



mt-propeller



Type of Aircraft: P.68()
EASA STC: 10014445
FAA STC: SA03420AT
Aircraft EASA TCDS: EASA.A.385
Aircraft FAA TCDS: A31EU
Prop EASA TCDS: P.013
Prop FAA TCDS: N25NE

Applicable Aircraft

Vulcanair P.68, P.68B, P.68C, P.68 Observer,
P.68 Observer 2, P.68R

Engines

Lycoming IO-360-A1B, IO-360-A1B6

Remark: Blade CF183-53 (wide chord)
not yet FAA certified but validation
is in progress.



STC Kit Contents

Two 3-Blade Full Feathering Constant Speed
Propellers
Two Full Composite Spinner (AFRP)
One AFM Supplement
One AFM Supplement
One Installation Instruction
One Instruction For Continued Airworthiness
One Operation and Installation Manual

MTV-12-B-C-F/CF183-59b or
MTV-12-B-C-F/CF183-53 (wide chord)
P-1009
Doc. No. E-1370 (with CF183-59b blades)
Doc. No. E-2781 (with wide chord CF183-53 blades)
Doc. No. E-1371 (EASA), E-1444 (FAA)
Doc. No. E-1372 (EASA), E-1445 (FAA)
ATA 61-01-24 (E-124)

Propeller Specifications

Full Propeller Designation

Propeller Hub

Blade

Blade Design

Installed Propellers & Spinner Total Weight

Maximum Diameter

Minimum Diameter

Time Between Overhaul (TBO)

MTV-12-B-C-F/CF183-59b or
MTV-12-B-C-F/CF183 -53 (wide chord)
MTV-12-B-C-F
Milled single-piece aluminum hub
CF183-59b or wide chord CF183-53 blade
Scimitar, light-weight natural composite
112 lbs; 114,6 lbs with the wide chord CF183-53 blade.
72 in. (183 cm)
72 in. (183 cm)
According to SB 1 () latest issue

Replaces

2-Blade Hartzell HC-C2YK-2C(F)/FC7666A-()

Advantages

- Best vibration damping characteristics for almost vibration free propeller operations!
- Bonded on stainless steel leading edge for best erosion protection of the blades!
- Take-off distance over 50 ft remains unchanged with the CF183-59b blades!
- Take-off distance shortened by 55 m with the wide chord CF183-53 blades!
- Enhanced climb by approx. 3% (SL, ISA conditions, MTOW) increasing by altitude!
- Enhanced cruising speeds by approx. 2 to 3 kts (ISA, FL160, 4550 lbs GW) with the CF183-59b blades
- Plus 5 kts with the wide chord CF183-53 blades!
- Approx. 12 lbs less total weight than the original propellers!
- Unlimited blade life!
- Significant inside and outside noise reductions!
- ICAO Annex 16, Vol I, Part II, Chapter X EASA approved noise levels!
- FOD repairable blades!
- Some models equipped with the CF183-53 blades (wide chord) comply with the strict German noise regulations 2010- „Landeplatz-Lärmschutz-Verordnung“ for unrestricted airport operations in Germany and other European Countries in conjunction with the LIESE exhaust!

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