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
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:

Model MTV-36-1-(*1) “Ground Adjustable or Constant Speed”
Drawing No. P-1332 dated 30 July 2013 (*2)
Parts List No. S-199 dated 25 February 2014 (*2)

Note:

(*1) One version of hub flange is available:
   - A = 6x 7/16”-20UNF on a 80mm bolt circle diameter

(*2) Or later approved revision. Following a revision, the Drawing No. or the Parts List No. includes the corresponding revision letter, e.g. from P-1332 in P-1332-A.

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 180 cm

5. Weight

Maximum: approx. 11.5 kg
6. Hub / Blade Combinations

<table>
<thead>
<tr>
<th>Hub</th>
<th>Blades</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTV-36-1</td>
<td>-200, -201, -202, -203, -204, -205</td>
</tr>
</tbody>
</table>

7. Control System


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. Acceptable propeller/engine/aircraft combinations and the corresponding limitations are listed in MT-Propeller Service Bulletin No. 16. (see also note VI.3.)

2. Maximum Take Off Power and Speed

<table>
<thead>
<tr>
<th>Power (kW)</th>
<th>Speed (propeller rpm)</th>
<th>Diameter (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTV-36-1</td>
<td>86</td>
<td>2560</td>
</tr>
<tr>
<td>MT-36-1</td>
<td>104</td>
<td>2279</td>
</tr>
</tbody>
</table>

3. Maximum Continuous Power and Speed

<table>
<thead>
<tr>
<th>Power (kW)</th>
<th>Speed (propeller rpm)</th>
<th>Diameter (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTV-36-1</td>
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<td>2560</td>
</tr>
<tr>
<td>MT-36-1</td>
<td>104</td>
<td>2279</td>
</tr>
</tbody>
</table>

4. Propeller Pitch Angle

From +3° up to +55° measured at 75% radius station
V. Operating and Service Instructions

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

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.
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 = 6x 7/16”-20UNF on a 80mm bolt 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
SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations
n/a

II. Type Certificate Holder Record
n/a

III. Change Record

<table>
<thead>
<tr>
<th>Issue</th>
<th>Date</th>
<th>Changes</th>
<th>TC issue</th>
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<tbody>
<tr>
<td>Issue 01</td>
<td>15 January 2015</td>
<td>Initial Issue</td>
<td>Initial Issue, 15 January 2015</td>
</tr>
<tr>
<td>Issue 02</td>
<td>06 April 2020</td>
<td>-Amend TCDS with new approved power rating per EASA Major Change Approval 10072956</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>-Editorial changes</td>
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