



mt-propeller



Type of Aircraft: Piper PA-42/42-720
FAA STC: i.p.
EASA STC: A.S.03604
Aircraft TCDS: A23SO
Propeller TCDS: P27BO

Applicable Aircraft
 Piper PA-42 Cheyenne III
 Piper PA-42-720 Cheyenne IIIA
Engines
 PT6A-41, PT6A-61



STC Kit Contents

Two 4-Blade Reversing and Full Feathering
 Constant Speed Propeller
 Two Full Composite Spinner (AFRP)
 One Airplane Flight Manual Supplement
 One Installation Instruction
 One Instruction For Continued Airworthiness
 One Operation and Installation Manual

MTV-16-1-E-C-F-R(P)/CFR230-37b

P-1090-()
 Doc. No. E-1670 (EASA + FAA)
 Doc. No. E-1671 (EASA + FAA)
 Doc. No. E-1672 (EASA + FAA)
 ATA 61-01-24 (E-610)

Propeller Specifications

Full Propeller Designation
 Propeller Hub

MTV-16-1-E-C-F-R(P)/CFR230-37b
 MTV-16-1-E-C-F-R(P)

Blade
 Blade Design
 Installed Propeller & Spinner Weight & Deice
 Maximum Diameter
 Minimum Diameter
 TBO

Milled single-piece aluminum hub
 CFR230-37b
 Scimitar, light-weight natural composite
 113 lbs each
 90.6 in.
 89.8 in.
 Currently 1500 hrs / 72 month (whichever
 occurs first)
 Target TBO is 3000 hrs

Replaces

3-Blade Hartzell Q Tip propellers
 4-Blade McCauley propellers

Advantages

- Best vibration dampening characteristics for almost vibration free propeller operations
- Bonded on stainless steel leading edge for best erosion protection of the blades
- Enhanced take-off distance and Climb Performance (MTOW, ISA)
- Cruise performance increased with 1800 RPM by approx. 4 to 5 kts (Mid GW, ISA)
- Approx. 60 lbs less weight than the original propellers
- Unlimited blade life
- More ground clearance for less FODs
- FOD repairable blades
- Significant inside and outside noise reductions
- Noise level is below 80 dB(A) according to ICAO Annex 16 Chapter 10
- Cabin noise is reduced by 4 to 6 dB(A)

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