



QATAR AIRWAYS A350 XWB

FACTSHEET

Qatar Airways demands excellence for its passengers. This is why they chose to be the launch customer for the most modern widebody aircraft flying today – the Airbus A350 XWB.

The Qatar Airways A350 XWB (Xtra Wide Body) provides outstanding levels of comfort and reliability using the latest state-of-the-art technology for a totally unique passenger experience.

The A350 XWB is the latest member of the leading Airbus wide-body product line.

The A350 XWB was built, above all, for passengers' well-being. Wider seats in both Business and Economy classes, the lowest twin engine noise level of any aircraft, advanced air conditioning technology and full LED mood lighting, all work together to enhance the comfort of passengers, while reducing fatigue after a long flight.

The A350 XWB's innovative technology also improves performance in operation. Its revolutionary airframe and simplified systems have optimized fuel burn, maintenance costs and reliability, and its engines have the lowest CO2 emissions of any in the widebody category.

With the unique combination of passenger comfort, technological innovation, lowest seat mile cost in its class and unprecedented revenue potential, **the A350 XWB has the extras that make the difference.**

Corporate Facts

- Qatar Airways ordered 80 A350s (37-900 and 43-1000) and is the first operator of this type, as Global Launch Customer.
- Qatar Airways experts participated actively in the design and definition of the A350 XWB programme in close collaboration with Airbus.
- The first two A350 XWB aircraft operated a double-daily flight to Frankfurt from Doha's new hub, Hamad International Airport, followed by a planned triple daily service to Singapore, a daily flight to Munich in October 2015, Philadelphia in January 2016 and Boston in March 2016.
- The A350 XWB, in combination with the recently-introduced A380, offers unprecedented levels of interoperability and a highly efficient solution to meet the long-haul passenger demands of the rapidly expanding Qatar Airways network.



Aircraft Specs

- The A350 XWB is the latest generation of long range civil aircraft built and comprises 53% light-weight composite materials.
- The Qatar Airways A350 XWB aircraft is powered by two new-generation Rolls Royce Trent XWB engines, each providing 84,000lb of thrust. The Trent XWB is both the most fuel efficient and cleanest (in terms of emissions) engine flying today and Rolls-Royce expects that it will remain so for some time. These engines were chosen for their optimal performance on key routes for Qatar Airways and environmental design specifications.
- The A350 XWB brings together the very latest in aerodynamics, design and advanced technologies. Its fuel consumption is 25% lower than the competition, thanks to a lower weight achieved with 70% advanced materials (including 53% composites).
- The wings of the A350 XWB are made from the world's largest single pieces of carbon-fibre composite material.

Specs:

- Height: 17.05m
- Maximum takeoff weight (highest): 275 tonnes
- Overall length: 66.61m
- Maximum Cabin width: 5.61m
- Wingspan: 64.75 m
- Wing Area: 442.9 m²
- Fuselage diameter: 5.96m
- Maximum fuel capacity: 138,000 litres
- Maximum Altitude: 43,100ft
- Cruising speed: Mach 0.85
- Maximum speed: Mach 0.89 (944km/h at FL450)

Aircraft Design Elements

Configuration

- The A350 XWB is very easy to recognise visually, with its cockpit windows surrounded by a distinctive black line.
- The highly aerodynamic wing has been designed to adapt during the flight, morphing while airborne, changing shape for maximum aerodynamic efficiency. Its shaped winglets makes the A350 XWB look like no other aircraft and contributes to its remarkable fuel efficiency.
- The Xtra Wide Body cross-section of the A350 XWB allows exceptional flexibility and efficiency of configuration, while preserving maximum comfort for its passengers.



Structure

- The A350 XWB is made with 53% composite material and a total of 70% advanced materials combining titanium and aluminium alloys.
- The use of composite material allows for significant weight savings. This directly benefits fuel consumption and lowers carbon emissions per passenger.
- Carbon fibre is a material that does not suffer from fatigue or corrosion, and facilitates significantly lower maintenance costs.

Flight Deck

- The A350 XWB features the unique Airbus common flight deck concept, allowing the pilots of any other Airbus fly-by wire type aircraft to feel instantly at home.
- The A350 XWB shares a common type rating with the A330; this reduces pilot training by 65%.

Systems

- The A350 XWB features only two hydraulic circuits plus two electric flight control actuation systems; this technology saves weight and reduces maintenance costs.
- Variable camber and differential flap setting improve the aerodynamic efficiency of the aircraft and contribute to fuel burn reduction.
- Brake to Vacate (BTV) and a Runway Over-run Protection System (ROPS) enhance the situational awareness and operational safety of the aircraft.

Operations

- The A350-900 is certified with very low exterior noise levels: it has a margin of 21 EPNdB vs ICAO chapter 4 limit
- EASA has given a 370-minute ETOPS certification to the A350-900, being the first new aircraft type ever to receive such a level of ETOPS approval prior to entry into service (EIS).

Passenger Experience

Interior

- The Qatar Airways A350 XWB is a perfect combination of innovative airline product design and intrinsic comfort of the cabin, which is the hallmark of this new aircraft.
- The seats and special amenities in each of the cabin classes are proprietary to Qatar Airways, and have been crafted in close collaboration with the respective manufacturers.
- Passengers will benefit from a new boarding experience upon arrival at the aircraft, achieved by a unique dome-ceiling entrance with welcome light distribution.



- The cabin consists of 2 classes:
 - **Business Class:** 36 seats in a 1-2-1 configuration. Featuring an 80” full flat bed, 17” HD in-flight entertainment screen. All seats have direct aisle access.
 - **Economy Class:** 247 18-inch wide seats in a 3-3-3 configuration, with up to 32-inch pitch. A 10.6” in-flight entertainment screen, and more space at shoulder level for passengers in window seats, thanks to a vertical side wall panel design.

Comfort and well-being

Uniquely comfortable configuration

- The Qatar Airways A350 XWB features the state of the art Oryx entertainment system, with up to 3,000 entertainment options on individual screens in all classes.
- This entertainment system will be operated on the latest digital system from Thales called Avant and includes a digital handset, offering a ‘second screen’ experience. This will allow, for example, passengers to have the moving map displayed on the handset to follow a journey, while at the same time watching a movie on the main screen.
- A USB and Apple Iport socket is available in all classes to enjoy entertainment from a passenger’s own device and for re-charging the device.
- LED mood lighting reduces the effect of jetlag and contributes to passenger comfort.
- GSM, GPRS and Wi-Fi is available in all classes for use on laptops, phones and tablets.
- The widest seats of any jetliner in its category, with generous room in all classes.
- Window seats are truly *window seats*, with wide panoramic windows that go from fully transparent to 100% light-blocking, offering Xtra flexibility and customised comfort.
- A flat floor smooth design offering Xtra legroom for all passengers.
- Optimal cabin air quality (air exchange every two to three minutes, advanced air conditioning technology and unique control of humidity level) providing passengers with an Xtra relaxing flight, for more comfort and less fatigue on arrival.
- A smooth flight is assured by virtue of the A350’s advanced flight control system, which constantly adapts to minimise gust induced wing loading.

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