



Backgrounder

Boeing Commercial Airplanes
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Boeing Commercial Airplanes

Boeing Commercial Airplanes, a business unit of The Boeing Company, is committed to being the leader in commercial aviation by offering airplanes and services that deliver superior design, efficiency and value to customers around the world.

There are more than 10,000 Boeing commercial jetliners in service that fly farther on less fuel, reduce airport noise and emissions, and provide passenger-preferred comfort while delivering superior bottom-line performance to operators. The company also offers the most complete family of freighters, and about 90 percent of the world's cargo is carried onboard Boeing planes.

Boeing traces its history to aviation pioneer William Boeing who, in 1916, built the company's first airplane, a seaplane for two with a range of 320 nautical miles (515 km). Since then, Boeing has defined the modern jetliner and introduced the twin-aisle cabin, the glass cockpit and countless other innovations.

Boeing Commercial Airplanes employs about 60,000 people under the leadership of President and CEO Kevin McAllister. The business unit's revenue in 2017 was \$56.7 billion.

With headquarters in the Puget Sound region of Washington state, Boeing Commercial Airplanes has operations across several U.S. states and countries. The business unit comprises five airplane programs, VIP-derivative airplanes, extensive fabrication and assembly facilities and a global customer support organization.

Airplane Programs/Airplane Development

The Boeing 737 is the fastest-selling commercial airplane in Boeing history. The single-aisle jetliner, known for being reliable, simple and economical to operate, dominates the market for short- to medium-range routes.

737 MAX – The 737 MAX is the fastest-selling airplane in Boeing history, with more than 4,300 orders. The entire 737 MAX family is designed to offer customers exceptional

* Includes airplanes produced by McDonnell Douglas, which merged with Boeing.

performance, with lower per-seat costs and an extended range that will open up new destinations in the single-aisle market. The family includes the 737 MAX 7, MAX 8, high-capacity MAX 8, MAX 9 and MAX 10.

Boeing also continues to build the Next-Generation 737 and will be delivering that airplane to customers through 2019.

The Boeing 747, the original “jumbo jet” with its distinctive upper-deck profile, is among the fastest airliners in service.

Boeing 747-8 Family - The Boeing 747-8 Intercontinental and 747-8 Freighter are the high-capacity 747s that offer airlines the lowest operating costs and best economics of any large passenger or freighter airplane in its class – while providing enhanced environmental performance.

This latest family of 747 jetliners meets airline requirements for a passenger airplane that serves the 400- to 500-seat market and for a freighter that continues the leadership of the 747 Freighter family in the world cargo market.

Both airplanes represent a new benchmark in fuel efficiency and noise reduction, allowing airlines to lower fuel costs and fly into more airports at more times of the day. The 747-8 gives double-digit fuel improvements over the 747-400 and has a 30-percent smaller noise footprint. The 747-8 builds on the current 747's capability to fly into most airports worldwide, using the same pilot type ratings, services and most ground support equipment. With a range of more than 7,700 nautical miles (14,310 km), the 747-8 Intercontinental can connect nearly any major city pair in the world.

The Boeing 767 family includes the 767-300ER and the 767 Freighter, based on the 767-300ER fuselage. The versatile 767 has earned a reputation among airlines for its profitability and comfort. The 767 Freighter offers excellent fuel efficiency, operational flexibility, low-noise levels and an all-digital flight deck to support time-critical cargo schedules, even at airports with stringent noise and emissions standards.

The Boeing 777 family is distinguished by its fuel-efficiency, spacious cabin interior, range capability, commonality and reliability. The 777 provides the most payload and range capability and growth potential in the medium-sized airplane category — all with low operating costs.

Since its entry into service in June 1995, Boeing has expanded the 777 family to include five passenger models and a freighter version. The benefit to airlines is a family of airplanes offering broad market coverage and commonality.

The 777 seats from 313 to 425 passengers in a two-class configuration with a range capability of 4,240 nautical miles (7,850 km) to 8,555 nautical miles (15,840 km). The 777 is available in the 777-200ER (Extended Range), the 777-300ER, the 777-200LR Worldliner (the world's longest range commercial airplane) and the Boeing 777 Freighter.

777X – The future 777X was launched at the 2013 Dubai Airshow with a record-breaking number of customer orders and commitments. The program currently has 340 orders and commitments. The 777X family includes the 777-8 and the 777-9 – both designed to respond to market needs and customer preferences. It builds on the passenger-preferred and market-leading 777, as well as offering more market coverage and revenue capability than the competition. The 777X will include new engines, an all-new composite wing and will leverage technologies from the 787 Dreamliner. The 777X is 12 percent more fuel efficient than the competition and features 10 percent better operating economics over the competition. Production of the airplane is underway and first delivery is scheduled for 2020.

The Boeing 787 Dreamliner is a family of super-efficient airplanes with new passenger-pleasing features. Boeing designed the 787 family with superior efficiency, which allows airlines to profitably open new routes to fly people directly where they'd like to go in exceptional comfort. Since entering service in 2011, the 787 family is flying more than 1500 routes and has opened more than 170 new nonstop routes around the world.

An international team of top aerospace companies builds the 787 family, led by Boeing at its facilities in Everett, Wash. (near Seattle) and North Charleston, S.C.

The 787-8 Dreamliner can fly 242 passengers up to 7,355 nautical miles (13,620 km) in a typical two-class configuration. The 787-9 can fly 290 passengers 7,635 nautical miles (14,140 km) in addition to more cargo, allowing airlines the ability to grow routes first opened by the 787-8. The third and longest 787, the 787-10, will fly 330 passengers up to 6,430 nautical miles (11,910 km), when deliveries begin in 2018.

The Boeing Business Jets bring the best of commercial aviation into the realm of private air travel, offering customers a wide range of Boeing products that can be uniquely customized for the private, business or governmental sectors. The characteristics of these airplanes also provide an excellent value proposition when outfitted for the private market; offering larger, more personalized space, unmatched reliability and worldwide support.

Boeing Global Engagement

Boeing prides itself as a corporate citizen committed to improving the quality of life in communities worldwide. Every year, Boeing Commercial Airplanes, its employees and its

retirees contribute millions to charitable and community causes. In the United States, our focus is Our Future (education and tomorrow's innovators); Our Heroes (veterans and families) and Our Homes (dynamic communities).

In-service fleet data (from Dec. 2016 Ascend Extract)

Boeing (and McDonnell-Douglas) aircraft account for more than 11,000 of the in-service commercial aircraft today. By comparison, the next closest manufacturer, accounts for just over 8,500 of the world's commercial aircraft.

Major Boeing Commercial Airplanes Facilities

- **Renton, Washington** – 737 Manufacturing
- **Everett, Washington** – 747 Manufacturing; 767 Manufacturing; 777 Manufacturing; 787 Manufacturing, Everett Delivery Center
- **North Charleston, South Carolina** – 787 Manufacturing
- **Seattle, Washington** – 737 Delivery Center; Boeing Business Jets program.
- **Melbourne, Australia; Winnipeg, Canada; Sheffield, UK and five US states including Montana, Oregon, South Carolina, Washington** -- Boeing Fabrication provides key manufacturing and assembly capabilities focused on precision machining, electrical and interior systems, engine inlet assemblies and nacelle repair, and advanced primary- and secondary-composite structures.
- **Long Beach and Seal Beach, California** - Customer Support, Engineering support to Airplane Programs

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