A350 XWB 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 XWB is the world’s most modern wide body family and the long-range leader. It is the only all-new design aircraft in the 300-400 seater category, offering the lowest cost per seat of any large wide body.
- The A350 XWB offers by design unrivalled operational flexibility and efficiency for all market segments up to ultra-long haul (9,700 nm).
- The A350 XWB’s clean sheet design includes state-of-the-art technologies delivering unmatched standards of efficiency and comfort.
- The A350 XWB’s “Airspace by Airbus” cabin is the quietest of any twin-aisle and offers passengers and crews the most modern in-flight products for the most comfortable flying experience.

Orders and deliveries

- 894 orders from 48 customers.
- 240 A350s delivered to 23 operators.

In-service status

- 1,500,000+ flight hours, 220,000+ flight cycles
- 300+ routes
- 61,000,000+ passengers
- 13.8h daily utilisation
- Operational Reliability 99.2% at end January (3-month rolling)

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 XWB 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.
Facts & Figures

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

Cabin features

- The A350 XWB 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 325 seats in typical 3-class configuration with nine-abreast 18"-wide seats as standard in Comfort Economy class.
- The A350-1000 offers 366 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.
  - 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.
    - 20% 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, high-speed connectivity.
### A350 XWB Technical Data

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<thead>
<tr>
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<th>A350-900</th>
<th>A350-1000</th>
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<tbody>
<tr>
<td>Typical 3-class seating</td>
<td>325 - Max 440</td>
<td>366 - Max 440</td>
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<tr>
<td>Engine (Thrust)</td>
<td>Rolls-Royce Trent XWB-84</td>
<td>Rolls-Royce Trent XWB-97</td>
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<tr>
<td>Max. Take-Off Weight (MTOW)</td>
<td>280t</td>
<td>316t</td>
</tr>
<tr>
<td>Range</td>
<td>8,100nm (15,000km)</td>
<td>8,400nm (15,557km)</td>
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<tr>
<td>Length</td>
<td>66.80m (219’ 2&quot;)</td>
<td>73.78m (242’ 1&quot;)</td>
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<tr>
<td>Wing span</td>
<td>64.75m (212’ 5&quot;)</td>
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<tr>
<td>Fuselage width</td>
<td>5.96m (19’ 7&quot;)</td>
<td></td>
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<tr>
<td>Height</td>
<td>17.05m (55’ 11&quot;)</td>
<td>17.08m (56’ 0&quot;)</td>
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<tr>
<td>Max fuel capacity</td>
<td>141,000l</td>
<td>159,000l</td>
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<td>Usable cargo volume</td>
<td>172,40 m³</td>
<td>208,20 m³</td>
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### 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 regional to ultra-long-range operations.
- The A350-900 Ultra Long Range (ULR) is the latest variant of the A350 XWB Family. Capable of flying 9,700 nautical miles (18,000 kilometres) non-stop, or for over 20 hours, the A350-900ULR offers the longest range of any commercial airliner in service today.

### Commonality across all Airbus aircraft product line

- The A350 XWB 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 XWB 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)
Aircraft list prices (2018):

- A350-900 = US$317.4 million
- A350-1000 = US$366.5 million

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