

mt propeller

THE SILENT SEVEN



WORLD'S FIRST 7-BLADED PROPELLER CERTIFICATION FOR THE PILATUS PC-12 SERIES



ADVANTAGES OF THE MT 7-BLADE NATURAL COMPOSITE PROPELLER

World's first 7-bladed Unducted Prop FAN MT-Propeller is now supplemental type certified on the Pilatus PC-12 powered by a Pratt & Whitney PT6A-67B or PT6A-67P propeller turbine. (PT6A-67P Engine Installation according to EASA STC 10065179 only applicable in EASA region).

When starting developing the world's first 7-bladed propeller for general aviation in 2016, MT-Propeller had the same vision like in year 1999 when we came up with the first 5-bladed prop for turbo props. The 5-bladed prop became an industrial standard with more than 2500 propeller sold for various

kinds of turbo props and it is still an ongoing success story. The 7-bladed propeller is pushing the new limits for certain applications to go beyond the achievement of the 5-bladed propellers.

FAA STC SA02266LA — FAA STC approved March 2021!

MT-Propeller Vice President Martin Albrecht says that the installation of the brand new 7-bladed MT-Propeller on the propeller turbine driven aircraft PC-12 features the following advantages over a four-bladed propeller:

- Best vibration damping characteristics for almost vibration free propeller operations
- Bonded on nickel alloy for best erosion protection of the blades
- No engine modifications necessary
- Certified Ground roll distance reduced by approx. 10%; AFMS amended
- Certified Take-off distance over 50 ft obstacle reduced by approx. 15%; AFMS amended
- Climb performance improved
- Unlimited blade life
- More ground clearance for less FODs
- FOD repairable blades
- Significant inside and outside noise reductions
- Aircraft noise level is about 4 dB(A) less than with the original metal propeller
- Cabin noise is reduced by 6 to 7 dB(A) depending on location
- Comply with the strict German noise regulations 2010 — "Landeplatz Lärmschutz Verordnung" for unrestricted airport operations in Germany and other European Countries!

Due to the smaller diameter the 7-bladed MT-Propeller for the Pilatus PC-12 has more ground clearance for less blade tip erosion and FODs.



Easy Field Installation

Simply bolt it on, and use your existing prop speed governor.

Blades can be replaced while prop is on the aircraft.

MT has 60 Factory Authorized Service Centers located around the globe.



STC Kit Contents

| | |
|--|--------------------------------|
| One 7-Blade Reversing and Full Feathering Constant Speed Propeller | MTV-47-1-N-C-F-R(P)/CFR260-361 |
| One Full Composite Spinner or Polished Aluminum Spinner | P-1610 |
| One Master Operation Manual List | Doc. No. E-3558 |
| One Airplane Flight Manual Supplement | Doc. No. E-3559 |
| One Installation Instruction | Doc. No. E-3560 |
| One Instruction for Continued Airworthiness | Doc. No. E-3561 |
| One Operation and Installation Manual | ATA 61-00-83 (E-1083) |

Propeller Specifications

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|--------------------------------------|---|
| Full Propeller Designation | MTV-47-1-N-C-F-R(P)/CFR260-361 |
| Propeller Hub | MTV-47-1-N-C-F-R(P) Milled single-piece aluminum hub |
| Blade | CFR260-361 |
| Blade Design | Scimitar, light-weight natural composite |
| Installed Propeller & Spinner Weight | 100,6 kg (221.8 lbs) |
| Maximum Diameter | 260 cm (102.36 in) |
| Minimum Diameter | |
| TBO | According to SB 1 () latest issue |

Replaces: The existing Hartzell propeller and spinner



For more information, contact

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