

Thomson Airways Boeing 787 Dreamliner

TUI Travel PLC has ordered 13 787 Dreamliners with purchasing rights for a further 13 aircraft. Thomson Airways is the UK launch customer for the Dreamliner and expects delivery of the aircraft in early 2012.

Offering a smoother, quieter and greener flying experience, the Boeing 787 Dreamliner represents a new generation of aircraft. It sets the highest standards, offers greater efficiency, increased passenger comfort and well-being plus an overall reduction of carbon emissions.

With its systematic use of carbon-fibre components, the Dreamliner's unprecedented environmental performance will make it an incredibly valuable asset in reducing carbon output. It is a lighter aircraft so can fly further than current aircraft models.

Better for you

Relaxation is paramount onboard the Dreamliner- from more spacious storage to a healthier cabin environment, the emphasis is on passenger comfort and well-being, ensuring that the journey is enjoyable and becomes part of the holiday.

- **Reduced travel-related fatigue** – new composite fuselage structure enables lower altitude cabin pressure as the internal pressure will be equivalent to 6,000ft as opposed to the standard 8,000ft. Therefore, the body adjusts more easily to flying, resulting in less travel-related headaches, sickness or fatigue.
- **Reduced jet lag symptoms** – use of advanced materials in the manufacture of the fuselage (which are corrosion resistant) and improved technology means higher cabin humidity when compared to other commercial jets. This will reduce symptoms of dryness and dehydration, which can cause jet lag.
- **Good for nervous fliers/air sick customers** – the Dreamliner's unique system senses air pressure differences and turbulence in advance and then adjusts itself to minimise and iron out any unwelcome side effects. This results in a reduction in motion sickness of up to eight times and a much smoother ride all round.

- **Breathe cleaner air** – current aircraft have very clean cabin air, relying on technology used in operating theatres. The Dreamliner will have even better air quality due to an innovative purification method known as "gaseous filtration", ensuring less unpleasant smells and reduced throat irritation.



- **Enjoy a quiet ride** – thanks to quieter engines and state-of-the-art aerodynamics.
- **Bigger windows and controllable light** – the Dreamliner has the largest windows of any commercial aircraft. Every customer effectively has a window seat with a view of the horizon. Electronic dimmers on all windows (no pull down blinds) mean passengers can determine the degree of light they let in and still see outside when the window is partially dimmed.
- **More personal space**- the Dreamliner cabin is generally wider than comparable mid-sized jets and provides an extra 4cm width per seat than any other aircraft. The aircraft boasts more than 6cm greater width in its aisles than typical two-aisle airplanes and also has the largest overhead bins in the industry, designed around suitcases that passengers typically carry. More spacious toilets are wheelchair accessible with plenty of room to change babies.



Better for the environment

- **Fuel use** – the aircraft uses 20% less fuel than comparable current generation jets
- **Emissions** – carbon dioxide emission are created by fuel consumption and 20% less fuel used means 20% less CO₂ produced. The Dreamliner aircraft also generates 30% less nitrous oxide when compared to a Boeing 767.
- **Noise** – new engine technology means the aircraft will generate up to 60% less of a noise footprint during take-off and landing than comparable, current aircraft. The plane is not only less noisy in the air, its even quieter on the ground, with its engine sounds of 85dB destined to never leave the airports perimeters
- **Point to point travel** – the Dreamliner can fly to smaller destinations efficiently (current generation wide bodies can do this but it is not economic to operate them on these routes). Fewer take offs and landings will therefore reduce fuel use and pollution.
- **Manufacturing waste** – composite airframe means less waste such as aluminium scrap.
- **E connectivity** – the aircraft communicates with engineers and other departments via a wireless network, meaning data can be transferred as the Dreamliner arrives at the gate. This increases safety and cuts maintenance time and costs, with knock on customer benefits.
- **Electronic flight bag** – computer software providing a vast range of information for pilots on operating the aircraft. Wireless transmission means information can be updated in real time and software will also help pilots to calculate optimum aircraft performance. This replaces heavy on board paper manuals thereby adding to aircraft fuel burn/environmental benefits.
- **Flight deck presentation** (integrated approach navigation) – this technology enables pilots to fly and approach in 3D (currently 2D). Aircraft will guide the pilot on descent, reducing their workload. This system will provide maximum information for pilots to make decisions at critical take off and landing times.

Technology

- **Head up display** – this provides pilots with instrumentation projected directly in front of their field of vision, enabling them to look at the data and approach at the same time thereby improving safety standards.