## A350 FAMILY: SHAPEING 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 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 experience.

### Orders and deliveries

- 913 orders from 49 customers.
- 445 A350s delivered to 39 operators. (incl. 56 A350-1000)

### In-service status

- 700,000+ revenue flights
- 3. Years Average Aircraft Age
- 772 routes
- 180 mio + passengers
- Operational Reliability 99.48% (last 3-month rolling at end Oct ) in 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 wing 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 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% NOx (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.
- 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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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.

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

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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)
2021  First A350 delivery to China Eastern from Completion & Delivery Center in Tianjin-China (July) (C&DC)

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