

### A350 XWB FAMILY: SHAPING THE FUTURE OF AIR TRAVEL

#### Key Figures

**25%** advantage in fuel burn, operating costs and CO<sub>2</sub> 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 (CO<sub>2</sub>) 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 CO<sub>2</sub> emissions per seat.
- 28% NOx (Nitrogen (di)Oxide) emissions below CAEP/6.

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### 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

	A350-900	A350-1000
Typical 3-class seating	325 - Max 440	366 - Max 440
Engine (Thrust)	Rolls-Royce Trent XWB-84	Rolls-Royce Trent XWB-97
Max. Take-Off Weight (MTOW)	280t	316t
Range	8,100nm (15,000km)	8,400nm (15,557km)
Length	66.80m (219' 2")	73.78m (242' 1")
Wing span	64.75m (212' 5")	
Fuselage width	5.96m (19' 7")	
Height	17.05m (55' 11")	17.08m (56' 0")
Max fuel capacity	141,000l	159,000l
Usable cargo volume	172,40 m <sup>3</sup>	208,20 m <sup>3</sup>

### 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 (14<sup>th</sup> June)
- 2014 A350-900 EASA (30<sup>th</sup> September) and FAA Type certification (12<sup>th</sup> November)  
First A350-900 delivery to Qatar Airways (22<sup>nd</sup> December)
- 2015 A350-900 Entry Into Service with Qatar Airways (15<sup>th</sup> January)
- 2016 A350-1000 first flight (24<sup>th</sup> November)
- 2017 A350-1000 EASA and FAA Type certification (21<sup>st</sup> November)
- 2018 First A350-1000 delivery to Qatar Airways (20<sup>th</sup> February)  
A350-1000 Entry into Service with Qatar Airways (24<sup>th</sup> February)  
A350-900ULR Entry into Service with Singapore Airlines (11<sup>th</sup> October)

## Facts & Figures

### Aircraft list prices (2018):

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