



mt-propeller



Type of Aircraft: Mooney
EASA/LBA STC #: 10042833
FAA STC #: ---
Aircraft TCDS #
FAA: 2A3
EASA: EASA.IM.A.266
Propeller TCDS #
EASA: P.017
FAA: P3BO

Applicable Aircraft: M20R,
M20S
Engines: TCM IO-550-()



STC Kit Contents

One 4-Blade Constant Speed Propeller	MTV-14-D/188-30b
One Full Composite Spinner (AFRP)	P-840-2
One Airplane Flight Manual Supplement	Doc. No. E-2178
One Installation Instruction	Doc. No. E-2179
One Instruction for Cont. Airworthiness	Doc. No. E-2180
One Operation and Installation Manual	ATA 61-01-24 (E-124)

Propeller Specifications

Full Propeller Designation	MTV-14-D/188-30b
Propeller Hub	MTV-14-D
Blade	Milled single-piece aluminum hub
Blade Design	188-30b
Installed Propeller & Spinner Weight	Scimitar, light-weight natural composite
	60.8 lbs (27,6 kg) without De-Ice
	63.7 lbs (28,9 kg) with De-Ice
Maximum Diameter	74 in (188 cm)
Minimum Diameter	72 in (183 cm)
TBO	According to SB 1 () latest issue

Replaces

2-Blade McCauley; 3-Blade McCauley and 3-Blade Hartzell

Advantages

- Best vibration damping characteristics for almost vibration free propeller operations
- Bonded on stainless steel leading edge for best erosion protection of the blades
- Shorter take-off distance by approx. 80 m / 260 ft (SL, ISA conditions)
- Enhanced climb by approx. 5% to 8% (SL, ISA conditions)
- Cruise performance increased by approx. 3 to 5 kts (MTOW, ISA conditions)
- Approx. 2 lbs less weight than the original 2-blade propellers and approx. 25 lbs than the 3-blade propellers
- Unlimited blade life
- FOD repairable blades
- All models comply with the strict German Noise Regulation "Landeplatz Lärmschutz Verordnung" for unrestricted airport operations in Germany and other European Countries.

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