



EMBENTION
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Jornada “Descarbonización en la industria aeronáutica: tecnologías en desarrollo”

16.01.2024





MOVILIDAD AÉREA URBANA



VERONTE

ECOSYSTEM



AVIONICS



AUTOPILOTS



**MOTOR
CONTROLLERS**



**GIMBAL
CAMERAS**



**CONTROL
STATIONS**



**TRACKING
SYSTEMS**

Success Stories

UAV



BAE SYSTEMS



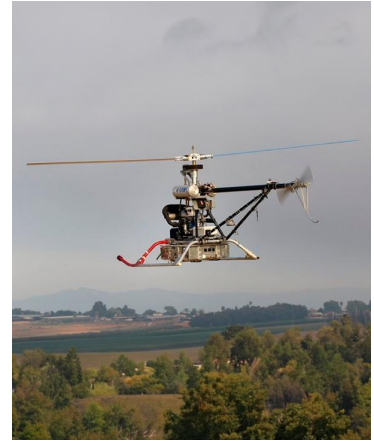
AIRBUS



*Aer*gility



IAI



DRONAMICS



DroneTech
UAV



RHEINMETALL



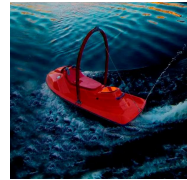
PARALLEL
FLIGHT TECHNOLOGIES



UNMANNED
AEROSPACE



ANIMAL
DYNAMICS



SCR

Success Stories

eVTOL



LIFT
AIRCRAFT



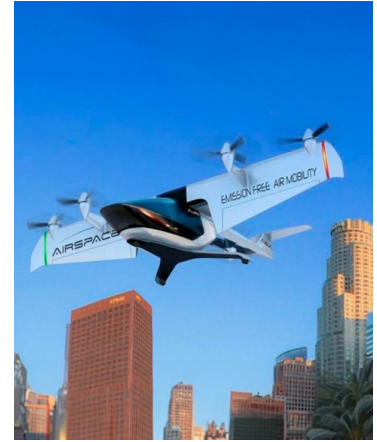
SKYFLY



SKYDRIVE



ASX
AIRSPACE EXPERIENCE TECHNOLOGIES



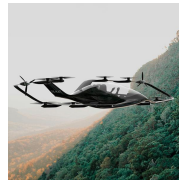
ROBINSON
HELICOPTER COMPANY



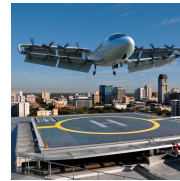
Jetzero



DORONI



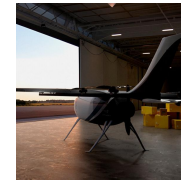
KATLA



TODYS
AVIATION



THE ePLANE
CO.



IMAGO



CIR

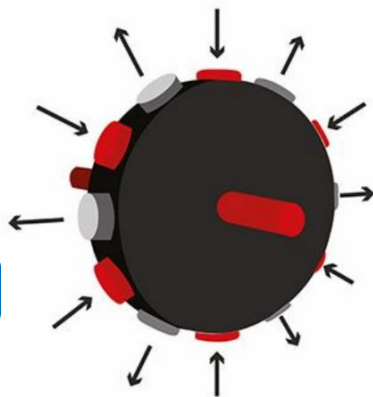
Tecnologías en desarrollo

MOTOR DE FLUJO AXIAL



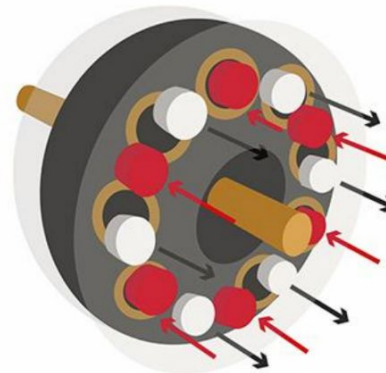
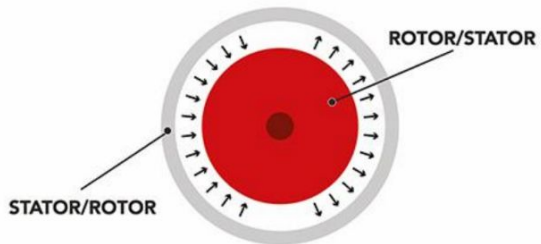
EMBENTION

87% EFICIENCIA



RADIAL FLUX

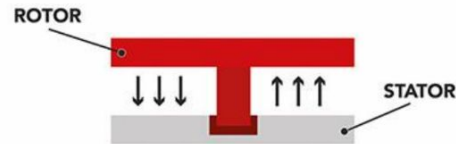
Flux is produced radially along the sideways of the rotor



96% EFICIENCIA

AXIAL FLUX

Flux is produced axially along the axis of the rotor



Tecnologías en desarrollo

MOTOR DE FLUJO AXIAL



MATERIALES LIGEROS


www.phi-power.com


PHI271R
240 Nm- 150kW- 12000 rpm- 19kg


PH382R
1400 Nm- 750 kW* - 6000 rpm- 3 or 6 phases- 78kg
* 6 phase version only

from Pikes Peak to Formula E - race proven axial flux technology
class leading power to weight ratio - flexible modular design - custom motors

Phi-Power AG
Fabrikstrasse 2
8330 Pfäffikon ZH
Switzerland

www.phi-power.com

+41 (0) 44 555 89 67
info@phi-power.com

VENTAJAS MOTOR FLUJO AXIAL (fabricado con materiales compuestos) vs MOTOR CONVENCIONAL

- Menor tamaño (hasta -50%)
- Menos peso (hasta -60%)
- Menor consumo eléctrico (hasta -10%)
- Mayor par motor (hasta +50%)
- Superior relación potencia - peso (hasta +100%)

Tecnologías en desarrollo

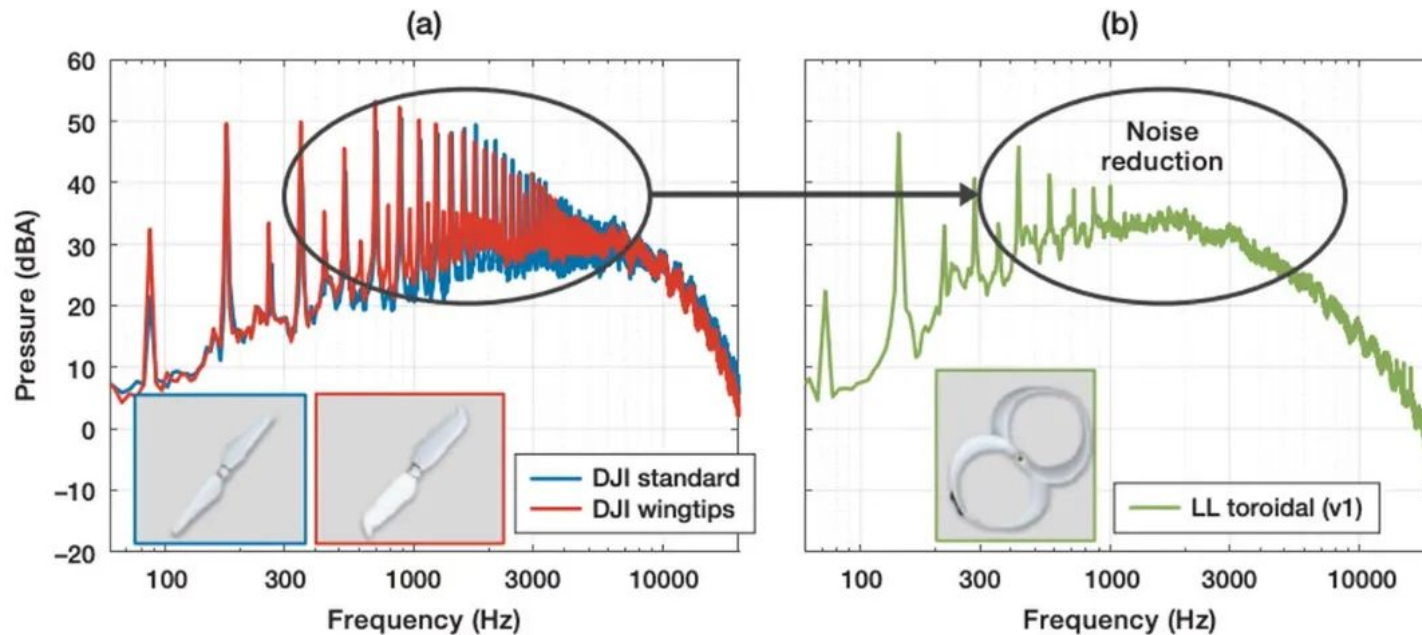


CONTAMINACIÓN ACÚSTICA



Tecnologías en desarrollo

HÉLICE TOROIDAL



The biggest noise reductions occur right where people will want them: in the 1-5 kHz frequency range MIT Lincoln Laboratory

33% REDUCCIÓN DE RUIDO

Tecnologías en desarrollo

HÉLICE TOROIDAL



MATERIALES LIGEROS

- Menor peso
- Mayor rigidez
- Mayor tiempo de vida útil



GRACIAS



EMBENTION

Enabling drones
to populate our skies



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INNOVATIVE SME

