



contact@duc-helices.com - www.duc-helices.com

New In-Flight Adjustable propeller

SWIRLBLACK-3

Full performance! *





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1st propeller fully developed by simulation:

- ✓ Aerodynamic simulation in CFDs under ANSYS Fluent
- ✓ Calculations of Mechanical Resistance & Vibration Behavior of the composite structure under ANSYS Composite PrepPost & Mechanical
- ✓ Simulation of acoustic emission under ANSYS Fluent
- \checkmark Validation of simulations by bench tests & flight tests

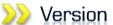
No performance compromise!

Full performnace thanks to Variable Pitch hub:

- **尽 Take-off thrust**
- Extremely low propeller weight; Titanium screws
- Management of the pitch by "Constant speed" box
- ▶ Low consumption & Noise reduction

Characteristics

- Carbon/Titanium blade & Carbon composite hub
- Low weight & inertia 6.2 kg (13.7 lbs) 3-blade Right
- Pitch angle adjustable, amplitude max. : 23°
- Compatible with hollow shaft engine (Rotax 912→915iS)
- Innovative high-precision manufacturing
- Shielding leading edge in Inconel®
- Diameter from Ø1620 to Ø1900mm (Ø64" to Ø75")



BASE: 3-blade SWIRLBLACK-3 prop. (7.2kg, 15.4lbs)

included Pitch indicator & Hydraulic setting wheel

CONSTANT SPEED: Hydraulic pump & Cst. Speed box (+0.74kg, 1.6lbs) +949 €





6968 €

