



ABOUT OUR COMPANY

company, dedicated to the design and development of manned and unmanned innovate aircraft, with state-of-the-art technology and alternative propulsion systems, providing the next generation of aircraft that will cross the skies in the new era of aviation.





OUR MISSION

We seek to change the way we move intracity and intercity, ensuring the saftey of its passengers wether for personal ownership transportation on-demand air taxi, air bus, special operations, etc.

OUR VISION

Turn into a high-tech aircraft manufacturer to lead the aircraft world market.

OUR VALUES

Since our beginnings we have been characterized by perseverance, development and being visionary and innovative.

SAFETY IS OUR HIGHEST PRIORITY

All our aircraft are designed, with strong quality materials, redudant reliable systems. Multi-safety devices and computer-aided navigation, reducing operationals risks.

The evolution of technology and development in aviation industry, allows to considerably improve aircraft safety, the concept of safety has been changed, allowing that trough sophisticated simulations and tests during the development phase of an aircraft and sensors, problems can bee detected, wich can be corrected before it becomes an unsafe critical situation.













AIRCRAFT NEXT

GENERATION PROGRAM

At GRUG GROUP LLC, we are designing manned and unmanned aircraft of radical airframe designs, with new forms of propulsion (such as electric, hybrid and others), full glass cockpit avionics and computer-aided navigation, with high quality and safety standards.

All aircraft are fully customizable, and equipable in many ways to meet with multiple task including cargo, aerial photography, survillance, package delivery, military, law eforcement and other duties.





TECHNICAL DESIGN SPECIFICATIONS

BASIC INFORMATION

Design Gross Weight: 2,150 Kgf

Design Service Ceiling: 4,000 meters

Cruise Speed: 310 Km/h Max Speed: 410 Km/h

Climb Speed: 5 m/s

Expected Autonomy: 1 hour plus 15 minutes

of reserve

OVERALL DIMENSIONS

Height: 1.802 mts (with landing gear)

Span: 10.313 mts **Large:** 7.632 mts

FUSELAGE DIMENSIONS

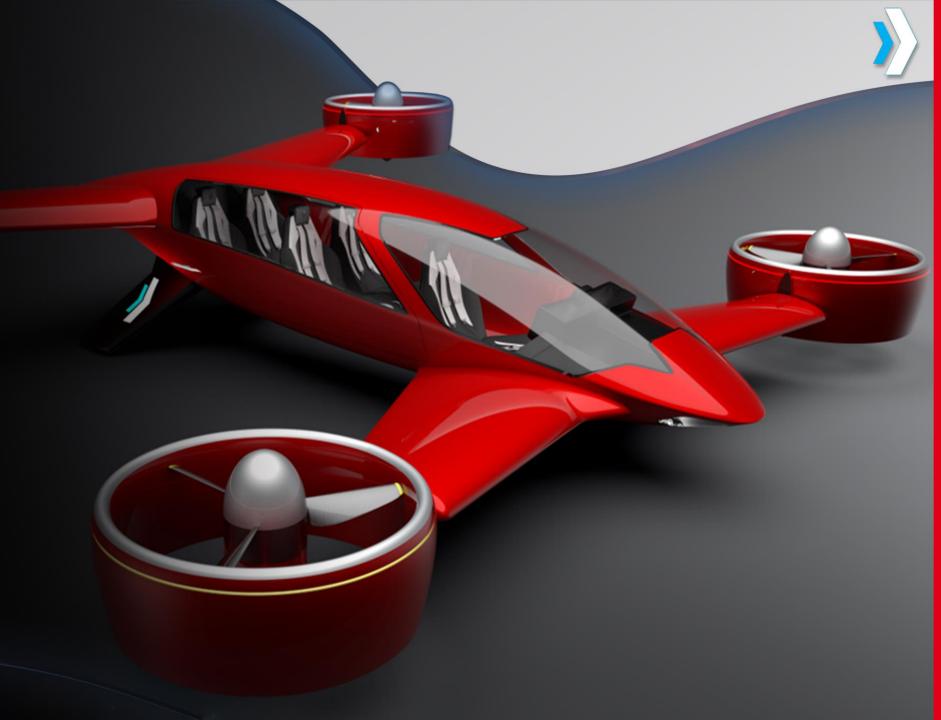
Height: 1..3 mts

Wide: 1.6 mts

Large: 7 mts

WINGS

Total Surface Area: 12.99 sq meters



DUCTED FAN OVERALL DIMENSIONS

Diameter: 1.593 m

Large: 0.569 m (duct)

Large: 0.95 m (Rotor hub)

PROPELLER

Diameter: 1.359 m

Rotor Hub diameter: 0.39 m

Number of Blades: 3

Type: Variable Pitch Propeller

eMotor

Emrax 268 (Twin Configuration)

Note: The second eMotor will be used for take off & landing in case of failure of the main eMotor.

When is not used will work as Generator for battery in flight recharge purpose.



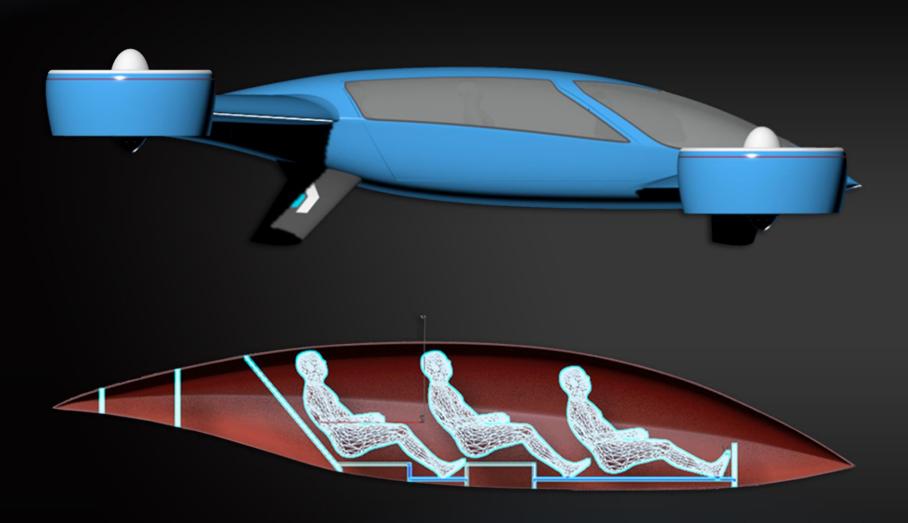
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The cabin space was designed to accommodate 05 persons of 1.9 mts maximum height (Comfortably).

This project is under development with the participation of the following companies as project partners:









eMOTOREMRAX 268 SPECIFICATIONS (EACH eMOTOR)
COMBINED COOLED = AIR + LIQUID COOLED

Maximal battery voltage [Vdc] and max load RPM: 650 Vdc (4500 RPM)

Peak motor power at max load RPM [kW]: 200

Continuous motor power RPM [kW]: 107

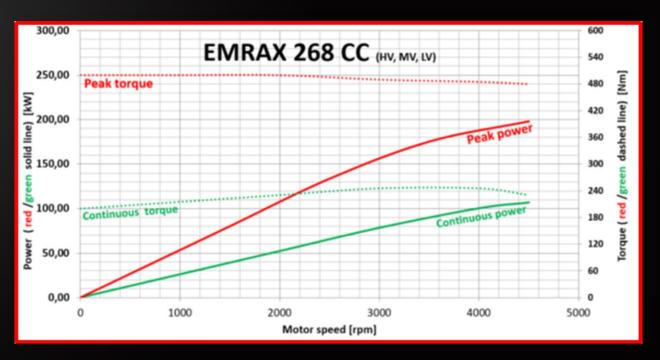
Maximal rotation speed [RPM]: 4500 (5500 for a few)

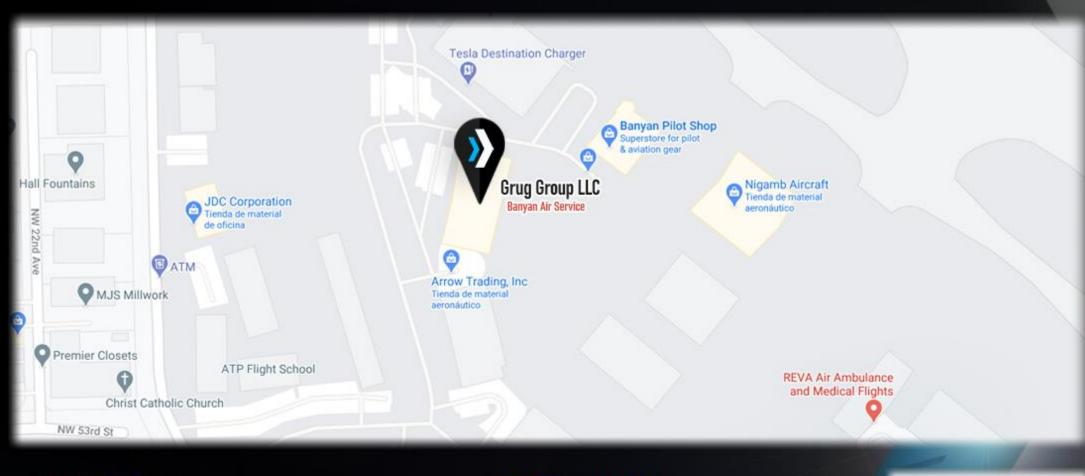
Maximal motor current [Arms]: 400

Continuous motor current [Arms]: 190

Maximal motor torque (for a few seconds) [Nm]: 500

Continuous motor torque [Nm]: 250





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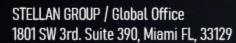






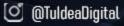






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