**Propeller Database:** [APC](https://www.apcprop.com/technical-information/performance-data/?v=7516fd43adaa)

**General Diameter Operating Range:** [17”, 22”]

**General Pitch Operating Range**: [0.45D, 0.75D]

* Only operate in the integer and half integer range
* Theoretical Best Pitches should be between 0.5D and 0.7D, but if MDAO uses data that tells us that the best is actually slightly outside this range, that can be valid as well

**APC Modifiers:**

* **E Thin Electric or Electric (electric only)**
* **F Folding Blade (electric only)**
* **MR Multi-Rotor (electric only)**
* **SF Slow Flyer (electric only)**
* **R Reversible ESC (electric only)**
* **Black Color (precedes diameter in part number)**
* **B4 Bundle Pack (2CW and 2 CCW propellers)**
* **D Durable Material (precedes diameter in part number)**
* **W Wide (chord)**
* **N Narrow (chord)**
* **NN Very Narrow (chord)**
* **PN Pattern**
* **P Pusher (or reverse rotation for electrics)**
* **LH Left-Hand Rotation**
* **L(B) Left-Hand Rotation with Button for folding pivot**
* **RH Right-Hand Rotation**
* **R(B) Right-Hand Rotation with Button for folding pivot**
* **ST Self Tightening**
* **C Carbon Material (40% Carbon / 60% Nylon by weight)**
* **T T-Mount**

[**PROPELLER PERFORMANCE DATA FILES HERE**](https://drive.google.com/drive/folders/18HotL1FUcZ7GsURN2R-16HsZ3V4vz29n?usp=sharing)

Possible Propeller Sources:

* [APC](https://www.apcprop.com/shop)
* XOAR
  + Carbon Fiber
    - <https://www.xoarintl.com/rc-propellers/electric-props/PJH-ET-F3A-Competition-Electric-Carbon-Fiber-Propeller/>
  + Painted Wood
    - <https://www.xoarintl.com/rc-propellers/electric-props/PJM-E-The-Sword-Electric-Beechwood-Propeller/>
* Additional Propeller/Motor Manufacturers