



HARTZELL EARNS FAA TYPE CERTIFICATE FOR FIRST PART 35 ELECTRIC ENGINE PROPELLER, DESIGNED AND TESTED WITH BETA TECHNOLOGIES

News / Manufacturer



Hartzell Propeller has received FAA Part 35 Type Certification for the first propeller designed specifically for advanced air mobility aircraft. The company worked with BETA Technologies to achieve this landmark, conducting all testing of its propeller on BETA's proprietary electric propulsion systems, which are designed and manufactured in-house by BETA. This signifies the maturity, certifiability, and commercialization of the AAM industry, and next-generation electric aviation. It is also a huge practical step forward in the industry's collective ability to support the growing demand for safe, low-cost, and efficient urban and regional air transport.?

Hartzell President JJ Frigge commented: "Hartzell Propeller is very pleased to work with BETA Technologies on this AAM breakthrough development. Our design specifically for BETA Technologies is a five bladed, carbon fiber, ground adjustable fixed pitch propeller that will have future applications for the entire AAM industry."

Kyle Clark, Founder and CEO of BETA Technologies stated: "With its decades of experience

across all types of aircraft, Hartzell Propeller has understood from the beginning the unique challenges and opportunities of electric aviation. Their engineering precision and deep certification experience have assisted us as we bring this aircraft to market and walk through our own certification steps. We're proud to have been their counterpart on this project, and look forward to getting this certified propeller in the air as we continue the process of certifying our electric engines, as well as our ALIA CTOL and VTOL."

With this certification, Hartzell's propeller is the first to earn FAA type certification specifically for integration with electric propulsion systems. These systems, like BETA's, are capable of managing a wide range of different loads and conditions — from regenerative braking to startup — all of which Hartzell's propellers are uniquely designed to support. The approval comes after thousands of hours of ground and flight testing over four years, and verifies that the propeller exceeds the rigorous performance and safety standards of FAA Part 35.

This is a critical endorsement from the FAA of the efficacy and safety of Hartzell's propeller — as well as the performance of BETA's electric engines, which provided the foundation for its testing.

Hartzell and BETA have worked on the propeller development since 2021, from initial aerodynamic modeling and design to full-scale testing and validation. The result is a high-performance, low-noise propeller tailored specifically for electric engines and this next generation of aviation. BETA will utilize Hartzell's propeller to optimize the performance and safety profile of both its ALIA VTOL and ALIA CTOL aircraft. The propeller is also built to serve all AAM aircraft that utilize similar electric propulsion systems.

21 JULY 2025

ARTICLE LINK:

<https://50skyshades.com/index.php/news/manufacturer/hartzell-earns-faa-type-certificate-for-first-part-35-electric-engine-propeller-designed-and-tested-with-beta-technologies>