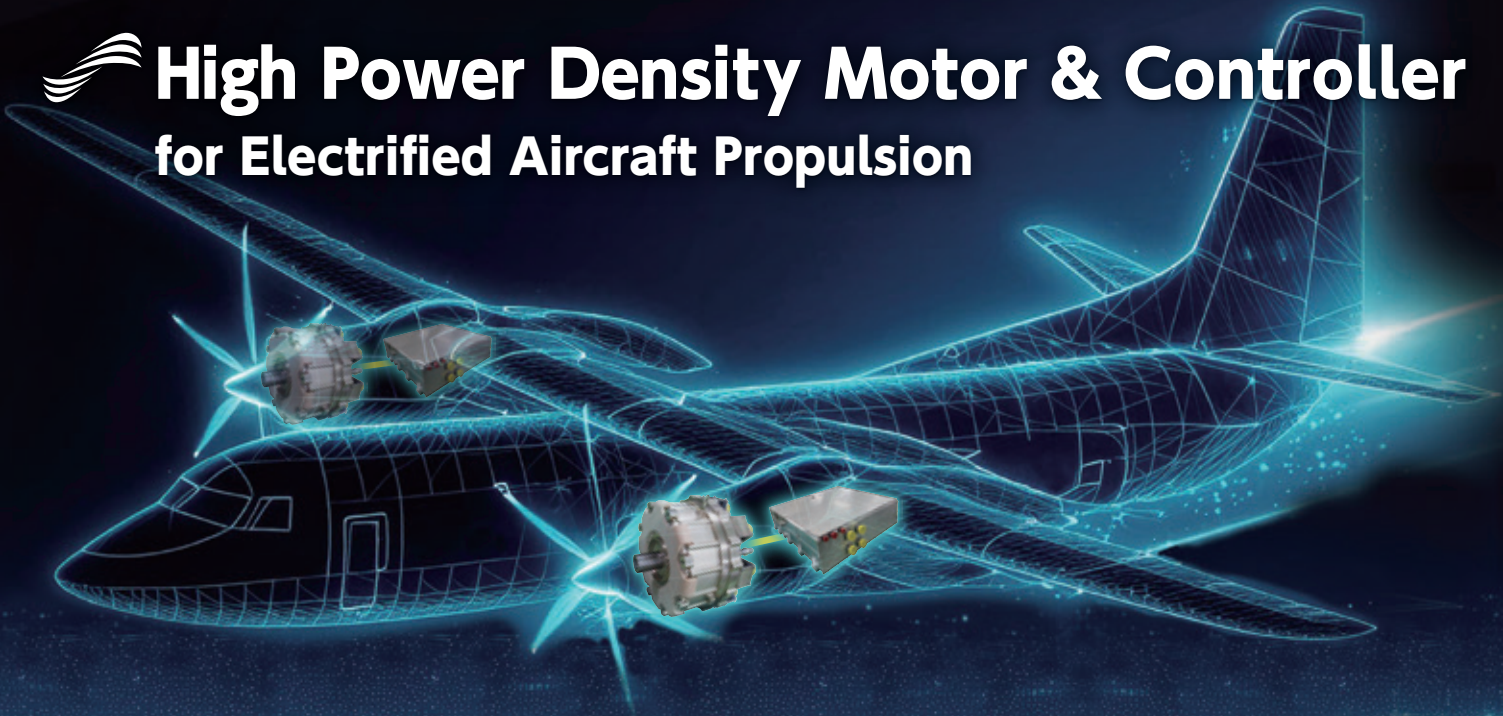


# High Power Density Motor & Controller for Electrified Aircraft Propulsion



## 500kW

R&D Products

High Power Density  
**5kW/kg**

High Voltage Design  
**750 to 1,000V**

Low Speed  
**1,900rpm**

High Torque  
**2,513Nm**

## 1MW

R&D Products

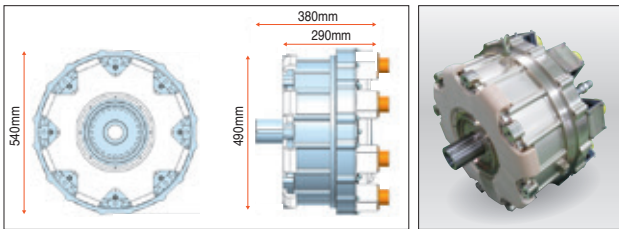
High Power Density  
**5~10kW/kg**

High Voltage Design  
**750 to 1,000V**

Low Speed  
**1,900rpm**

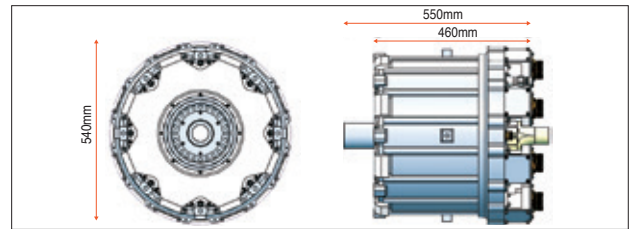
High Torque  
**5,026Nm**

Motor



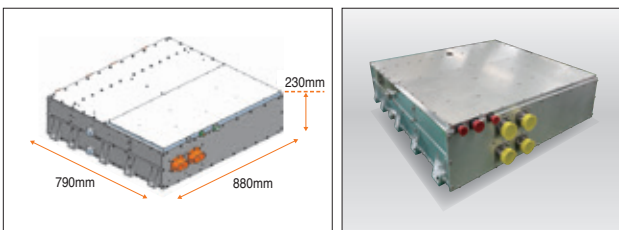
Motor output	500 kW (at rated load)
Power density	5 kW/kg
Efficiency	95% (at rated load)
Maximum speed	2,200 rpm
Continuous torque	2,513 Nm (at 1,900 rpm)

Motor



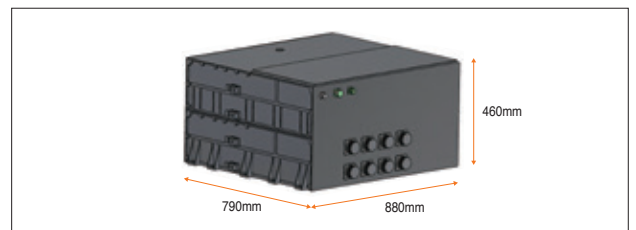
Motor output	1MW (at rated load)
Power density	5~10kW/kg
Efficiency	95% (at rated load)
Maximum speed	2,200 rpm
Continuous torque	5,026Nm (at 1,900 rpm)

Controller



Output capacitance	550 kW (at rated load)
Power density	5 kW/kg
Efficiency	98% (at rated load)
Input voltage	750 to 1,000 V

Controller



Output capacitance	1.1MW (at rated load)
Power density	5~10kW/kg
Efficiency	98% (at rated load)
Input voltage	750 to 1,000 V

## Expertise in Electro-Magnetics, Electrical Power Generation/Management

### Electrical Power System

#### AC & DC Generator System

- Generate electricity by driving power from engine or other power unit.
- High power density and oil cooling generation which supplies large capacity electricity to electrical bus.



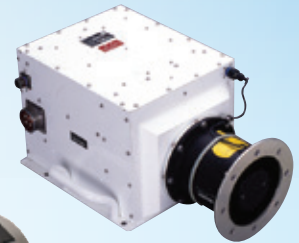
Generator-Engine



Generator Control Unit-Engine



Generator-APU



VSCF Converter

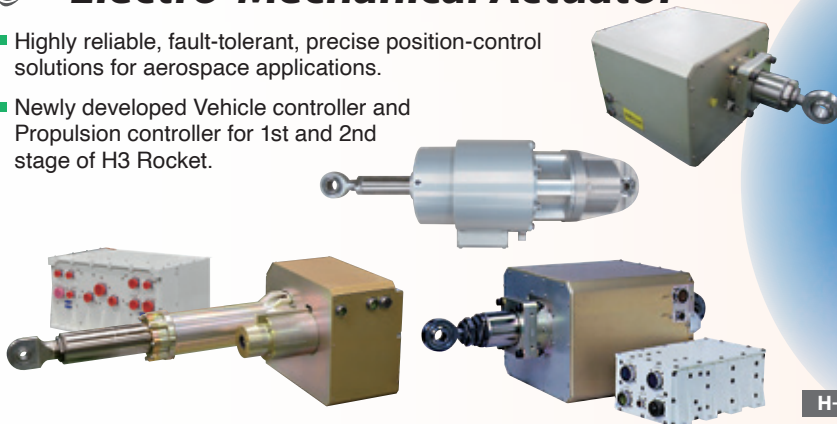
### Aviation Products

## Contributing to future space development with the highest quality products

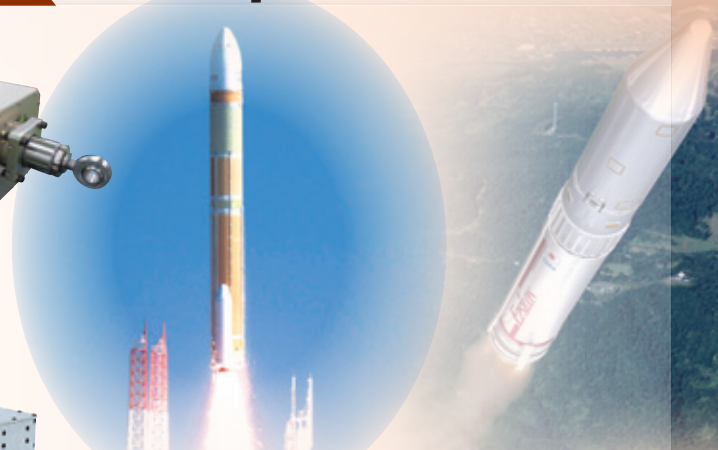
### Thrust Vector Control Electrical Actuator System

#### Electro-Mechanical Actuator

- Highly reliable, fault-tolerant, precise position-control solutions for aerospace applications.
- Newly developed Vehicle controller and Propulsion controller for 1st and 2nd stage of H3 Rocket.



### Space Products



H-IIA/B and H3 Launch Vehicle

Epsilon Launch Vehicle

©JAXA

SINFONIA TECHNOLOGY CO., LTD. continually upgrades and improves its products.  
Actual features and specifications may therefore differ slightly from those described in this catalog.

## SINFONIA TECHNOLOGY CO., LTD.

Shiba NBF Tower, 1-30, Shibadaimon 1-chome, Minato-ku, Tokyo, 105-8564, Japan ✉ [aero@sinfo-t.jp](mailto:aero@sinfo-t.jp) web <http://www.sinfo-t.jp>  
TEL +81-3-5473-1826 FAX +81-3-5473-1845

Code

E03-215

2406A03®