TYPE-CERTIFICATE
DATA SHEET

No. P.025

for
V 500 series propellers

Type Certificate Holder
Avia Propeller Ltd.
Beranových 65/666
199 00 Praha 9 - Letňany
Czech Republic

For Models:
V 500
V 500A
# TABLE OF CONTENTS

## I. General

1. Type / Model .................................................................................................................. 4
2. Manufacturer ................................................................................................................ 4
3. Date of Application ...................................................................................................... 4
4. EASA Type Certification Date .................................................................................... 4

## II. Certification Basis

1. State of Design Authority Certification Basis ............................................................ 4
2. Reference Date for determining the applicable airworthiness requirements ............. 4
3. EASA Certification Basis ............................................................................................ 4
   3.1. Airworthiness Standards ....................................................................................... 4
   3.2. Special Conditions ............................................................................................... 5
   3.3. Equivalent Safety Findings .................................................................................. 5
   3.4. Deviations ........................................................................................................... 5

## III. Technical Characteristics

1. Type Design Definition ............................................................................................... 5
2. Description .................................................................................................................. 5
3. Equipment .................................................................................................................. 5
4. Dimensions ............................................................................................................... 5
5. Weight ...................................................................................................................... 5
6. Hub / Blade-Combinations ....................................................................................... 5
7. Control System ......................................................................................................... 6
8. Adaptation to Engine ............................................................................................... 6
9. Direction of Rotation ............................................................................................... 6

## IV. Operating Limitations

1. Maximum Take Off Power and Speed ....................................................................... 6
2. Maximum Continuous Power and Speed ................................................................... 6
3. Propeller Pitch Angle ............................................................................................... 6

## V. Operating and Service Instructions


## VI. Notes


## SECTION: ADMINISTRATIVE

1. Acronyms and Abbreviations .................................................................................... 7
2. Type Certificate Holder Record ................................................................................... 7
3. Change Record .......................................................................................................... 7
I. General

1. Type / Model
V 500 / V 500A

2. Manufacturer
Avia Propeller Ltd.
Beranových 65/666
199 00 Praha 9 - Letňany
Czech Republic

3. Date of Application

<table>
<thead>
<tr>
<th></th>
<th>V 500</th>
<th>V 500A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>15.01.1964</td>
<td>30.03.1973</td>
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</tbody>
</table>

4. EASA Type Certification Date

<table>
<thead>
<tr>
<th></th>
<th>V 500</th>
<th>V 500A</th>
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</thead>
<tbody>
<tr>
<td>Date</td>
<td>20.03.1964</td>
<td>30.04.1973</td>
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Type certification of the V 500 series propeller model has been covered previously by Czech Republic Type certificate No.64 001, and partly by No.73-03.

II. Certification Basis

1. State of Design Authority Certification Basis
Czech Republic

2. Reference Date for determining the applicable airworthiness requirements
15 January 1964 (for later updated amendments 30 March 1973 was used)

3. EASA Certification Basis

3.1. Airworthiness Standards
British Civil Airworthiness Requirements (BCAR), Section C, Issue 5, dated 1st July, 1962

Later compliance with FAR Part 35-2 dated March 04, 1967 had been shown.

Note:
Application was made to CAA - Czech Republic (former Czechoslovakia) before EASA was established. The applicable airworthiness standards were established in accordance with the rule in Czech Republic (former Czechoslovakia) at the time of application.
3.2. Special Conditions
None

3.3. Equivalent Safety Findings
None

3.4. Deviations
None

III. Technical Characteristics

1. Type Design Definition
The V 500 propeller model covers the following design configuration. Design configuration is defined by a main assembly drawing and an appropriate parts list.

V 500 and V500A
Design Configuration “Constant Speed”
Drawing No. 060-0000 dated June 9, 2009 (*1)
Parts List No. R-060-0000 dated June 8, 2009 (*1)

(*1) effective is the declared issue or a later approved revision.

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 steel and blades are milled out of aluminum alloy.
Optionally the propeller may have installed a spinner.

3. Equipment
Spinner: according to Avia Propeller Service Bulletin No. 2
Governor: according to Avia Propeller Service Bulletin No. 3

4. Dimensions
Propeller diameter: max. 200 cm

5. Weight
Propeller-Design Configuration
“Constant Speed”: approx. 26 kg

6. Hub / Blade-Combinations

<table>
<thead>
<tr>
<th>Hub</th>
<th>Blade-Type</th>
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<tr>
<td>V 500( )</td>
<td>-1690, -1905, -2000</td>
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</table>
7. Control System
Propeller governor as listed in Avia Propeller Service Bulletin No. 3.

8. Adaptation to Engine
Flange, bolt spacing diameter 120 mm.

9. Direction of Rotation
Left-hand tractor (viewed in flight direction).

IV. Operating Limitations

1. Maximum Take Off Power and Speed
184 kW at 2750 min\(^{-1}\) - for propeller V500
162 kW at 2750 min\(^{-1}\) - for propeller V500A

2. Maximum Continuous Power and Speed
184 kW at 2750 min\(^{-1}\) - for propeller V500
162 kW at 2750 min\(^{-1}\) - for propeller V500A

3. Propeller Pitch Angle
From +13\(^\circ\) to +35\(^\circ\) measured at reference station

V. Operating and Service Instructions

<table>
<thead>
<tr>
<th>Service Manual Type</th>
<th>P/N</th>
<th>Date of Latest Issue/Revision</th>
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<tbody>
<tr>
<td>Operation and Installation Manual</td>
<td>P/N E-1648</td>
<td>Date of Latest Issue/Revision</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Issue 1, June 18, 2009 (*)</td>
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<tr>
<td>Overhaul Manual</td>
<td>P/N E-1649</td>
<td>Date of Latest Issue/Revision</td>
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<td>Overhaul Manual for Metal Blades</td>
<td>P/N EN-1370</td>
<td>Date of Latest Issue/Revision</td>
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<td>Issue 2, March 17, 2009 (*)</td>
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<tr>
<td>Service Bulletins</td>
<td>as noted in the current List of Service Bulletins</td>
<td></td>
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(*) effective is the declared issue or a later approved revision
VI. Notes

1. The suitability of the propeller for a given aircraft/engine-combination must be demonstrated within the scope of the type certification of the aircraft.

2. The overhaul intervals recommended by the manufacturer are listed in Avia Propeller Service Bulletin No. 1. The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable “Propeller Operation and Installation Manual” document, chapter “Airworthiness Limitations”.

3. EASA Type Certificate and Type Certificate Data Sheet No.P.025 replace CAA - Czech Republic Type Certificate and Type Certificate Data Sheet No.64 001 and No.73-03.

SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

n/a

II. Type Certificate Holder Record

n/a

III. Change Record

<table>
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<tr>
<th>TCDS Issue</th>
<th>Date</th>
<th>Changes</th>
<th>TC issue</th>
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<tbody>
<tr>
<td>Issue 01</td>
<td>30 June 2009</td>
<td>Initial Issue</td>
<td>Initial Issue, 30 June 2009</td>
</tr>
<tr>
<td>Issue 02</td>
<td>15 December 2022</td>
<td>Addition of a sentence to Note 2 in Chapter VI. Notes: The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable „Propeller Operation and Installation Manual“ document, chapter Airworthiness Limitations. (Major Change approval 10080692)</td>
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