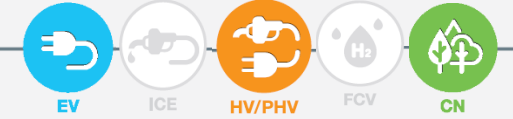


電動可変ピッチ機構付きモータハブユニット

Motor hub unit with electrical variable-pitch mechanism



開発の狙い Aims of Development

空飛ぶクルマの実現に向け、NSKの軸受やボールねじの技術を活用

For the realization of a flying car, this motor hub is leveraged by NSK's technologies such as bearing and ball screw.

高応答な推力特性を得つつ、エネルギー効率の最適化が可能となり、飛行安定性と航続距離に貢献

It provides responsive thrust characteristic and optimizes energy efficiency, contributing to flight stability and extended flying range.

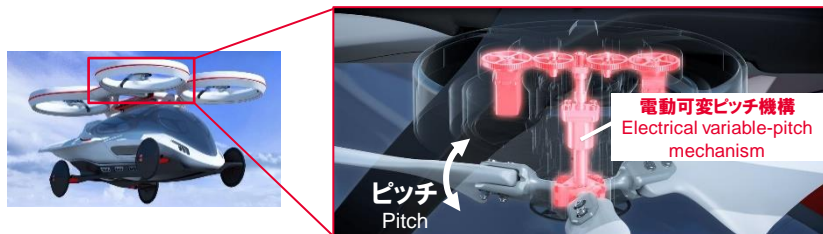
製品の概要と特長 (構造・原理) Products Overview and Features (Structure and Principle)

電動可変ピッチ機構とは

What is the Electrical Variable-Pitch mechanism

プロペラの回転を支え、ブレードのピッチ角度で推力を調整

This Motor hub supports the rotation of the propeller and adjusts the tilt of each blades to change the direction of thrust.



構造と特長

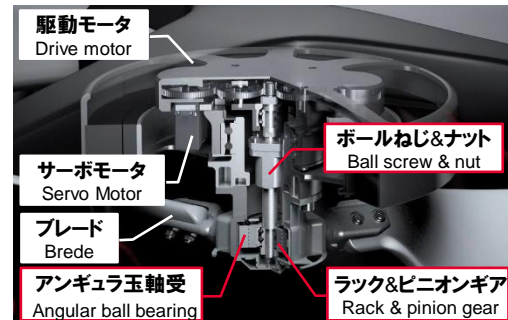
Structure & Features

モータサイズは同等のまま、推力を増減でき、省電力や小型化に貢献。また機体を安定させる際の推力の応答速度も向上。

This motor hub unit enables the thrust to be increased or decreased in maintaining the same motor size, so contributes to power saving and motor downsizing. And It increases the thrust response speed as well when stabilizing the body.

モータケースに内包することで、機体への搭載が容易。また水や埃に対して影響受けにくく、耐久性も向上。

The unit is compact and lightweight, fitting inside the motor casing, so it is easier to introduce into new airframe designs. In addition, it improves durability by reducing the impact of water and dust.



赤枠: NSK製品 / Red: NSK products