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.

Orders and deliveries

- **Orders:** 1,277 orders (1,122 pax and 55 freighter) from 60 customers
- ** Deliveries:** 592 A350s delivered to 40 operators. (incl. 84 A350-1000)
- **Backlog:** 685 (630 pax and 55 freighter)

In-service status

- 1,300,000+ revenue flights
- 4.3 Years Average Aircraft Age
- 1,160+ routes
- 355+ mio passengers
- Operational Reliability 99.34% (last 3-month rolling at end February 2024)

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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**A350 Technical Data**

<table>
<thead>
<tr>
<th></th>
<th>A350-900</th>
<th>A350-1000</th>
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<tbody>
<tr>
<td>Typical 3-class seating</td>
<td>300-350</td>
<td>350-410</td>
</tr>
<tr>
<td>Max seating capability</td>
<td>440</td>
<td>480</td>
</tr>
<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>283t</td>
<td>322t</td>
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<tr>
<td>Range</td>
<td>8,300nm (15,400km)</td>
<td>8,700nm (16,100km)</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>
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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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<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 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 1011t payload. It is the only freighter capable of meeting the latest ICAO requirements (specific A350F Facts & Figures).
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 A350 new 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 seats)

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)
2021  A350F programme launch
2022  Introduction of the new A350 standard

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