

September 2023
(Figures at end of August 2023)

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

- 806 historical orders from around 30 customers
- 283 aircraft delivered; 18 operators (SWISS, airBaltic, Korean Air, Delta Air Lines, Air Tanzania, EgyptAir, Air Canada, JetBlue, Air Manas, Ibom Air, Air Austral, Air France, Iraqi Airways, Breeze Airways, Air Senegal, ITA Airways, Bulgaria Air and Cyprus Airways)
- 523 in backlog at the end of August 2023
- 53 deliveries in 2022; 37 deliveries so far in 2023

In-service status

- 900,000+ flight cycles, 1,500,000+ flight hours
- 1,350+ routes (400+ destinations)
- ~98,9% Operational Reliability (3-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 optimised wing aerodynamics
- The A220 is powered by two Pratt & Whitney PW1500 GTF™ 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 optimised 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: 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, optimised 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 reducing fatigue at destination
- Lavatories with improved accessibility for passengers with reduced mobility (a 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

In-Flight-Entertainment & Connectivity:

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- 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 (certification to come)	160 (certification to come)
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:

12 July 2008	C Series Programme launch at the Farnborough Airshow
16 September 2013	CS100 (A220-100) first flight
27 February 2015	CS300 (A220-300) first flight
18 December 2015	CS100 (A220-100) type certification
11 July 2016	CS300 (A220-300) type certification
15 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 December 2016	CS300 (A220-300) entry into service with airBaltic = First commercial flight from Riga to Amsterdam.

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1 July 2018	Airbus becomes a majority partner of the C Series Aircraft Limited Partnership (CSALP)
12 February 2020	Airbus and the Government of Québec become sole owners of the A220 Programme
19 May 2020	Airbus officially opens its A220 production facility in the U.S.
6 October 2020	Launch of the corporate jet variant of the A220, the ACJ TwoTwenty
10 January 2022	The A220 pre-FAL (feeding the Mirabel and Mobile A220 FALs) starts operations at the Airbus site in Mirabel

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