

November 2020
(Figures at end of October 2020)

A320 FAMILY: The most successful aircraft family ever

Key Figures*

20% fuel burn reduction

5% lower airframe
maintenance costs

14% lower cash operating
costs

- The A320 Family is the world's most popular single-aisle aircraft family as it is the preferred choice with airlines, from the low cost carriers for which it is now the aircraft of choice, to new business models taking benefits of new levels of performance and comfort, and with passengers.

- With one aircraft in three sizes (A319, A320 & A321), the A320 Family is comfortably seating from 120 to 244 passengers and allows operators to match the right aircraft size to demand covering the entire market, from low-to-

high-density routes to longer-range thin routes

- Only the A320 Family does offer containerized cargo increasing the airlines' operational efficiency. Due to the widest single-aisle cross section, the A320 Family does offer containerized cargo as an option, providing unique flexibility to operators who can choose among bulk or container capability.

* A320neo vs. previous generation; per seat

A320 FAMILY

Orders and Deliveries

- 15,582 orders from 300+ customers (business case at launch : 600+ aircraft)
- 9,572 deliveries
- 6,010 in backlog

In-service status

- 266+ million flight hours / 145+ million flight cycles since Entry Into Service
- 99.6 percent Operational Reliability (last 12 months)
- An A320 takes-off or lands every 2 seconds
- There are more in service than any other passenger airliner

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A320 FAMILY production rate evolution

- October 2009: rate 34
- 2019: rate 60
- 2020: rate 40

A320neo FAMILY: Unbeatable fuel efficiency

60% market share vs. 737 MAX (end June 2019)

Orders and Deliveries

- 7,455 orders from 121 customers
- 1,499 deliveries
- 105 operators (67 CFM, 38PW)
- 5 956 in backlog

In-service status

- 5.7+ million flight hours
 - 2.9+ million flight cycles
-

The best keeps getting better, creating even more value for airlines

- **A320neo** offers unbeatable efficiency
- Incorporating Sharklets, new more fuel-efficient engines and latest cabin innovations, the key benefits of the A320neo compared to A320ceo are:
 - 20% fuel burn reduction per seat
 - 5% lower airframe maintenance costs
 - 14% lower cash operating costs per seat
- New generation engines option:
 - Pratt & Whitney's PurePower PW1100G-JM geared turbofan
 - CFM International's LEAP-1A
- A320neo offers between 4-6% lower fuel burn per seat compared to the Boeing 737 MAX8
- A321neo offers 7% lower fuel burn per seat compared to the Boeing 737 MAX10

- **A321LR** is offering long range capability, achieving up to 4,000nm (7400km)
The A321LR can carry up to 244 passengers in a single-class configuration, while cabin flexibility allows to offer also a three-class configuration with full flat premium seats or a typical two-class configuration with up to 206 seats.
It is improved with a maximum take-off weight of 97 tonnes.
Compared to its previous generation competitor aircraft, operators will benefit of 30% lower fuel consumption per seat and 30% lower operational cost per seat. The A321LR offers 95% airframe spares commonality with the A320 Family.

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- **A321 XLR** : The next evolutionary step from the A321LR, now flying Xtra Long Range of up to 4,700nm (+15% than A321LR) with unbeatable fuel efficiency.
- Providing 30% lower fuel burn per seat than previous generation competitor aircraft .
- Entry into service of the A321XLR is planned in 2023.

The A321 XLR offers a long haul experience on board with 6,000ft average cabin altitude and delivers an enhanced payload range capability, enabling airlines to Xtend their market reach, thanks to a permanent Rear Centre Tank (RCT, (12,900ll fuel volume), an optional Additional Centre Tank (ACT) and a higher Maximum Take-Off Weight of 101t.

Airspace cabin: perfect space for passengers and airlines

- Being the widest single-aisle, with 7” more than the 737, the A320 Family will always offer wider seats, a wider aisle, bigger stowage and a more comfortable flight.
- The A320 Family cabin features long haul seat comfort in all classes, from the comfort economy to the full-flat business class seat, providing the versatility to adapt to all airline strategies.
- The new Airspace cabin provides passengers with the best travel experience, including comfortable seats like on a widebody aircraft.
- Airspace is already in service with A350 XWB and A330neo and will be fully available in 2021 for the A320neo Family (e.g. mood lighting, connectivity, bigger bins).

Community benefits

- Nearly 50% reduction in noise footprint (20 EPndB lower noise than the latest Stage 4)
- 5,000 tonnes less CO2 emissions per year per aircraft
- NOx emissions 50% below current industry standard

Technical data

A320ceo Family	Typical seating in two class config*.	Max. seating*	Range	Wing Span	Overall length	Overall height	MTO W
A319	124	156	3,750nm 6,950km	117'5"ft 35.80m	111'0"ft 33.84m	38'7"ft 11.76m	75.5t
A320	150	180	3,350nm 6,200km	117'5"ft 35.80m	123'3"ft 37.57m	38'7"ft 11.76m	78t
A321	185	220	3,200nm 5,950km	117'5"ft 35.80m	146'0"ft 44.51m	38'7"ft 11.76m	93.5t

*Without cabin enablers

Technical data

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A320neo Family	Typical seating in two class config	Max. seating	Range	Wing Span	Overall length	Overall height	MTOW
A319neo	120-150	160	3,750nm 6,950km	117'5"ft 35.80m	111'0"ft 33.84m	38'7"ft 11.76m	75.5t
A320neo	150-180	194	3,450nm 6,400km	117'5"ft 35.80m	123'3"ft 37.57m	38'7"ft 11.76m	79t
A321neo	180-220	244	4,700nm 8,700km	117'5"ft 35.80m	146'0"ft 44.51m	38'7"ft 11.76m	101t

Programme main dates

- 26 March 1988: First delivery A320 to Air France (Air Inter)
- 27 January 1994: First delivery A321 to Lufthansa
- 25 April 1996: First A319 delivery to Swiss Air
- 21 July 2003: First A318 delivery to Frontier Airlines
- February 2012: 5000th A320 Family delivery
- 1 December 2010: Launch of A320neo Family
- 24 November 2015: A320neo receives Type Certification
- 20 January 2016: First A320neo to Lufthansa
- 15 December 2016: A321neo receives Type Certification
- 20 April 2017: First A321neo to Virgin America
- 13 November 2018: First A321LR to Arkia Israeli Airlines
- 21 December 2018: A319neo with CFM Leap-1A engines wins Type Certification
- 17 January 2019: First ACJ320neo to Acropolis Aviation
- 17 June 2019 : Launch of A321XLR at Paris Airshow

A320 Family facts

- There are 340,000 parts in the A320 aircraft.
- About three A320 Family aircraft leave every day one of the A320 Family final assembly lines all over the world.
- It takes about one month to complete the final assembly of an A320 Family aircraft.
- Production lead time of an A320 from the first piece manufactured to the delivery of the aircraft is around 1 year.
- A320 operations are very similar to breathing. Every time you take a breath an A320 Family aircraft takes-off or lands (every 2 seconds).
- Fan diameter of the A320neo Family engines is 2,05 meters. It is larger than most business jet cabins cross section (such as Bombardier Learjet).
- At the end of its lifecycle, 85% of an A320 can be recycled in terms of weight. This figure will go up to 95% in the next few years.
- At its maximum weight the A321LR weighs more than 7 London Buses.
- The A320 can accelerate from 0 to 200 km/h in less than 20 seconds. This is faster than a 305 HP Ford Focus RS.

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- There are four final assembly lines in three continents for the A320 Family: Toulouse, France (A320 assembly); Hamburg, Germany (A319, A320 and A321 assembly); Tianjin, China (A319 and A320 assembly); and Mobile, USA (A220, A319, A320 and A321 assembly).
 - Electric power produced by both A320 Family engines would be sufficient to provide electricity for 30 standard apartments.
 - The high pressure spool of A320 Family engines during take-off phase turns 11 times faster than a washing machine during the spin cycle.

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