Otis is the world’s leading manufacturer and maintainer of people-moving products, including elevators, escalators and moving walkways. Otis offers products and services in approximately 200 countries and territories, and maintains more than 1.9 million elevators and escalators worldwide.

Otis can be found in many of the world’s most iconic buildings. In 2016 Otis was selected to modernize elevators in Chicago’s Willis Tower, the tallest building in the United States by highest occupied floor.

Demonstrating its commitment to innovation, Otis increased its investment in research and development by 25 percent in 2016 and plans to double it over the next few years. The resources are directed at developing transformational technologies that deliver greater energy efficiency, enhanced service, and increased comfort, convenience and connectivity for passengers. As part of this effort Otis China will build a new engineering research center in Shanghai to develop new products and service technologies for the large China segment and other global markets. The center will include one of the world’s tallest above-ground test towers.

Otis is working on new digital tools and technologies that will transform its elevator service network and enable greater connectivity with customers. In 2016 Otis began equipping its 31,000 mechanics with sophisticated digital tools and applications that will use big data to drive condition-based monitoring and maintenance. Otis and UTC Climate, Controls & Security are exploring other opportunities to develop digital solutions for integrated, smart building equipment.

During the year Otis unveiled its new intelligent, connected elevator, the Gen2 Life. Based upon its proprietary Gen2 technology, the Gen2 Life offers higher energy efficiency, optimizes space requirements and enables greater connectivity for building owners and users. It also offers customers new interior design packages with more than 400,000 options.

Otis achieved a number of milestones in 2016, including the installation of the world’s longest rise double-deck elevator in South Korea’s Lotte World Tower, the country’s tallest building. The elevator can carry 54 passengers from the ground to an observation deck on the 121st floor in one minute. Otis also marked the sale of its 500,000th Gen2 elevator during the year, one of its most energy-efficient and best-selling elevators. Otis continued to be awarded contracts for major projects in China and India where the building market is especially large.

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Backed by more than 80 of the world’s most respected brands, UTC Climate, Controls & Security is at the forefront of developing digital products that can be connected to provide safety, comfort, convenience and greater productivity for a building’s occupants. At the same time, it builds on a legacy of innovation, continuing to deliver products that are energy efficient, environmentally responsible and cost competitive.

UTC Climate, Controls & Security promotes safer and smarter sustainable buildings with state-of-the-art fire safety, security, building automation, heating, ventilating, air-conditioning and refrigeration systems and services.

UTC Climate, Controls & Security continues to build momentum for long-term growth in an increasingly urban and connected world. It is backed by a portfolio of more than 80 leading brands, a strong global presence and a commitment to operational excellence. Innovation is a key differentiator. This business consistently invests to deliver state-of-the-art products and to enhance the performance of existing lines.

The company’s commitment to research and development can be seen in the 132 new products launched in 2016. Among them was Carrier’s new AquaEdge 19DV centrifugal chiller that offers excellent performance and leading efficiency with a next-generation, environmentally sustainable refrigerant. Carrier introduced the Côr home automation system, which enables homeowners to secure, control and remotely manage their homes’ most critical systems from a mobile app. Onity delivered its digital DirectKey mobile access solution, providing hotel guests a secure way to use their smartphone as a room key and access other controlled areas.

The company broke ground in transport refrigeration when U.K. food retailer Sainsbury’s became the first customer to take delivery of Carrier Transicold’s prototype natural refrigerant trailer unit. The new-generation system uses low global warming potential carbon dioxide refrigerant, a safe and non-ozone depleting gas that sets the standard for refrigerants and supports advances toward a smart, sustainable cold chain.

Research and development investment remains a priority. The new Hyderabad Research & Design Center in India opened and is expected to become the largest center supporting R&D for UTC Climate, Controls & Security. The Center of Excellence in Culoz, France, also opened. The facility focuses on innovations that improve air quality and treatment, shorten new product development, and improve energy performance and user comfort. Along with Otis, UTC Climate, Controls & Security also announced plans to establish a research center of excellence with the University of Maryland.

UTC Climate, Controls & Security continues to expand its global presence. As one example, the acquisition of approximately 70 percent of Riello Group, S.p.A., a leading Italian heating company, has opened key segments in Europe and elsewhere.

In all of its work, UTC Climate, Controls & Security remains a leader in the green building movement. During the year it broke ground on the UTC Center for Intelligent Buildings, a state-of-the-art showcase designed to provide visitors a new way to interact with current and emerging building technologies. The center, scheduled for completion in 2017 and targeted to be LEED certified, will be located in Palm Beach Gardens, Fla.

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Pratt & Whitney is a world leader in the design, manufacture and service of aircraft engines and auxiliary power units.

Pratt & Whitney is entering a new era of growth propelled by demand for its revolutionary Geared Turbofan commercial engines; Pratt & Whitney Canada’s leading civil aircraft engines, including a powerful new line for business jets; and its military engines, including the F135 engine for the F-35 Lightning II aircraft, the most technologically advanced fighter jet in history.

The GTF engine is transforming the aviation industry as the most sustainable engine on the market. In 2016 GTF engine orders increased to more than 8,000, including options. Since its entry into service in early 2016 it has delivered its promised 16 percent reduction in fuel burn, 50 percent fewer environmental emissions and a noise footprint that is reduced by 75 percent.

As the GTF continues to enter service, Pratt & Whitney is taking steps to offer customers a strong maintenance, repair and overhaul network that provides global reach, choice and value. During the year it announced a $65 million investment in its engine overhaul facility in Columbus, Georgia, a site with decades of high-volume engine maintenance experience. Other members of the GTF network include MTU Aero Engines, Japanese Aero Engines Corporation and Lufthansa Technik.

Pratt & Whitney Canada continues to prove why it sets the industry standard for civil aircraft engines. In 2016 it received two engine certifications and one aircraft certification. In addition its PW815GA engine powered the first flight of the Gulfstream G600, a next-generation business jet. To enhance customer service, Pratt & Whitney Canada introduced MyP&WC Power, an online portal that enables customers to connect with the company and access information and support tools.

On the military front, Pratt & Whitney was announced as the engine provider for the U.S. Air Force’s B-21 Raider. The U.S. Air Force declared Initial Operational Capability on the F-35A, signaling that it had met all key criteria to be considered combat ready. The U.S. Air Force also awarded the company a contract for the development of a future combat engine through its Adaptive Engine Transition Program.

Late in the year the U.S. Army selected Advanced Turbine Engine Company, a joint venture of Pratt & Whitney and Honeywell, for the preliminary design of a new engine for Black Hawk and Apache helicopters.

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UTC Aerospace Systems is one of the world’s largest suppliers of advanced aerospace products and systems for commercial, military and space customers.

UTC Aerospace Systems is on virtually every aircraft in service and is well-positioned to support the extraordinary growth forecast for the commercial aviation industry. During the year its advanced systems enabled the first flights of the Embraer E2, the Boeing 737 MAX and the Gulfstream G600 as well as the entry into service of the Airbus A320neo and the Bombardier C Series.

This business is at the forefront of more electric, more intelligent and more integrated aircraft. One example is the work it is doing for Hawaiian Airlines. During the year it was chosen to provide state-of-the-art electronic flight bag systems for enhanced functionality, greater safety and stronger cybersecurity. For flight crews, the new electronic flight bag systems enhance their ability to evaluate aircraft performance and weather conditions in real time.

UTC Aerospace Systems also has developed a revolutionary design approach to the secondary power distribution system, the “nerve center” of an airplane’s power system. The patent-pending process enables a rapid development cycle for managing and protecting an aircraft’s electrically powered devices. The new technology has been deployed on Embraer’s E190-E2 regional jets.

Work is underway on an advanced mobile app to bring preflight and inflight information to a pilot’s tablet. Users will be able to access intelligent analytics wherever they are, allowing them to adjust aircraft operations based on real-time data. The easy access to information is expected to improve fuel consumption, on-time departures and arrivals, and eliminate paper-based processes.

Another major development is a lighter and more compact advanced integrated drive generator to provide electrical inflight power on Embraer’s new E190-E2. The new generator supplies the constant frequency electric power needed for the aircraft — which is equivalent to the amount of electricity needed to power 48 homes — and does so with the added benefit of cost and fuel savings.

On the military front, UTC Aerospace Systems continues to move its MS-177 multi-spectral and long-range imaging sensor system to new heights. During the year the sensor completed a series of flight demonstrations from a high-altitude, long-endurance unmanned aerial system, performing successfully in both land and maritime mission environments. The U.S. Air Force awarded UTC Aerospace Systems a contract to expand and enhance the sensor’s multi-spectral resolution reach.

UTC Aerospace Systems is advancing modern flight with sophisticated systems that make aircraft more electric, more intelligent and more integrated. The vast amount of data generated by these systems is gathered, analyzed and delivered in real time to enhance the safety, efficiency and overall performance of an aircraft.

MORE ELECTRIC
MORE INTELLIGENT
MORE INTEGRATED

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UTC AEROSPACE SYSTEMS

40,959
EMPLOYEES

$14.5B
NET SALES

$2.3B*
ADJUSTED OPERATING PROFIT

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We take pride in being known as a company that sets big goals and delivers big results. We do this by having a highly educated, engaged and motivated workforce. The Employee Scholar Program helps make that possible.

In 2016 we celebrated the 20th anniversary of the ESP, a program that has been recognized by educators and media for its generosity — but more important for its focus on helping employees stay abreast of their current field or develop skills in new ones. In today’s highly competitive business environment, it is essential that we have a workforce that can adapt quickly and recognize the opportunities that a changing business environment brings. By encouraging lifelong learning — and helping employees achieve it — we build a high-performance culture that is never satisfied with the status quo and is always looking for ways to improve. That is the essence of UTC’s success.

We invite you to learn more about the ESP and read the personal experiences of some of our recent alumni and participants by visiting www.utc.com/ESP20.