



**BOMBARDIER
IN THE
UNITED STATES**

.....

WHO WE ARE

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Bombardier is a world leading manufacturer of both planes, and trains and a significant contributor to the U.S. economy. For nearly 40 years, Bombardier has manufactured and serviced products across the United States, providing transportation options for millions of Americans from coast to coast.

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A GLOBAL PRESENCE

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Bombardier is a world leader in the design, manufacture and support of civil aircraft, rail systems and equipment.

Annual revenues of **\$16.2 billion**
(fiscal year ended December 31, 2018)

68,000 employees on five continents
(as at December 31, 2018)

75 production and engineering sites in
28 countries

A comprehensive worldwide service and support network

All amounts are expressed in U.S. dollars unless otherwise indicated.

All employee counts are as at March 1, 2019, unless otherwise indicated.

Production and engineering site counts are as at December 31, 2018.

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The A220 is manufactured by CSALP, a limited partnership between Airbus SE, Bombardier Inc. and Investissement Québec.

Cover top photo: Global 7500 business jet

Cover bottom photo: Bay Area Rapid Transit (BART) train, California

BUILT WITH U.S. EXPERTISE



THE BEGINNING OF LEARJET,
WICHITA, KS



1960s SKYBUS DEMONSTRATION TRAIN,
PITTSBURGH, PA



SUBWAY CARS, NEW YORK CITY



BOMBARDIER SERVICE CENTER IN MIAMI

BUILT WITH U.S. EXPERTISE

Bombardier has been a U.S. manufacturer for nearly 40 years. Our U.S. footprint has grown from one location supplying rail cars to more than 35 sites spread across 17 states employing more than 7,000 Americans.

Below are some important milestones for Bombardier in the U.S.:

- 1976** Bombardier enters the U.S. rail market. Following contracts in Chicago (1976) and New Jersey (1980), the company opens its first domestic rail production facility in Barre, VT.
- 1986** Bombardier strengthens its rail expertise, acquiring Pullman Technology of Chicago along with the mass transit equipment division of the Budd Company.
- 1990** Bombardier acquires Learjet Corporation, with facilities in Wichita, KS; Dallas, TX; Tucson, AZ; and Ft. Lauderdale, FL.
- 1994** Bombardier acquires the West Virginia Air Center in Bridgeport, as a hub for commercial airliner maintenance.
- 1995** Bombardier opens its Plattsburgh, NY rail car manufacturing plant, to supply trains for customers across the United States.

- 2001** Bombardier acquires German-based Adtranz including automated transit technologies from Westinghouse Transportation Systems and production facilities outside Pittsburgh, PA.
- 2014** Bombardier completes a \$25 million expansion of its Plattsburgh site.
- 2017** Bombardier announces a partnership with Airbus to build and market the *C Series* (now called the A220) aircraft including construction of an aircraft production facility in Mobile, AL.
- 2018** Bombardier breaks ground on a new business aircraft service center in Opa-locka, FL, which will serve as a hub for Latin America customers.
- 2019** Bombardier's Wichita site becomes the home for final completions of *Global 5000* and *Global 5500* business jets.
- 2019** Bombardier acquires Triumph Group Inc.'s aircraft wing manufacturing operations based in Red Oak, TX.

U.S. PRESENCE

BROAD ECONOMIC IMPACT



AEROSPACE

- Manufacturing site
- Aircraft Service Center
- ▲ Parts Distribution Center
- Component Repair and Overhaul Center
- ▼ Worldwide Flight Test Center
- Regional Support Office

RAIL TRANSPORTATION

- Manufacturing / Equipment Refurbishment Site
- Operations, Maintenance and Technical Support
- ▲ Parts Distribution Center
- ◆ Engineering and Project Management Site

*Planned final assembly line for A220 aircraft

More than **7,000 employees** across 17 states

\$14.3 billion in business for U.S. suppliers across 47 states (2014-2018)

\$2.5 billion in direct export sales from U.S. activities (2014-2018)

\$12.3 billion in indirect exports from international activities (2014-2018)¹

\$600 million invested in U.S. operations (2014-2018)

5 manufacturing sites²

25 service centers; **2** parts distribution centers;
2 component repair and overhaul facilities;
 and **1** equipment refurbishment center



BILEVEL COACH FOR
CENTRAL FLORIDA'S SUNRAIL



LEARJET 75 BUSINESS JET

1. US exports generated from purchases by Bombardier's overseas operations
 2. Includes planned final assembly line for A220 aircraft in Mobile, AL

AEROSPACE ACTIVITIES IN THE U.S.



CRJ550 COMMERCIAL AIRCRAFT



CRJ900 COMMERCIAL AIRCRAFT



A220 COMMERCIAL AIRCRAFT

U.S. TECHNOLOGY

Bombardier manufactures a broad range of commercial and business aircraft. U.S. technology and expertise play key roles in our aircraft programs:

- the Airbus A220 commercial aircraft family (formerly Bombardier's C Series), contains more than 50 percent U.S. content, including engines, avionics, and power systems;
- the *CRJ Series* regional commercial aircraft family contains more than 60 percent US content, including engines and avionics.
- the *Global 7500* ultra-long-range business jet, which entered service in December, 2018, contains 70 percent U.S. content including major systems such as engines, wings, and avionics.
- final completions for the *Global 5000* and *Global 5500* business jets were transferred to Bombardier's manufacturing campus in Wichita, KS in 2019.

IN THE UNITED STATES

Bombardier manufactures *Learjet* business jets at its facilities in Wichita, Kansas. Bombardier's Flight Test Center, also in Wichita, is the center of excellence for development and certification flight testing of all Bombardier aircraft.

Bombardier's commercial aircraft fleet in the U.S. includes more than 900 *CRJ Series* regional jets that are in service with Delta Airlines, United Airlines and American Airlines.

In 2017, Bombardier announced a partnership with Airbus to construct a final assembly line for the *C Series* aircraft (now called the A220) in Mobile AL. The Mobile facility will produce A220 aircraft for U.S. customers such as Delta Airlines, JetBlue and Moxy.

BOMBARDIER SPECIALIZED AIRCRAFT

The U.S. government currently operates approximately 115 specialized Bombardier aircraft for a variety of missions, including military applications, flight inspection and search and rescue operations.

The United States Air Force operates *Global 6000* aircraft fitted with the Battlefield Airborne Communications Node (BACN) system. Developed in the U.S., and flight tested in Wichita, these aircraft are employed as sophisticated high-altitude communications relay platforms that transmit data between disparate battlefield communications systems.



LEARJET 75 BUSINESS AIRCRAFT
MANUFACTURING



GLOBAL 7500 BUSINESS JET



GLOBAL 6000, E-11A,
U.S. AIR FORCE BACN PROGRAM



C SERIES AND GLOBAL 7500
FLIGHT TEST VEHICLES, WICHITA

RAIL TRANSPORTATION ACTIVITIES IN THE U.S.



R179 SUBWAY CAR, NEW YORK, NY

A BROAD PRESENCE

Bombardier Transportation provides rail equipment, systems and after-market services to transit and airport authorities across the U.S. It has a broad installed product base, including:

- 20 high speed trainsets for the Amtrak *Acela Express* High Speed Train service – the first and only high speed trains in North America
- More than 1,800 subway cars in New York City
- More than 1,100 electric commuter rail cars serving New York
- More than 400 aluminum *BiLevel* commuter cars operating in 11 U.S. metropolitan regions
- Fully automated transit systems in 18 U.S. cities
- A driverless monorail system in the heart of Las Vegas
- Nearly 500 stainless steel, MultiLevel vehicles in New Jersey and Maryland
- Electric and dual-power locomotives with NJ TRANSIT
- A fleet of light rail vehicles in Minneapolis
- Over 700 rapid transit cars in Chicago



INNOVIA MONORAIL 200 SYSTEM
LAS VEGAS, NV



INNOVIA APM 200, SKY HARBOR AIRPORT
PHOENIX, AZ

U.S. projects currently underway include:

- 300 subway cars for New York City
- 775 rail cars for San Francisco
- Positive Train Control capability on sections of the Long Island Rail Road and Metro-North Railroad
- An INNOVIA APM 256 automated people mover system with 36 vehicles for Chicago O'Hare International Airport
- 17 dual-power locomotives for NJ TRANSIT
- An extension to the automated people mover system with 24 INNOVIA APM 200 vehicles for Phoenix Sky Harbor International Airport
- A new automated people mover system for Los Angeles International Airport
- 113 Multilevel III commuter rail cars for NJ TRANSIT

Bombardier's rail business employs U.S. workers at production and services sites across 12 states. The company manufactures rail vehicles at its facility in Plattsburgh, New York. Sites in Pittsburgh, PA design and produce rail products for both domestic and export markets.



ELECTRIC MULTIPLE UNIT EMU MANUFACTURING, PLATTSBURGH, NY

AFTERMARKET SERVICES

AEROSPACE

Bombardier has an extensive aftermarket services network throughout the U.S. to support its installed fleet of more than 2,700 business jets and more than 900 commercial aircraft. The company's repair and overhaul facilities provide high-skill, well-paying jobs similar to those in manufacturing and are an important economic driver for local communities.

A VAST FOOTPRINT TO SERVE OUR CUSTOMERS

- Aircraft Service Centers for commercial and business aircraft located in Arizona, Connecticut, Florida, Kansas, Texas, and West Virginia.
- Regional Support Offices in Arizona, Connecticut and Florida.
- Parts Distribution Center in Illinois.
- Component Repair and Overhaul centers in Kansas and Texas.

A Customer Response Team provides 24/7 support to customers wherever they are located, whenever the need arises. Bombardier Business Aircraft's Mobile Response Team fleet of 18 vehicles, a dedicated Chicago-based *Learjet 45* aircraft, field Service Representatives, and technicians get the job done.



AUTOMATED PEOPLE MOVER MAINTENANCE
AT DALLAS/FORT WORTH INTERNATIONAL AIRPORT

RAIL TRANSPORTATION

Bombardier also provides a broad range of aftermarket services in the rail industry, including operations, maintenance, vehicle and component refurbishment, and material and technology solutions.

- The company operates, maintains and provides technical support to four commuter rail systems in California, Florida and Maryland, and a light rail system in New Jersey.
- It also supports fully automated transit systems at 14 airports across the country in Arizona, California, Colorado, Florida, Georgia, Nevada, New Jersey, New York, Pennsylvania, Texas and Washington.
- Bombardier's U.S. centers for rolling stock refurbishment and parts distribution are located in Kanona and Plattsburgh, New York, respectively.



BOMBARDIER AFTERMARKET SPECIALISTS



VEHICLE MAINTENANCE FOR SPRINTER
LIGHT RAIL TRAINS IN CALIFORNIA

A 21ST CENTURY U.S. WORKFORCE



Bombardier is an innovative manufacturer that has pushed the vanguard of new aviation and rail transportation technologies for decades. Our success depends on recruiting, training, and maintaining a modern, 21st Century workforce.

Examples of workforce training and recruitment efforts in the U.S.:

Arizona



Bombardier's aircraft service center in Tucson works closely with Pima Community College's Aviation Technology program to recruit FAA certified mechanics as well as aviation structural graduates who perform fabrication and metal work.

California



Bombardier partners with Universal Technical Institute and the Los Angeles Trade Technical College to recruit skilled workers to maintain passenger rail equipment for the Los Angeles Metrolink commuter rail system.

Kansas



Bombardier's manufacturing campus in Wichita has established a partnership with Wichita State University to recruit engineering students for a variety of company initiatives. Bombardier also partners with the National Center for Aviation Training to develop curriculum for avionics and electrical technicians, and Airframe & Powerplant (A&P) mechanics.

New York



Bombardier's rail car manufacturing center in Plattsburgh works with Champlain Valley Educational Services and the Mechanical Technology program at Clinton Community College to prepare students for positions in manufacturing industries. It also partners with Clarkson University to provide internships for students in its Engineering program and with SUNY Plattsburgh to provide internships for students in its Global Supply Chain Management program.

Pennsylvania



Bombardier's Rail Control Solutions division in Pittsburgh recruits software engineers from local universities such as the University of Pittsburgh and Carnegie Mellon. These highly skilled employees help develop computer programs that control train movements for rail systems.

West Virginia



In Bridgeport, Bombardier helped found an aircraft structures program at nearby Pierpont Community and Technical College that provides training for local residents. In recent years, this program has re-trained former coal miners to pursue careers in aviation who now work for Bombardier.

In 2017, Bombardier created an aircraft maintenance apprenticeship program to train local recruits for metal fabrication and technical positions. Last fall, this program became the first of its kind in West Virginia to be registered by the U.S. Department of Labor.



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