



# Backgrounder

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**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\*, flying passengers and freight more efficiently than competing models in the market. A record 5,500 airplanes are currently on order.

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. Today, Boeing Commercial Airplanes offers a complete family of technologically advanced and fuel efficient airplanes.

Boeing Commercial Airplanes employs more than 83,000 people under the leadership of President and CEO Ray Conner. The business unit's revenue in 2013 was a record \$53 billion.

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

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

## **Airplane Programs/Airplane Development**

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

The Next-Generation 737 is the most current family, including the 737-600/-700/-800/-900ER models. The airplane program continually incorporates value-added technologies and significant design innovations to improve performance, navigation precision and passenger comfort. The Next-Generation family has won orders for more than 6,800 airplanes, while the combined 737 family has surpassed 12,000 orders. Boeing has delivered more than 8,200 737s, and more than 4,900 Next-Generation 737s through October 2014.

737 MAX – The future 737 MAX is the fastest selling airplane in Boeing history with almost 2,300 orders. It will build on the Next-Generation 737's popularity and reliability, while delivering customers unsurpassed fuel efficiency in the single-aisle market. The family will include the 737 MAX 7, 737 MAX 8 (as well as a 200-seat version of the MAX 8 called the 737 MAX 200) and 737 MAX 9. Deliveries to customers are scheduled to begin in the third quarter of 2017.

**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 new, 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

8,000 nautical miles (14,815 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. Sized between the single-aisle 737 Next Generation and the twin-aisle 777, 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 a complete family of jetliners that is preferred by passengers and airlines around the world. The market-leading 777 family consists of five passenger models, with the ability to fly point-to-point nonstop to bypass crowded and busy hub airports, and a freighter model.

The 777 seats from 301 to 388 passengers in a three-class configuration with a range capability of 5,120 nautical miles (9,480 km) to 9,290 nautical miles (17,205 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.

The market-driven design of the 777 ensures the airplane responds to market needs and customer preferences. The result is a family of airplanes distinguished by 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 with lower operating costs.

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 300 orders and commitments. The family is made up of the 777-8X, which offers more versatility than the A350-1000, and the 777-9X, which is in a class by itself with no competitor. 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 set to begin in 2017 with first delivery in 2020.

**The Boeing 787 Dreamliner** is the family of new, super-efficient airplanes that brings big-jetliner comfort and economics to the middle of the market. The 787 incorporates advanced composite materials, systems and engines to provide superior passenger comfort and

unprecedented performance, including a 20-percent improvement in fuel efficiency and emissions over the airplanes they replace.

Three members of the 787 family – the 787-8, 787-9 and 787-10 – are designed to serve the 200- to 330-seat market on flights as long as 8,500 nautical miles (15,750 km) in three-class seating. The first 787 made its inaugural flight in December 2009, with first delivery of the 787-8 in September 2011 to launch customer ANA. Boeing delivered the second member of the family, the 787-9, to launch customer Air New Zealand in June 2014. Today, development continues of the third and longest 787, the 787-10, which is set to deliver in 2018.

**The Boeing Business Jet** is a high-performance derivative of the 737 that is designed for corporate and VIP applications. The platform gives the owner the flexibility to tailor an airplane for eight or 100 passengers. Boeing also offers VIP versions of the 747, 767, 777 and 787.

## **Commercial Aviation Services**

With a 24-hour network and facilities around the world, Commercial Aviation Services (CAS) offers the broadest range of support products, services and integrated solutions in the aviation industry. From spare parts to pilot training, customer support to onsite technical advice, CAS helps airplane operators keep their fleets flying safely and efficiently.

The Boeing Edge: The Boeing Edge is all about customer success. We provide the support, services and solutions to give customers every competitive advantage-directly from the OEM. It brings customers what no other single service company can. Combining our strengths creates their advantage. The Boeing Edge is built on the five unique Boeing attributes that give Boeing customers a competitive edge and help ensure their success:

- **Passionate People** - Boeing people are available every day, working around the clock to support our customers' businesses.
- **OEM Knowledge** - Our design knowledge, manufacturing experience, engineering expertise and fleet data are part of every service we provide. No one else has it. And no one else can say "backed by Boeing."
- **Breakthrough Technologies** - Our commitment to research and development helps keep airplanes safe, reliable and available-and operations efficient.

- Lifecycle Commitment - Our support begins when a customer acquires airplanes and continues as it operates and maintains them daily, upgrades and refreshes them, and transitions them.
- Unparalleled Integration - We have the largest services portfolio in the industry, so we can provide solutions that span an entire enterprise. And we can integrate solutions to give an airline's fleet, operations, and business maximum performance.

## **Global Corporate Citizenship**

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 education; health and human services; arts and culture; and civic and environmental issues.

## **Major Boeing Commercial Airplanes Facilities**

- **Renton, Washington** – 737 Manufacturing; Boeing Flight Services
- **Everett, Washington** – 747 Manufacturing; 767 Manufacturing; 777 Manufacturing; 787 Manufacturing
- **North Charleston, South Carolina** – 787 Manufacturing
- **Seattle, Washington** – Global Customer Support; Spares and Logistics Support; Maintenance & Engineering Services; Fleet Enhancements & Modifications; Flight Operations Support; Boeing Business Jets program.
- **Melbourne, Australia; Winnipeg, Canada; and five U.S. states including Montana, Oregon, South Carolina, Washington** -- Boeing Fabrication provides key manufacturing and assembly capabilities focused on precision machining, electrical and interior systems and advanced primary- and secondary-composite structures.
- **Long Beach and Seal Beach, California** - Customer Support, Engineering support to Airplane Programs

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