A380

- The A380, the first new aircraft programme of the 21st century, opened a new standard in aviation.
- Airbus would never have been able to reach its current leadership position without this aircraft program. It has made it possible to compete with others competitors by offering a full range of products.
- The A380 programme has been the driver of the transformation of the small Airbus-Industrie into the integrated Airbus company being now a leader in world aviation.
- The latest Airbus aircraft programmes have benefited from the many innovations and processes developed with the A380.
- The A380 will continue flying, with Airbus support, for decades to come.
- Airbus Services continues to support and to introduce operational improvements for the in-service fleet.
- Airbus is engaged in A380 cabin refurbishing with several of its customers who are re-investing millions Euros in their planes to upgrade their cabin for passenger comfort. (today Singapore Airlines, Qantas and Emirates)
- The A380 with its unique capacity offers an unbeatable economic value proposition to operators on dense routes (ex. Hajj ops with Malaysian Airlines, ANA on Narita-Honolulu route...), and especially out of congested airports.
- A380 is passengers’ favourite aircraft.
- The A380 is the only aircraft to offer more than 500 seats with high profitability.

Orders and Deliveries

- 251 net orders
- 251 A380s have been delivered to 14 customers
- A380 operators:
  - Asiana, British Airways, China Southern, Emirates, Etihad, Korean Air, Lufthansa, Malaysia Airlines, Qantas, Qatar Airways, Singapore Airlines, Thai Airways, ANA.

In-Service Status

- The A380 is operated on 70+ destinations
- Over 400 airports worldwide are A380 compatible
- Since its entry into service, the A380 has carried over 300 million passengers
- Total cycles: above 800 000
- Total flight hours: more than 7 300 000
- Over 50% of A380 capacity is from/to/within the Asia-Pacific region, of which around 15% is on regional flights within Asia (OAG 2017)
- Operational reliability 99+%
Community Benefits

- The A380 is and remains the best solution for growth; especially where airport-capacity is limited and when traffic growth is doubling every 15 years.
- A380 noise footprint: half the noise of previous generation aircraft
- Lower emissions, significantly below international guidelines:
  - NOx 30% below CAEP/6, 16.4 EPNdB noise margin to ICAO Chapter 4
  - 33% better fuel burn and CO2 emissions compared to previous generation aircraft.

Cabin figures

- A380 the best cabin in the sky
- Unique passenger experience
- Wider cabin for wider seats (up to 19 inches in economy)
- Quietest and smoothest flight
- More personal space
- The total cabin surface area of the A380 is 550m²:
  - Main Deck (MD) cabin, the widest of any airliner, is 20” (51cm) wider than the B747 cabin
  - Upper Deck (UD) cabin, the first full widebody UD cabin ever, is 71” (180cm) wider than the B747 cabin:
- Making magic out of light with larger windows and cabin mood lighting
- The A380 offers clean air via HEPA filters (High Efficiency Particulate Arrestor) filters 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
- Air conditioning: 6 air inlets (compared to 4 typically) for quiet, draught free cabin air delivery
- The lowest number of passengers per temperature control zone of any aircraft flying today
- The cabin is split into 15 different temperature control zones, the temperature in each can be varied between 18 and 30 degrees C.
- The A380 allows 545 seats in a standard 4-class configuration with no compromise on comfort.
- The A380 cabin enables airlines to accommodate 232 more seats (+75%) than 747-400 and 199 more seats (+60%) than 747-8 in a 4 class layout configuration.

IFE and Connectivity

- A single simple and intuitive touch screen interface for cabin crew to control all cabin systems
- 4th generation In-Flight Entertainment (IFE) experience
- Fibre-optic IFE backbone for faster access and streaming.

Superior performance and airport operations

- It allows better take-off, landing and climb performance.
- A380 needs ~300m shorter runways to take off and land than competing large aircraft
- It has a lower approach speed (the same as the A320)
- Range capability (8,000 nm – 15,000 km) in standard 4 class, 545 seats configuration
- It offers a cruise Mach number of M 0.85
- Standard turn-around-time: 90min including boarding time less than 30mins and disembarking time, less than 15 mins.
- Direct upper deck servicing allows the same turn-around-time as existing wide-body aircraft.
- A380 is the largest civil aircraft in history (max seating capacity of 853), with a maximum take-off weight of 575 tonnes
- Millions of passengers have flown the A380 and more will fly this unique experience over decades to come – Airlines continue to invest in their A380 cabin product to keep the A380 flagship of their fleets.

Programme main dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>December 2000</td>
<td>A380 launch</td>
</tr>
<tr>
<td>6 April 2004</td>
<td>First convoy</td>
</tr>
<tr>
<td>27 April 2005</td>
<td>First A380 flight took place in Toulouse</td>
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<tr>
<td>25 October 2007</td>
<td>First A380 entry into commercial service with Singapore Airlines</td>
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<tr>
<td>June 2020</td>
<td>Last A380 convoy to Toulouse</td>
</tr>
<tr>
<td>December 2021</td>
<td>End of A380 production and last A380 delivery (123rd to Emirates)</td>
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Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
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<tbody>
<tr>
<td>Overall length</td>
<td>72.7 m</td>
</tr>
<tr>
<td>Height</td>
<td>24.1 m</td>
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<tr>
<td>Fuselage diameter</td>
<td>7.1 m</td>
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<tr>
<td>Maximum cabin width Main deck</td>
<td>6.5 m</td>
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<tr>
<td>Upper deck</td>
<td>5.8 m</td>
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<tr>
<td>Cabin length</td>
<td>49.9 m</td>
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<tr>
<td>Wingspan (geometric)</td>
<td>79.8 m</td>
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<tr>
<td>Wing area (reference)</td>
<td>845 m²</td>
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<tr>
<td>Wing sweep (25% chord)</td>
<td>33.5 degrees</td>
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<tr>
<td>Wheelbase</td>
<td>31.9 m</td>
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<tr>
<td>Wheel track</td>
<td>14.3 m</td>
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Operating data

<table>
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<th>Parameter</th>
<th>Value</th>
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<tr>
<td>Maximum takeoff weight</td>
<td>560 t / 575 t</td>
</tr>
<tr>
<td>Maximum landing weight</td>
<td>386 t / 394 t</td>
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<tr>
<td>Maximum zero fuel weight</td>
<td>361 t / 369 t</td>
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<tr>
<td>Maximum fuel capacity</td>
<td>320,000 litres</td>
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<tr>
<td>Engines</td>
<td>Rolls-Royce Trent 900 or Alliance GP 7200</td>
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<tr>
<td>Engine thrust range (lb slst)</td>
<td>70,000</td>
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<tr>
<td>Typical passenger seating</td>
<td>545 (4-class)</td>
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<tr>
<td>max seating capacity</td>
<td>853</td>
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<tr>
<td>Range (w/max. passengers)</td>
<td>8,000 nm</td>
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<tr>
<td></td>
<td>15,000 km</td>
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<tr>
<td>Long Range Cruise</td>
<td>M 0.85</td>
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A380 facts

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Since July 2019, Emirates operates the world’s shortest scheduled A380 service, flying a distance of 349 kilometres with a total travel time of less than one hour from Dubai to Muscat, Oman.

- Each A380 consists of around 4 million individual components with 2.5 million part numbers produced by 1500 companies from 30 countries around the world.
- 19,000 bolts are inserted inside the fuselage to attach each of the 3 main parts, plus 4,000 to attach both wings.
- The aircraft is certified to a max seating capacity of 853.
- A380 wing area is 845m². This enables the A380 to land 20 knots i.e. 35kmh slower than a 747 at its maximum landing weight of 386 tonnes, and contributes to reduce noise around airports.
- The span of the horizontal stabiliser is 30.4 m, this is just a bit less than the span of an A320 wings (34.9 m).
- The volume of the three decks (including cargo/baggage hold) is 1,570 m³, enough space for 35 million ping-pong balls.
- The two passenger decks of the A380 have a total area of 550 m², the same as three tennis courts (singles), or 1¼ basketball courts (usable floor area is 50% higher than in the 747-4).
- 5000 light scenarios on board, using a wide choice of fluorescent and LED technology.
- The aircraft has 220 windows and 16 doors.
- During take-off the wing will flex upwards by over 4m.
- The wing span is 79.8m and the wings are swept at an angle of 33.5 degrees.
- The maximum design load on the 6-wheel body gear is 260 tonnes - equivalent to 200 VW Golfs.
- The weight of the external paint of the A380 (topcoat plus primer) is 531 kg.
- The 280,000 lb of take-off thrust across the wing is the horsepower equivalent of around 2,500 family cars (at 110 hp each).
- The engine’s 116 inch (2.95 m) diameter fan blades suck in over one and a quarter tons of air every second.

Link to more information on our Newsroom: here
https://www.airbus.com/aircraft/passenger-aircraft/a380.html