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.

- 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 nm).
- 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 experience.

Orders and deliveries

- 915 orders from 49 customers.
- 425 A350s delivered to 39 operators. (incl. 54 A350-1000)

In-service status

- 624,000+ revenue flights
- 678 routes
- 159,000,000+ passengers
- Operational Reliability 99.4% (3-month rolling) as end of May 2021
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 morphing technology that continuously optimises the wing profile to reduce drag and lower fuel burn.

- 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 40% noise footprint reduction vs previous generation aircraft: exterior noise level of the A350-900 is certified at 21 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.

- 28% NOx (Nitrogen (di)Oxide) emissions below CAEP/6.

Cabin features

- The A350 features a 221”-wide cabin (6” wider than 787) offering passengers absolute comfort in all classes, and flexibility for airlines to accommodate all types of configurations.

- 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.

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.

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Largest overhead luggage bins on the market.

Highest ceiling (95 inches) 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.

More fresh air than 787 with entire air cabin renewed every 2 to 3 minutes.

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.

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| **A350-1000**        |
| Typical 3-class seating | 350-410 - Max 440 |
| Engine (Thrust)     | Rolls-Royce Trent XWB-97 |
| Max.Take-Off Weight (MTOW) | 319t |
| Range               | 8,700nm (16,100km) |
| Length              | 73.78m (242’ 1") |
| Wing span           | 64.75m (212’5") |
| Fuselage width      | 5.96m (19’ 7") |
| Height              | 17.08m (56’ 0") |
| Max fuel capacity   | 159,000l |
| Usable cargo volume | 208.20 m³ |

Operational flexibility

- A flexible, high-value Family comprising 2 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.

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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).

Programme main dates:

2013  A350-900 first flight (14th June)
2014  A350-900 EASA (30th September) and FAA Type certification (12th November)
      First A350-900 delivery to Qatar Airways (22nd December)
2015  A350-900 Entry Into Service with Qatar Airways (15th January)
2016  A350-1000 first flight (24th November)
2017  A350-1000 EASA and FAA Type certification (21st November)
2018  First A350-1000 delivery to Qatar Airways (20th February)
      A350-1000 Entry into Service with Qatar Airways (24th February)
      A350-900ULR Entry into Service with Singapore Airlines (11th October)

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