

April 2023

(Figures at end of March 2023)

A350 FAMILY: SHAPING THE FUTURE OF AIR TRAVEL

Key Figures

25% advantage in fuel burn, operating costs and CO₂ emissions vs. previous generation competitor aircraft

70% advanced materials: composites (53%), titanium, modern aluminium alloys

experience

- The A350 Family is the world's most modern and efficient widebody family and the long-range leader. It is the only all-new design aircraft in the 300-410 seater category, offering the lowest cost per seat of any large widebody.
- The A350 offers by design unrivalled operational flexibility and efficiency for all market segments up to ultra-long haul (9,700 m / 18 000 km).
- The A350's clean sheet design includes state-of-the-art technologies and aerodynamics delivering unmatched standards of efficiency and comfort.
- The A350's "Airspace" cabin is the quietest of any twin-aisle and offers passengers and crew the most modern in-flight products for the most comfortable flying

Orders and deliveries

- **Orders:** 967 orders (928 pax and 39 freighter) from 54 customers
- **Deliveries:** 526 A350s delivered to 40 operators. (incl. 69 A350-1000)
- **Backlog:** 441(402 pax and 39 freighter)

In-service status

- 1,025,000+ revenue flights
- 4.2 Years Average Aircraft Age
- 1000+ routes
- 265mio + passengers
- Operational Reliability 99.3% (last 3-month rolling at end Dec 2022) in 2022

Product features

The world's most modern and efficient aircraft family

- Combining the very latest aerodynamics, new generation engines and use of lightweight materials, the A350 brings a 25% advantage in fuel burn, operating costs and carbon dioxide (CO₂) emissions compared to previous generation competitor aircraft.
- State-of-the-art aerodynamics, inspired by nature, including unique wing morphing technology that continuously optimises the wing profile to reduce drag and lower fuel burn.

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- Powered by new Rolls-Royce Trent XWB engines, the world's most efficient large aero engine flying today:
 - A350-900: 84,000 lbs take-off thrust
 - A350-1000: 97,000 lbs take-off thrust
- Over 70% of the airframe is made from advanced materials, including:
 - 53% composites
 - titanium (substitute for steel)
 - modern aluminium alloys

Community benefits

An eco-efficient, sustainable design for a quieter, cleaner aircraft reducing the environmental impact from gate to gate:

- Quietest in its class with 50% noise footprint reduction vs previous generation aircraft: exterior noise level of the A350-900 is certified at 22 EPNdB (Effective Perceived Noise Decibel) below ICAO Chapter 4 requirements.
- 25% less CO₂ emissions per seat. Demonstrating Airbus' commitment to minimise its environmental impact while remaining at the cutting edge of air travel.
- 31% NO_x (Nitrogen (di)Oxide) emissions below CAEP/6.

Cabin features

- **The A350-900** offers 300-350 seats in typical 3-class configuration
- **The A350-1000** offers 350-410 seats in typical 3-class configuration, with the same comfort and 40% more premium area.
- The A350 features a 221 inch-wide cabin / 5,6 m (6" / 15 cm wider than 787) offering passengers absolute comfort in all classes, and flexibility for airlines to accommodate all types of configurations.

Exclusive passenger experience

- The quietest twin-aisle cabin :
 - Five decibels quieter than competing aircraft, and up to nine decibels quieter towards the front of the cabin. This means four times less noise.
- Lower cabin altitude thanks to composite fuselage: 6,000 feet vs 8,000 feet in an aluminium fuselage aircraft reduces passenger fatigue after a long-haul flight.
- Largest overhead luggage bins on the market.
- Highest ceiling (95 inches/2,4 m) in the industry and vertical sidewalls, increasing the feeling of space for passengers.
- Latest air conditioning and cabin temperature management systems:
 - Up to 8 temperature control zones for passengers in all classes, additional 4 zones for crew members.
- The A350 family offers clean air via HEPA filters (High Efficiency Particulate Arrestor) which remove **99.9%** particles in the air, down to the size of microscopic bacteria and virus clusters. All of the air in Airbus cabins is fully renewed about every **2-3 minutes**.

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- Full LED ambient lighting: 16.7 million different colours for a large variety of customisable, dynamic lighting scenarios to simulate different times of day (e.g. mimicking natural sunrise and sunset) and reduce fatigue & jetlag after a long-haul flight.

In-Flight-Entertainment & Connectivity:

- Latest (fourth) generation in-flight entertainment system for all passengers: high definition screens and video on demand.
- Full connectivity (Internet, Email, GSM, WiFi) via personal devices for all passengers.
- Wireless connection, broadband connectivity.

A350 Technical Data

| | A350-900 | A350-1000 |
|----------------------------|--------------------------|--------------------------|
| Typical 3-class seating | 300-350 | 350-410 |
| Max seating capability | 440 | 480 |
| Engine (Thrust) | Rolls-Royce Trent XWB-84 | Rolls-Royce Trent XWB-97 |
| Max.Take-Off Weight (MTOW) | 283t | 319t |
| Range | 8,300nm (15,400km) | 8,700nm (16,100km) |
| Length | 66.80m (219' 2") | 73.78m (242' 1") |
| Wing span | 64.75m (212'5") | |
| Fuselage width | 5.96m (19' 7") | |
| Height | 17.05m (55' 11") | 17.08m (56' 0") |
| Max fuel capacity | 141,000l | 159,000l |
| Usable cargo volume | 172,40 m ³ | 208,20 m ³ |

Operational flexibility

- A flexible, high-value Family comprising two complementary aircraft, the A350-900 and the A350-1000, with high level of commonality (95% common part numbers) and same type rating.
- **The A350-900** is a single and optimum platform, which offers unbeatable operational flexibility and efficiency, from short to ultra-long-range operations.
- **The A350-900 Ultra Long Range (ULR)** is the latest variant of the A350 Family. Capable of flying 9,700 nautical miles (18,000 kilometres) non-stop, the A350-900ULR offers the longest range of any commercial airliner in service today.
- **The A350F** brings the latest-generation efficiency and choice to the large freighter market up to 109t payload. It is the only freighter capable of meeting the latest ICAO requirements (specific A350F Facts & Figures).

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Commonality across all Airbus aircraft product line

- The A350 has been awarded a Common Type Rating with the A330 (+1,000 A330s in-service) allowing:
 - 65% reduction in training time for airline pilots (down to only eight days) versus a full type rating course
 - 15% higher pilot productivity with a single pool of pilots for both the A350 and the A330
- The A350 offers Cross Crew Qualification with the A320 Family (more in-service aircraft than any other jetliner).

2022 - Introduction of the new product development standard

- Up to 1.2t Maximum Weight Empty (weight saving)
- Increased Maximum Take-Off Weight (additional range or payload)
- Enhanced take-off performance (more payload at challenging airports)
- Increased cabin volume (wider & longer cabin, additional

Programme main dates:

| | |
|------|---|
| 2013 | A350-900 first flight (14 th June) |
| 2014 | A350-900 EASA (30 th September) and FAA Type certification (12 th November) First A350-900 delivery to Qatar Airways (22 nd December) |
| 2015 | A350-900 Entry Into Service with Qatar Airways (15 th January) |
| 2016 | A350-1000 first flight (24 th November) |
| 2017 | A350-1000 EASA and FAA Type certification (21 st November) |
| 2018 | First A350-1000 delivery to Qatar Airways (20 th February) A350-1000 Entry into Service with Qatar Airways (24 th February) A350-900ULR Entry into Service with Singapore Airlines (11 th October) |
| 2021 | First A350 delivery to China Eastern from Completion & Delivery Center in Tianjin-China (July) (C&DC) |
| 2022 | Introduction of the new product development standard |

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