



mt-propeller



Type of Aircraft: SA227-AC, -AT
FAA STC: i.p.
EASA STC: A.S.03631
FAA Aircraft TCDS: A8SW, A5SW
FAA Propeller TCDS: P22BO

Applicable Aircrafts
 Fairchild Aircraft SA227-AC (Metro III)
 Fairchild Aircraft SA227-AT (Merlin IVC)
Engines
 TPE331-11U-601G, -611G
 TPE331-11U-602G, -612G

STC Kit Contents

Two 5-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-27-1-E-C-F-R(G)/CFRL250-103
 P-1096-()
 Doc. No. E-1691, E-1694
 Doc. No. E-1692
 Doc. No. E-1693
 ATA 61-01-24 (E-610)

Propeller Specifications

Full Propeller Designation
 Propeller Hub

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

MTV-27-1-E-C-F-R(G)/CFRL250-103
 MTV-27-1-E-C-F-R(G)
 Milled single-piece aluminum hub
 CFRL250-103
 Scimitar, light-weight natural composite
 308.6 lbs
 98.4 in.
 98.4 in.
 Currently 1500 hrs / 72 month (whichever
 occurs first), Target TBO is 3000 hrs

Replaces

4-Blade Dowty Rotol and 4-Blade McCauley propellers (Diameter: 106 in.)

Advantages

(Performance data are based on MTOW, SL, ISA)

- Best vibration dampening characteristics for almost vibration free propeller operations
- Bonded on stainless steel leading edge for best erosion protection of the blades
- No engine modifications (no cam or beta tube change)
- Ground roll distance reduced by approx. 50 m (165 ft)
- Take-off distance over 50 ft obstacle reduced by approx. 80 m (260 ft)
- Two engine and single engine climb performance slightly improved by up to 80 ft/min
- Cruise performance slightly improved by up to 2 kts
- Approx. 65 lbs less weight than the original metal propellers
- Unlimited blade life
- More ground clearance for less FODs
- FOD repairable blades
- Significant inside and outside noise reductions
- Aircraft noise level is about 5 dB(A) less than with the original metal propellers
- Cabin noise is reduced by 3 to 4 dB(A) depending on location

MT-Propeller Entwicklung GmbH
 Flugplatzstr. 1
 94348 Atting / Germany

Phone: +49 (0) 9429 9409 0
 Fax: +49 (0) 9429 8432
 sales@mt-propeller.com

MT-Propeller USA, Inc.
 1180 Airport Terminal Drive
 DeLand, Florida 32724

Phone: (386) 736-7762
 Fax: (386) 736-7696
 info@mt-propellerusa.com