

 PRESS RELEASE

TCab Tech partners with Safran on the electric motors for the E20 eVTOL

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Safran Electrical & Power, world leader in aircraft electrical systems, and TCab Tech, a leading eVTOL (electric Vertical Take-Off and Landing) aircraft company in China, have just announced a cooperation agreement to equip the E20 full-electric eVTOL aircraft with ENGINEUS™ electric smart motors.

TCab Tech is currently developing E20, a 5-seater passenger-carrying eVTOL aircraft equipped with six rotors – four tilt and two lift rotors – and a high gull-wing with a conventional tailplane design. The eVTOL targets a maximum design range of 200km, and a cruising speed of 260km/hour. Safran Electrical & Power will supply all six ENGINEUS™ electric smart motors. CAAC (Civil Aviation Administration of China) certification for the E20 is expected by 2025.



The ENGINEUS™ product line includes a broad range of electric motors with power outputs from single digit to 500 kW. The ENGINEUS™ 100, that will equip the E20, delivers more than 100 kW at take-off and features a fully integrated motor controller within the machine. The thermal management is provided by an optimized air-cooling system. The certification of the electric motor is planned for mid-2023.

“By providing our ENGINEUS™ electric motors to this revolutionary E20 eVTOL designed by TCab Tech, Safran Electrical & Power is participating to write a new page in urban air mobility. This project combines breakthrough technologies, a low-carbon footprint and a high level of safety due to the electric distributed propulsion”, said Thierry Sieg, Vice President of Sales & Marketing at Safran Electrical & Power.

“By bringing sustainable and innovative technologies, Safran is proud to partner with TCab Tech to further be present in this new emerging and environmentally friendly sector of the urban air mobility in China. We have high hopes for E20 eVTOL’s prospects in the Chinese market”, said Philippe Bardol, Safran General Delegate for China and CEO of Safran China.

“A world class motor partner is essential for the development of the eVTOL aircraft”, said Yon Wui NG, CEO & Founder of TCab Tech. *“We are excited to work together with Safran to integrate the E20 with high reliability and superb performance electric propulsion system. The smart motor has a well-advanced certification plan matching our E20 certification needs, which makes it an ideal choice for our eVTOL aircraft.”*

Safran is an international high-technology group, operating in the aviation (propulsion, equipment and interiors), defense and space markets. Its core purpose is to contribute to a safer, more sustainable world, where air transport is more environmentally friendly, comfortable and accessible. Safran has a global presence, with 76,800 employees and sales of 15.3 billion euros in 2021, and holds, alone or in partnership, world or regional leadership positions in its core markets. Safran is listed on the Euronext Paris stock exchange and is part of the CAC 40 and Euro Stoxx 50 indices.

Building on more than a century of relations with China, Safran is a major player in the Chinese aviation sector and operates in all segments: aircraft and helicopter engines, landing and braking systems, nacelles, wiring, flight control systems, power transmission systems, aero systems, aircraft seats and cabin, etc. Safran has more than 20 entities and about 2,000 people operating in China. Over the past 40 years, Safran has established strong partnerships with CAAC, all major Chinese airlines and key industrial players such as AVIC, AECC and COMAC. Safran not only is largely involved in major Chinese aircraft, helicopter and engine programs: C919, ARJ21, MA700, MA600, MA60, AC311A, AC312, AC352, WZ16, etc., but also has established MRO facilities with major Chinese airlines such as Air China, China Eastern Airlines, etc.

Safran Electrical & Power is one of the world's leaders in aircraft electrical systems. The company is a key player in equipment electrification and in the electric and hybrid propulsion sector. It has 11,500 employees across 13 different countries.

For more information: www.safran-group.com



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TCab Tech is the first eVTOL aircraft company in China dedicated in developing a vectored-thrust eVTOL aircraft called E20. 'TCab' metaphors 'Time Taxi', it carries the mission to offer affordable and time-efficient aerial-ridesharing services to the general public mainly targeting China and APAC.

For more information: www.tcabtech.com

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