TYPE-CERTIFICATE
DATA SHEET

No. P.030

for
V 520 series propellers

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

For Models:
V 520
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I. General

1. Type / Model
V 520

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

3. Date of Application

| V 520 | 13.10.1965 |

4. EASA Type Certification Date

| V 520 | 21.3.1966 |

Type certification of the V 520 series propeller model has been covered previously by Czech Republic Type certificate No.66-01.

II. Certification Basis

1. State of Design Authority Certification Basis
Czech Republic

2. Reference Date for determining the applicable airworthiness requirements
13 October 1965

3. EASA Certification Basis

3.1. Airworthiness Standards
British Civil Airworthiness Requirements (BCAR), dated 1.7.1962, Issue 5

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 520 propeller model covers the following design configuration. Design configuration is defined by a main assembly drawing and an appropriate parts list.

V 520
Design Configuration “Constant Speed”
Drawing No. VS20-0000 dated May 21, 2009 (*1)
Parts List No. R-V520-0000 dated May 21, 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.

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

4. Dimensions
Propeller diameter: max. 270 cm

5. Weight
Propeller-Design Configuration
“Constant Speed”: approx. 49 kg

6. Hub / Blade-Combinations

<table>
<thead>
<tr>
<th>Hub</th>
<th>Blade-Type</th>
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<tr>
<td>V 520-2101</td>
<td>V520-1</td>
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7. Control System
Propeller governor as listed in Avia Propeller Service Bulletin No. 3.

8. Adaptation to Engine
Special splined shaft.
9. Direction of Rotation
Left-hand tractor (viewed in flight direction).

IV. Operating Limitations

1. Maximum Take Off Power and Speed
258 kW at 1930 min⁻¹

2. Maximum Continuous Power and Speed
258 kW at 1930 min⁻¹

3. Propeller Pitch Angle
From +11° to +25° with mechanical pitch stop measured at reference station
From +11° to +41° without mechanical pitch stop measured at reference station

V. Operating and Service Instructions

<table>
<thead>
<tr>
<th>Operation and Installation Manual</th>
<th>P/N E-1638</th>
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| Service Bulletins                | as noted in the current List of Service Bulletins |

(*) 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 0. “Airworthiness Limitations”.

3. EASA Type Certificate and Type Certificate Data Sheet No.P.030 replace CAA - Czech Republic Type Certificate and Type Certificate Data Sheet No.66-01.
SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations
n/a

II. Type Certificate Holder Record
n/a

III. Change Record

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<th>TCDS Issue</th>
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<th>Changes</th>
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<tr>
<td>Issue 01</td>
<td>02 June 2009</td>
<td>Initial Issue</td>
<td>Initial Issue, 02 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 0. Airworthiness Limitations. (Major Change Approval 10080701)</td>
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