A350 FAMILY: SHAPING THE FUTURE OF AIR TRAVEL

Key Figures

● 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

● Orders: 938\(^1\) orders from 52 customers

● Deliveries: 491\(^2\) A350s delivered to 394 operators. (incl. 64 A350-1000)

● Backlog: 447 (312 A350-900, 104 A350-1000 and 31 A350F)

In-service status

● 850,000+ revenue flights

● 3,54 Years Average Aircraft Age

● 900+routes

● 215mio + passengers

● Operational Reliability 99,5% (last 3-month rolling at end May) in 2022

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 (CO\(_2\)) emissions compared to previous generation competitor aircraft.

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\(^1\) Excluding 2 A350-900 delivered to ITA Airways via Airbus Financial Services

\(^2\) Excluding 2 A330-900 AEROFLOT unders sanctions
- 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 CO\textsubscript{2} 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.

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○ 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.

<table>
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<tr>
<th>A350 Technical Data</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</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>
</tr>
<tr>
<td>Max.Take-Off Weight (MTOW)</td>
<td>283t</td>
<td>319t</td>
</tr>
<tr>
<td>Range</td>
<td>8,300nm (15,400km)</td>
<td>8,700nm (16,100km)</td>
</tr>
<tr>
<td>Length</td>
<td>66.80m (219’ 2”)</td>
<td>73.78m (242’ 1”)</td>
</tr>
<tr>
<td>Wing span</td>
<td>64.75m (212’5”)</td>
<td></td>
</tr>
<tr>
<td>Fuselage width</td>
<td>5.96m (19’ 7”)</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>17.05m (55’ 11”)</td>
<td>17.08m (56’ 0”)</td>
</tr>
<tr>
<td>Max fuel capacity</td>
<td>141,000l</td>
<td>159,000l</td>
</tr>
<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 109t 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).

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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