

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.

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## 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

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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