TYPE-CERTIFICATE DATA SHEET

No. P.044

for Propeller
MTV-36

Type Certificate Holder
MT-Propeller Entwicklung GmbH

Flugplatzstraße 1
94348 Atting
Germany

For Models:
MTV-36-1

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I. General

1. Type / Models

MTV-36 / MTV-36-1

2. Type Certificate Holder

MT-Propeller Entwicklung GmbH
Flugplatzstraße 1
94348 Atting
Germany

Design Organisation Approval No.: EASA.21J.020

3. Manufacturer

MT-Propeller Entwicklung GmbH

4. Date of Application

MTV-36-1: 18 February 2014

5. EASA Type Certification Date

MTV-36-1: 15 January 2015

II. Certification Basis

1. Reference Date for determining the applicable airworthiness requirements

18 February 2014

2. EASA Certification Basis

2.1. Airworthiness Standards

MTV-36-1	Wooden Blades: -200, -201, -202, -203, -204, -205	CS-22 amendment 2 Subpart J, dated 5 March 2009, except CS 22.1939 “Endurance test” CS-P 390(b) and CS-P 390(c) “Endurance Test”, amendment 1 dated 16 November 2006

See note VI. 3.

2.2. Special Conditions (SC)

None

2.3. Equivalent Safety Findings (ESF)

None

2.4. Deviations
None

III. Technical Characteristics

1. Type Design Definition

The MTV-36 series propeller models are defined by a main assembly drawing and an associated parts list:

Design Configuration	Assembly Drawing	Parts List
MTV-36-1-(*) Ground Adjustable or Constant Speed	P-1332-(x)	S-199-(x)
Note: 1. Two versions of hub flanges are available: *: -A = 6 x 7/16” - 20 UNF studs on a 80 mm circle diameter -R = 6 x 1/2” - 20 UNF studs on a 80 mm circle diameter 2. In the assembly drawing number and the part list number, the suffix (x) indicates the revision status.		

2. Description

4-blade ground-adjustable or variable pitch propeller with a hydraulically operated blade pitch change mechanism providing the operation mode “Constant Speed”. The hub is milled out of aluminium alloy. The blades have a laminated wood structure with a composite fibre cover. The leading edge of the blade is protected by a stainless steel erosion protection sheath. Optional equipment includes the spinner.

3. Equipment

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

4. Dimensions

Propeller diameter: 150 cm to 185 cm

5. Weight

Maximum: approx. 11.8 kg

6. Hub / Blade Combinations

For all design configurations listed under III.1 the following wooden blades are applicable:
-200, -201, -202, -203, -204, -205

7. Control System

Propeller governors as listed in MT-Propeller Service Bulletin No. 14.

8. Adaptation to Engine

Hub flanges as identified by a letter-code in the propeller designation (see note VI. 4.)

9. Direction of Rotation

Direction of rotation (viewed in flight direction) as identified by a letter-code in the propeller designation (see note VI.4.)

IV. Operating Limitations

1. Approved Installations

This propeller is certified for installation on Powered Sailplanes, Very Light Aeroplanes and aircraft which can accept a propeller certified according to CS-22 Subpart J (see also note VI.3.).

2. Maximum Take Off Power and Speed

Diameter (cm)	Maximum Take Off Power (kW)	Maximum Take Off Speed (rpm)
150 to 180	86	2560
150 to 185	117	2279

3. Maximum Continuous Power and Speed

Diameter (cm)	Maximum Continuous Power (kW)	Maximum Continuous Speed (rpm)
150 to 180	86	2560
150 to 185	117	2279

4. Propeller Pitch Angle

From +3° up to +55° measured at 75% radius station

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V. Operating and Service Instructions

Operation, Installation and Maintenance Manual for Ground Adjustable and Hydraulically Controlled Variable Pitch Propeller (Constant Speed Propeller) MTV-33-( ) MTV-34-( ) MTV-36-( )	No. E-2285
Overhaul Manual and Parts List for Ground Adjustable and Hydraulically Controlled Variable Pitch Propeller (Constant Speed Propeller) MTV-33-( ) MTV-34-( ) MTV-36-( )	No. E-2286
Composite Blade Overhaul Manual (also applicable to wooden blades)	No. E-1290
Standard Practice Manual	No. E-808
Service Bulletins, Service Letters, Service Instructions	as published by MT-propeller

VI. Notes

1. The EASA approved Airworthiness Limitations Section (ALS) of the Instructions for Continued Airworthiness is published in the applicable "Operation, Installation and Maintenance Manual" document, chapter 10.0 "Airworthiness Limitations Section". This ALS section is empty because no life limit is necessary for these models.

2. The overhaul intervals recommended by the manufacturer are published in MT-Propeller Service Bulletin No. 1.

3. This propeller is certified for installation on Powered Sailplanes, Very Light Aeroplanes and aircraft which can accept a propeller certified according to CS-22 Subpart J. The suitability of a propeller for a given aircraft/engine combination must be demonstrated within the scope of the type certification of the aircraft.

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4. Propeller designation system:

	Hub				/	Blade			
MT	V	- 36	- 1	- ( )	/	( ) 175	- 200	( )	
1	2	3	4	5	/	1	2	3	4

Hub

1 MT-Propeller Entwicklung GmbH

2 Variable pitch propeller

3 Identification of propeller type

4 Identification of propeller model

5 Letter code for flange type:
- A = 6 x 7/16” – 20 UNF studs on a 80 mm circle diameter
- R = 6 x 1/2” – 20 UNF studs on a 80 mm circle diameter

Blade

1 Letter code for direction of rotation and installation:
- blank = right-hand tractor
- RD = right-hand pusher
- L = left-hand tractor
- LD = left-hand pusher

2 Diameter in cm

3 Identification of blade design

4 Letter code for blade design changes:
- small letter for changes which do not affect interchangeability of blade set
- capital letter for changes which affect interchangeability of blade set

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SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

n/a

II. Type Certificate Holder Record

n/a

III. Change Record

Issue	Date	Changes	TC issue
Issue 01	15 January 2015	Initial Issue	Initial Issue, 15 January 2015
Issue 02	6 April 2020	- Amend TCDS with new approved power rating per EASA Approval No 10072956 - Editorial changes	06 April 2020
Issue 03	28 August 2024	a) Approval of power rating 117 kW / 2279 rpm / 150 to 185 cm b) Addition of flange type -R (EASA Major Change Approval No 10085187)	

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