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 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 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 and aerodynamics delivering unmatched standards of efficiency and comfort.
- The A350 XWB’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

- 930 orders from 50 customers.
- 391 A350s delivered to 37 operators. (incl. 50 A350-1000)

In-service status

- 540,000+ revenue flights
- 587 routes
- 138,000,000+ passengers
- Operational Reliability 99.4% reached in 2020 (3-month rolling) as end of March 2020

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.

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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 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 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 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.
- 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 XWB Technical Data

<table>
<thead>
<tr>
<th></th>
<th>A350-900</th>
<th>A350-1000</th>
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</thead>
<tbody>
<tr>
<td>Typical 3-class seating</td>
<td>300-350 - Max 440</td>
<td>350-410 - Max 440</td>
</tr>
<tr>
<td>Engine (Thrust)</td>
<td>Rolls-Royce Trent XWB-84</td>
<td>Rolls-Royce Trent XWB-97</td>
</tr>
<tr>
<td>Max. Take-Off Weight (MTOW)</td>
<td>280t</td>
<td>319t</td>
</tr>
<tr>
<td>Range</td>
<td>8,100nm (15,000km)</td>
<td>8,700nm (16,100km)</td>
</tr>
<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>
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<tr>
<td>Height</td>
<td>17.05m (55’ 11&quot;)</td>
<td>17.08m (56’ 0&quot;)</td>
</tr>
<tr>
<td>Max fuel capacity</td>
<td>141,000l</td>
<td>159,000l</td>
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<tr>
<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 short 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, 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)
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>First A350-900 delivery to Qatar Airways (22\textsuperscript{nd} December)</td>
</tr>
<tr>
<td>2016</td>
<td>A350-900 Entry Into Service with Qatar Airways (15\textsuperscript{th} January)</td>
</tr>
<tr>
<td>2017</td>
<td>A350-1000 first flight (24\textsuperscript{th} November)</td>
</tr>
<tr>
<td>2017</td>
<td>A350-1000 EASA and FAA Type certification (21\textsuperscript{st} November)</td>
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<tr>
<td>2018</td>
<td>First A350-1000 delivery to Qatar Airways (20\textsuperscript{th} February)</td>
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<tr>
<td></td>
<td>A350-1000 Entry into Service with Qatar Airways (24\textsuperscript{th} February)</td>
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<tr>
<td></td>
<td>A350-900ULR Entry into Service with Singapore Airlines (11\textsuperscript{th} October)</td>
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