

I. General

1. Type/Variants

MTV-11 / MTV-11-C, MTV-11-D, MTV-11-F

2. Type Certificate Holder

MT-Propeller Entwicklung GmbH
Flugplatzstraße 1
94348 Atting
Germany

3. Manufacturer

MT-Propeller Entwicklung GmbH

4. Date of Application

MTV-11-C	MTV-11-F	MTV-11-D		
09 February 1990	09 February 1990	04 July 2003		

5. Reference Date for determination of the applicable requirements

09 February 1990

6. Certification Date

MTV-11-C	MTV-11-F	MTV-11-D		
30 March 1990	30 March 1990	19 July 2005		

II. Certification Basis

1. Airworthiness Standards

FAR 35 Amdt. 35-7 effective December 28, 1995

Note: Initial certification was based on airworthiness standard FAR 35 Amdt 35-5 effective September 11, 1980.

Update of certification to airworthiness standard FAR 35 Amdt. 35-7 was made based on application of MT-Propeller, dated July 4, 2003.

III. Technical Characteristics

1. Type Design Definition

The MTV-11 propeller model is defined by a main assembly drawing and an appropriate Parts list. The propeller variant is defined by the hub version installed, and which fits on a certain engine propeller flange.

Drawing No. P-184-() dated January 12, 1987 **(*1)**
Parts List No. S-020-() dated January 12, 1987 **(*1)**

Note: **(*1):** or a later approved revision
At a revision, the Drawing No. or the Parts List No. will be completed with the current revision letter, e.g. from P-184 in P-184-A

2. Description

2-blade variable pitch propeller with a hydraulically operated blade pitch change mechanism providing the operation mode "Constant Speed".
The hub is milled out of aluminum alloy, and the blade material is a laminated wood composite structure coated in fiberglass reinforced epoxy. The leading edge of the blades are equipped with an erosion protection device.
Optionally the propeller may have installed a spinner and ice protection equipment.

3. Equipment

Spinner: according to MT-Propeller Service Bulletin No. 13
Governor: according to MT-Propeller Service Bulletin No. 14
Ice Protection: according to MT-Propeller Service Bulletin No. 15

4. Dimensions

Propeller-Diameter: 152 cm to 190 cm

Note: The propeller type certification is valid for any MTV-11 propeller model with a Diameter covered by the declared diameter range. Individual propeller Diameter is determined particularly by the demands of the aircraft on which the propeller will be installed.

5. Weights

approx. 16 kg

6. Hub/Blade-Combinations

Hub	Blade-Type
MTV-11-()	-17, -24, -30, -32, -36, -39, -40, -53, -56, -57, -59, -100, -101, -105, -113, -114, -115, -117, -118, -119, -301

7. Control System

Hydraulically operating governors corresponding to the data of MT-Propeller Service Bulletin No. 14.

8. Adaptation to Engine

Hub flanges corresponding to the particular letter in the propeller designation (see chapter VI. 3.)

9. Sense of Rotation

Sense of rotation (viewed in flight direction) corresponding to the particular letter in the propeller designation (see chapter VI. 3.)

IV. Operational Limits

1. Propeller Speed

max. 2700 min⁻¹

2. Driving Power

max. 120 kW for a propeller-diameter/-speed of max.190 cm / 2700 min⁻¹

3. Propeller Pitch Angle

from +5° up to +50°

V. Operating and Service Instructions

Operation and Installation Manual for hydraulically controlled variable pitch propeller	No. E-124, Issue July 1, 1987 (*)
Overhaul Manual and Parts List for hydraulically controlled variable pitch propeller	No. E-128, Issue July 22, 1987
since June 1, 1998 replaced by Overhaul Manual and Parts List for hydraulically controlled variable pitch propeller	No. E-220, Issue June 1, 1989 (*)
Service Bulletins	as noted in the current List of Service Bulletins

- 4 No. of blade type (contains design configuration and aerodynamic data) according to the certified hub/blade-combinations
 - 5 code letter for design changes
 - small letter for changes which do not affect interchangeability of blade set
 - capital letter for changes which restrict or exclude interchangeability of blade set
4. Before issue of EASA-TC/TCDS the Type Certification of MTV-11 propeller series was covered by German Type Certificate No. 32.130/73