, transparent updates to all stakeholders.

Fully integrated master schedules. Eaton provides a complete work breakdown structure for programs with start, finish, resources required, dependencies, critical path analyses and schedule reserve.

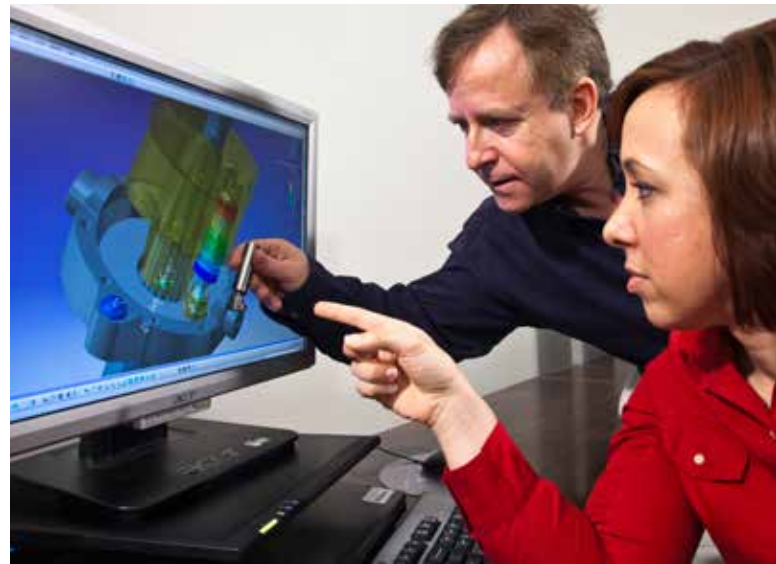
Lifecycle financial ownership. Eaton products are designed to optimize long-term value and cost savings for customers.

Design for Six Sigma. Eaton processes ensure the highest levels of product performance, quality and reliability.

Robust risk, issues and opportunities management. Eaton's comprehensive risk management processes include business risks, higher-level program risks and opportunities, with risk-mitigation and opportunity capture actions identified and tracked.

Next-Generation Technology





Innovative technologies and solutions for next-generation aircraft are taking shape all around the world. That's why Eaton continues to expand its global technology development capability to serve new market segments and explore exciting growth opportunities.

Eaton operates Innovation Centers in the United States, Europe, China and India, all focused on developing improved power-management solutions that make electrical, hydraulic and mechanical power operate more efficiently, effectively, safely and sustainably.

Eaton's advancements in the production of safer, lighter and stronger composite materials are leading the way to significant

improvements in weight savings and fuel efficiency. Composite products include fluid-conveying components for fuel, hydraulic, coolant and engine systems.

With its extensive product portfolio and technical expertise, Eaton is uniquely positioned to develop new, customized component and system solutions for a broad array of aerospace applications. And Eaton continues to make significant investments in research and development to support the industry's push for lighter and more fuel-efficient aircraft.

Global Customer Support





Eaton's extensive global structure provides customers with 24/7 support to respond to all of their needs, from supply chain to repair services to improved lifecycle management. Around the world, Eaton's field teams are on the front lines of service, offering solutions that help commercial and military customers reduce costs, improve aircraft performance and reliability, and increase time on wing.

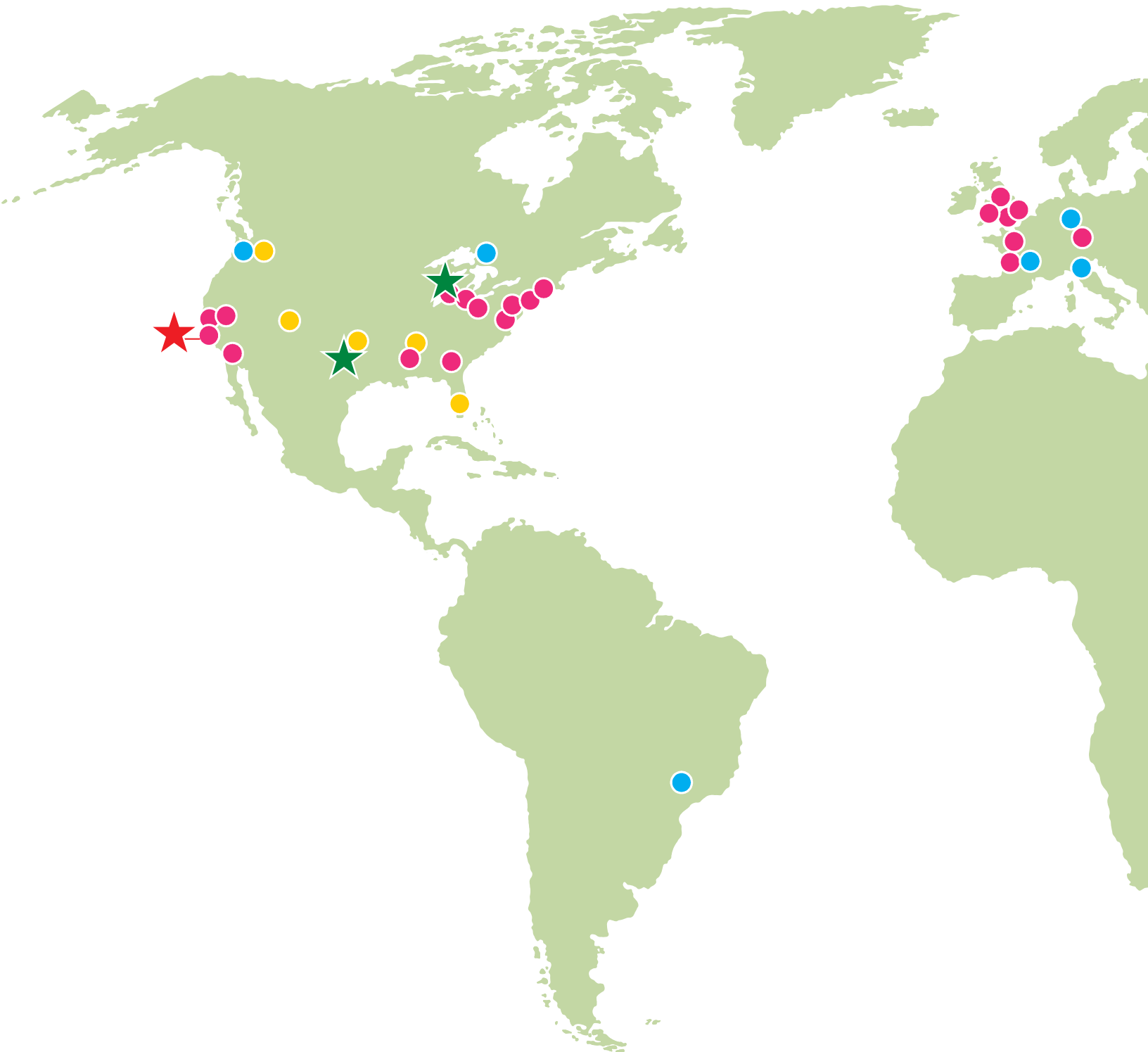
With a focus on emerging markets, Eaton is opening more channels of support in the Asia Pacific, the Middle East and South America. Eaton has established six regional support centers to bring repair and service capabilities closer to high-growth areas. In addition to operating multiple Innovation Centers, Eaton's Engineering Center in Pune, India, has become a major product engineering, design and development center for Eaton's customers.

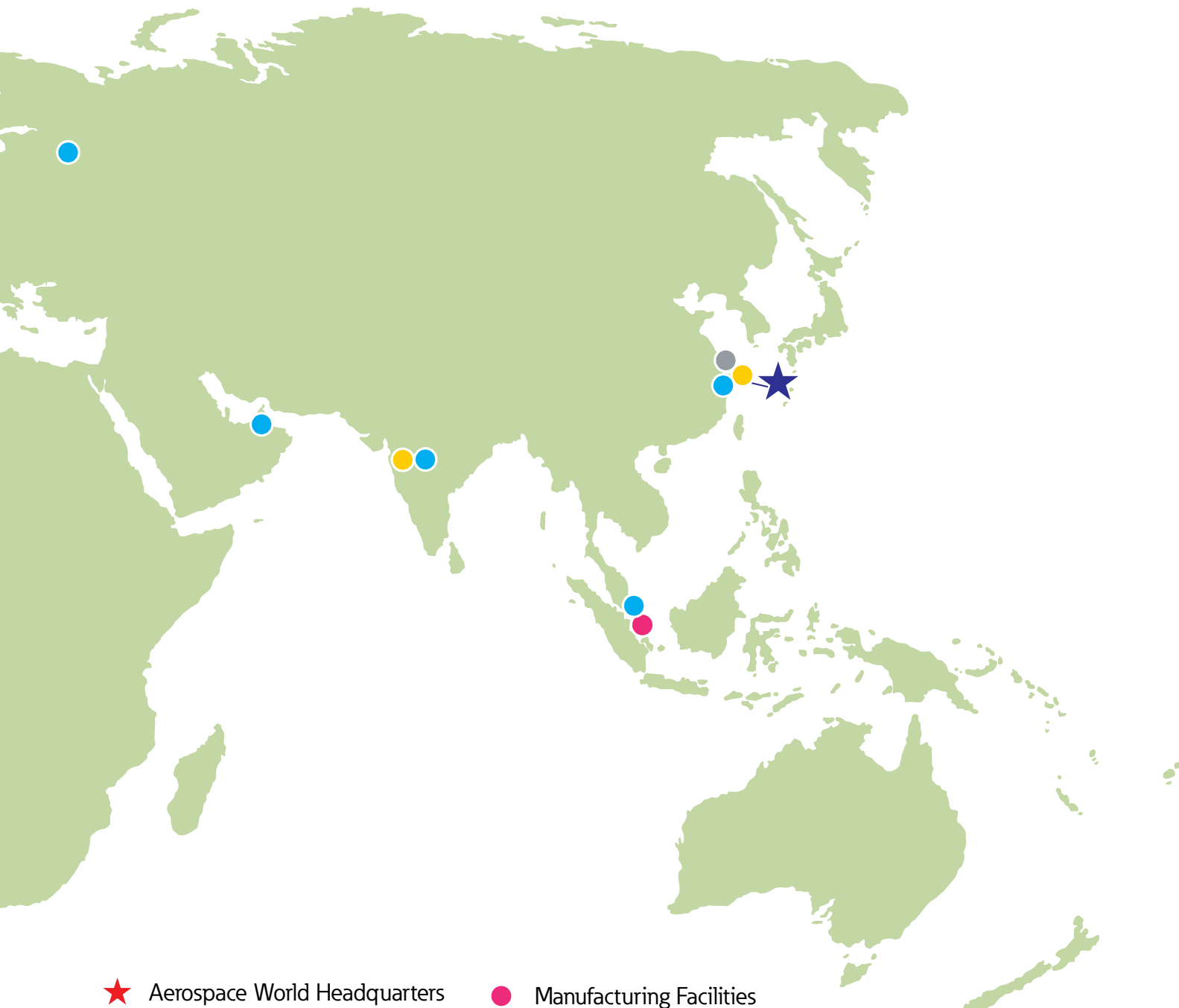
Eaton also continues to support program execution worldwide — including seamless entry into service — for a number of aircraft and jet-engine development programs.

Eaton's unique regional alliances are bringing added value to commercial and military customers for integrated component support and logistics services, as well as maintenance and repair capabilities. Eaton's broad portfolio of components gives operators a full range of product packages with flexible pricing options that optimize lifecycle costs and improve aircraft availability.

With more than 60 years of success, Eaton's Aerospace Customer Support Conference continues to be an international benchmark event for the industry. Based on positive feedback and changing market trends, Eaton has added the China Aerospace Customer Support Conference to provide an informational forum for Eaton's expanding customer base in the Asia Pacific region.

Worldwide Locations





- ★ Aerospace World Headquarters
(Irvine, California USA)
- ★ Aerospace APAC Headquarters
(Shanghai, China)
- ★ Divisional Headquarters

- Manufacturing Facilities
- Sales & Support Offices
- Engineering Centers
- Eaton-SAMC Joint Venture

Aerospace Headquarters

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