

January 2022
(Figures at end of December 2021)

A220 FAMILY: PURPOSE BUILT FOR EFFICIENCY

Key Figures

Maximum Operational Flexibility

-25% fuel burn per seat and CO₂ vs previous generation aircraft

25% cost advantage per seat compared to previous generation aircraft

Right-Size for the 100 to 150 seat market segment

The A220 Family, comprising the A220-100 and the A220-300, is the most efficient small single-aisle aircraft.

The A220 is a clean sheet design and the only aircraft purpose-built for the 100 to 150 seat market segment - offering up to 1,100nm more range

Bringing together state-of-the-art aerodynamics, advanced materials and latest-generation technologies and engines, the A220 is perfectly sized for this market and with a range of up to 3,450nm (6,390km).

The A220 offers:

- Superior single-aisle comfort: widest seats, largest windows and 20% more overhead stowage space per passenger - providing flexibility for operators to right-size their operations.
- The A220 Family is the ideal complement to the A320 Family and the latest addition to Airbus leading Single-Aisle Family.

Orders and Deliveries

- 668 historical orders from around 25+ customers
- 193 aircraft delivered; 14 operators (SWISS, airBaltic, Korean Air, Delta Air Lines, Air Tanzania, EgyptAir, Air Canada, JetBlue, Air Manas, Ibom Air, Air Austral, Air France, Iraqi Airways and Air Senegal)
- 475 in backlog at the end of December 2021
- 38 deliveries in 2020; 50 deliveries in 2021

In-service status

- 440,000+ flight cycles, 675,000+ flight hours
- 550+ routes (275+ destinations)
- ~99,0% Operational Reliability (12-month rolling)

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Product features

The A220 is purpose-built for efficiency

- Based on a clean-sheet design, the A220 incorporates advanced materials for a lighter and more cost-efficient aircraft
- The A220 features a low drag nose and tailcone design, the smallest fuselage wetted area and optimized wing aerodynamics
- The A220 is powered by two Pratt & Whitney PurePower® PW1500G latest generation engines (geared turbofans), belonging to the same engine family as the Pratt & Whitney PurePower® PW1100G engines powering the A320neo Family
- Altogether, this translates into unbeatable fuel efficiency:
 - 25% less fuel burn per seat vs. previous generation a/c
 - 25% cost advantage per seat vs. previous generation a/c
- As a result of its optimized maintenance programme, advanced systems integration and high-technology engine design, the A220 has longer maintenance intervals: 850 hours for “A” checks and 8,500 hours for “C” checks.
- Highest efficiency and low risk: up to 20 more seats and up to 14% lower operating cost per seat

Cabin features

The A220 features an innovative cabin design for superior passenger comfort

- Largest cabin in its class: 10ft 9in (3.28m), equivalent to 21in (53.3 cm) wider than competition
- Highest ceiling in its class: 4in (10,1cm) better than competition
- Quietest cabin in its class, optimized for the small single-aisle market
- Widest economy seats of any single aisle aircraft – 18+in
 - 5-abreast configuration for economy class with wide Economy seats of 18+in (47 cm), the widest in its class; the middle seats being even wider at 19in (48.3 cm).
 - 4-abreast configuration for Business class with 21in (53.3 cm) seat width
- Wide aisle (around 20in – 50.8cm) for faster turnaround
- Vertical sidewalls for more personal space and comfort (especially at shoulder level)
- Largest overhead stowage in its class: one roller bag per passenger
- Large and panoramic windows (11in x 16in) for more natural light into the cabin
- Full-colour LED ambient lighting with customizable scenarios that contributes to reduce fatigue at destination
- Lavatories with improved accessibility for passengers with reduced mobility (distinctive feature in its class).
- The air in A220 cabins is a mix of fresh air drawn from outside, and air that has been passed through efficient filters, called HEPA filters, which remove 99.9% of air particles. The air in the A220 cabin is renewed fully every 2-3 minutes.

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In-Flight-Entertainment & Connectivity:

- In-seat and overhead video display
- In-seat power supply (ISPS)
- Wireless content distribution
- Ku-band high-speed connectivity

Community benefits

- 25% reduction in CO₂ emissions per seat vs. previous generation of small single-aisle a/c
- Noise footprint area up to 50% smaller than previous generation aircraft; 18 EPNdB margin to chapter 4;
- ~50% fewer NOx emissions than CAEP/6 standards

Technical data

	A220-100	A220-300
Typical 2-class seating	100-120	120-150
Typical high density	135 (not yet certified)	160 (not yet certified)
Engine	Pratt & Whitney PW1500G	
Max Take Off Weight	63.05 t	70.90 t
Range	3,450 nautical miles	3,400 nautical miles
Length	35.00 m	38.70 m
Cabin length	23.70 m	27.50 m
Wing span	35.10 m	
Cabin width	3.28 m	
Height	11.50 m	
Max Fuel Capacity	21,918 l	
Max Cruise speed	M0.82 (541 mph; 871 km/h)	
Usable cargo volume	21 m ³	28 m ³

Operational flexibility

- The A220-100 & the A220-300 share over 99% parts commonality and same type rating

Programme main dates:

16 th September 2013	CS100 (A220-100) first flight
27 th February 2015	CS300 (A220-300) first flight
18 th December 2015	CS100 (A220-100) type certification
11 th July 2016	CS300 (A220-300) type certification
15 th July 2016	CS100 (A220-100) entry into service with Swiss International Air Lines (SWISS) = First commercial flight from Zurich to Paris Charles de Gaulle
14 th December 2016	CS300 (A220-300) entry into service with airBaltic = First commercial flight from Riga to Amsterdam.

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1 st July 2018	Airbus becomes a majority partner of the C Series Aircraft Limited Partnership (CSALP)
12 th February 2020	Airbus and the Government of Québec become sole owners of the A220 Programme
6 th October 2020	Launch of the corporate jet variant of the A220, the ACJ TwoTwenty

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