

STC – DATA	v3.1b
Aircraft Type:	Jetstream 31/32
EASA STC:	10027439
FAA STC:	i.p.
TCCA Acceptance:	received
EASA Aircraft TCDS:	A.191
FAA Aircraft TCDS:	A21EU, A56EU
FAA/EASA Propeller TCDS:	P22BO / P.104
Applicable Aircraft:	BAE Systems Jetstream 3100 & 3200 Series
Engines:	TPE331-10UF-51()H, -10UR-51()H, -10UG-51()H, -10UGR—51() TPE331-12UA-71()H, -12UAR-71()H, -12UHR-71()H



BAE System Jetstream 3100 & 3200 with 5-blade MTV-27

STC Kit Contents

Quiet Fan Jet Propeller (QFJ) Series

Two 5-Blade Reversing and Full Feathering Constant Speed Propeller	MTV-27-1-E-C-F-R(G)/CFRL250-103
Two Full Composite Spinner	(AFRP) P-1096-()
One Master Document List	Doc. No. E-1764 (EASA)
One Airplane Flight Manual Supplement	Doc. No. E-1765 (EASA)
One Installation Instruction	Doc. No. E-1766 (EASA)
One Instruction For Continued Airworthiness	Doc. No. E-1767 (EASA)
One Operation and Installation Manual	ATA 61-06-10 (E-610)
One Supplement to MOM Part 1 / Part 2	Doc. No. E-1797 (EASA) / Doc. No. E-1798 (EASA)
Propeller Specifications	MTV-27-1-E-C-F-R(G)/CFRL250-103
Propeller Hub - Milled single-piece aluminum hub	MTV-27-1-E-C-F-R(G)
Blade - Scimitar, light-weight natural composite	CFRL250-103
Installed Propeller & Spinner Weight	308.6 lbs
Maximum Diameter / Minimum Diameter	98.4 in. / 98.4 in.
TBO	According to SB 1 () latest issue

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

Advantages (Performance data are based on MTOW, ISA)

- Best vibration damping characteristics for almost vibration free propeller operations
- Bonded on nickel alloy leading edge for best erosion protection of the blades
- No engine modifications (no cam or beta tube change)
- Ground roll distance reduced by approx. 130 m
- Take-off distance over 50 ft obstacle reduced by approx. 100 m
- Two engine and single engine climb performance slightly improved by up to 80 ft/min
- High Speed Cruise is slightly improved by up to 4 kts (15000 ft, ISA, 14500 lbs)
- 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 3 dB(A) less than with the original metal propellers. Cabin noise is reduced by 3 to 4 dB(A) depending on location.