

July 2018

A220 FAMILY

A220 Family Market position

A220 Family is the newest addition to the Airbus family of commercial aircraft, offering unbeatable fuel efficiency and superior customer comfort in single-aisle aircraft of 100 to 150 seats. The A220 Family includes two models, the A220-100 and A220-300

The A220 Family unbeatable fuel efficiency that delivers 20% lower fuel burn and emissions per seat compared to previous generation aircraft.

With a range of up to 3,200 nautical miles the A220 Family can efficiently build airline networks, allowing exceptional flexibility in route development thanks to its range and lower cost per seat than compared to its nearest competitors.

The A220 Family is the perfect complement for A320 Family on the small single-aisle segment, offering the minimum risk for airlines with a lower cost per trip aircraft.

A220 Programme facts

- The A220 was developed by Bombardier in Québec, Canada as the C Series (CS100 and CS300). It is the only aircraft purpose-built for the 100- to 150-seat market.
- Airbus joined the C Series programme as majority partner with Bombardier and Québec Investissement in July 2018 to fully unlock the potential of these innovative aircraft around the world.
- The primary Final Assembly Line (FAL) for the A220 Family is in Mirabel, Québec, Canada. A second FAL for the A220 will be built at in Mobile, Alabama adjoining the current Airbus A320 FAL, serving the US market.
- The A220 Family entered into commercial service on 15th July 2016, when Swiss International Air Lines (SWISS) performed the maiden commercial flight of an A220-100 from Zurich to Paris Charles de Gaulle.
- The first A220-300 entered into commercial service with airBaltic five months later, on 14th December 2016, with a flight from Riga to Amsterdam.
- The first A220-300 entered into commercial service with Korean Air in January 2018.

Innovative cabin design

- The A220's most innovative cabin cross-section for the small single-aisle market offers unrivalled living space for its passengers
- With its optimized cross-section, the A220 incorporates a 5-abreast configuration for economy class and 4-abreast for business class.
- Larger economy seats of 18+ ", the widest in its class, The middle seats are even wider at 19 in. (48.3 cm).
- Large and accessible overhead bins with one roller-bag per passenger capability.
- Large windows provide more natural light into the cabin.
- Like the A320 Family, lavatories offered on the A220 Family have improved accessibility for passengers with reduced mobility
- Business class seat width is 21 in. (53.3 cm).

Engine efficiency

- The A220 is powered by two Pratt & Whitney PurePower® PW1500G engines, belonging to the same engine family as the Pratt & Whitney PurePower® PW1100G engines powering the A320neo Family
- Combined with the aircraft's advanced aerodynamics, the engines significantly reduce fuel burn, noise and emissions.
- Normal cruise speed is 447 kts (515 mph, 829 km/h)

Community benefits

- Like the A320 Family, the A220 Family offers the lowest noise levels of any commercial jet in production
- Noise footprint up to four times smaller than other in-production aircraft
- Fuel burn advantage translates directly into a 20% reduction in CO2 emissions. Therefore one aircraft will reduce an operator's emissions by up to 6,000 tonnes per year
- Emits 50% fewer NOx emissions than the standards
- The design, manufacturing, operations and recyclability of the A220 earned it an Environmental Product Declaration (EPD) upon its entry into service, an industry first

Advanced flight deck

- The state-of-the-art flight deck was designed for pilots by pilots, its main features are:
- 3-axis fly-by-wire with full envelope protection and speed stabilization
- Five large 15.1-inch (38.4 cm) LCD displays
- Side stick controls

Maintenance advantages

As a result of its optimized maintenance program, advanced systems integration and high-technology engine design A220 fly more with higher maintenance intervals: 850 hours for “A” checks and 8,500 hours for “C” checks

Full compatibility between models

- The two models in the A220 family have 99% parts commonality
- Both models have the same pilot type rating, further adding to operational flexibility
- All cabin and flight crews can also transition seamlessly between the two models

Key measurements

- Maximum fuselage diameter 12 ft. 2 in. (3.7 m)
- Cabin floor width 122 in. (3.1 m)
- Maximum floor to aisle ceiling height of 6 ft. 11 in. (2.11 m)
- Wings on both models are the same, with a wingspan of 115 ft. 1 in. (35.1 m) and area of 1,209 ft.² (112.3 m²)
- The fuselage of the A220-300 is 12 ft. 3 in. (3.7 m) longer at 127 ft (38.7m) compared to 114 ft. 9 in (35 m) for the A220-100.

A220-100 facts

- Typical seating in dual class is 116 seats and maximum capacity is up to 135 seats.
- Range of 2,950 nautical miles (3,400 statute miles or 5,460 km)
- The A220-100 provides the lowest risk for new routes opening and the best choice for growing Regional Airlines
- The A220-100 is also best in class for Urban airports and challenging operations

A220-300 facts

- Fuselage 12 ft. 3 in. (3.7 m) longer than the A220-100 at 127 ft (38.7m)
- Typical seating in dual class is 141 seats and maximum capacity is up to 160 seats. Range of 3,200 nautical miles
- A220-300 is the best network builder allowing exceptional flexibility in route development thanks to its range and lower cost per seat than nearest competitor
- It also offers the lowest risk solution for start-up operators but also a growth potential from the A220-100