



AltoVolo Opens Limited Edition Orders For Sigma eVTOLs.

November 1st, 2025

The team at AltoVolo have made significant progress towards the commercialisation of their launch vehicle, the Sigma. Potential customers can now apply for a build slot with an initial commitment of £860. Having validated their autonomous control system, and built a rather impressive flight simulator, this innovative company has now opened the world's first online eVTOL vehicle configurator. Visitors to the AltoVolo website can define the finest details of their aircraft, down to the seat belt and stitch line colour. "We will be delivering an ultra-refined hybrid electric aircraft. We believe there are thousands of customers for this type of cutting-edge technology" says founder and CEO, Wood. "Much like you would expect from a supercar brand we are focused on performance and technology, rather than minimising costs".

- Featuring a hybrid-electric tilting jet propulsion system for improved efficiency and reduced noise.
- Resulting in a 500-mile range and cruise speed of 220mph.
- Over 80% quieter than helicopters making it suitable for use in residential areas.
- Safe stable flight is possible following failure of one jet, it also has a ballistic parachute.
- Compact size and light weight design, just 4.8m wide and 980kg with 3 passengers on board.

A Customer Focused Journey

AltoVolo will deliver an incredible customer experience, for what is going to be a very special purchase. Customers will be a part of a community of like-minded trail blazers, who will shape the direction of the product, and the business, as it emerges into the rapidly evolving eVTOL market. To ensure the best ongoing ownership experience, AltoVolo is planning a global dealer and servicing network. With detailed consideration already being given to the maintenance, repair and overhaul schedules for Sigma aircraft. The first 100 customer units will be adorned with unique material finishes and have specification options that series produced vehicles will not have available.

Innovation In Every Detail

Noise is an important aspect for any aircraft. Whilst eVTOLs have been heralded for being a quieter transport solution, AltoVolo's engineers are now working on something quite different, optimising internal noise, vibration and harshness (NVH). Whilst creating the quietest and smoothest flight characteristics is going to be critical to winning over customers. AltoVolo is also developing a synthesised internal soundscape, to give enhanced feedback to pilots. The soundscape will morph and blend around the cabin, to feedback power load on each electric tilting jet. This will no doubt be quite an intriguing and sci-fi sonic experience.

A Word on Certification

To aid new eVTOL pilots, AltoVolo has built a simulator that is an exact replica of the Sigma's cockpit, produced in carbon fibre and soft leather. Customers can fly a digital twin of their exact customised aircraft and learn the controls before taking flight in the real world. The simulator allows pilots to gain accreditation towards their pilot's license. Reducing the training time required for new owners wishing to take to the sky.

The Sigma is one of few early aircraft that can take advantage of the new MOSAIC US certification rules. This regulatory framework dramatically reduces the cost for type certification. Allowing units to be sold as light sport aircraft (LSA) under the new powered lift category. Certification to EASA and CAA standards is also being pursued in parallel, with greater alignment between regions expected as eVTOLs become increasingly mainstream.

Technical description

Vehicle Layout:

- 3-seater hybrid electric VTOL aircraft

Performance:

- Hover Time: 18.5mins
- Payload: 270kg
- Cruise Speed: 220mph
- Top Speed: 290mph Est
- Hybrid Range: 510miles
- Electric Only Range: 260miles
- Estimated Noise Level, Take-off: 65-70dB(A) @ 100m
- Flight Ceiling: 10,000ft (3,050m)

Weight Dimensions:

- Max Take-off Weight: 980kg
- Length: 4,050mm
- Width: 4,800mm
- Packed Width: 2,280mm
- Total Height: 1,580mm

Safety:

- Ballistic Parachute 50ft deployment
- Thrust Vectoring Stability
- Control System Triple Redundancy

