# European Aviation Safety Agency

## EASA

## TYPE-CERTIFICATE
## DATA SHEET

Number : P.030
Issue : 01
Date : 02 June 2009
Type : Avia Propeller Ltd.
V 520 series propellers

Variants
V 520

List of effective Pages:

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# I. General

## 1. Type/Variants

V 520

## 2. Type Certificate Holder

Avia Propeller Ltd.
Beranových 65/666
199 00 Praha 9 – Letňany
Czech Republic

Design Organisation Approval No.: EASA.21J.072

## 3. Manufacturer

Avia Propeller Ltd.
Beranových 65/666
199 00 Praha 9 – Letňany
Czech Republic

## 4. Date of Application

| V 520 |
|---|
| 13.10.1965 |

## 5. Reference Date for determination of the applicable requirements

13 October 1965

## 6. 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. 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.

## 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. V520-0000 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

| Hub | Blade-Type |
|---|---|
| V 520-2101 | V520-1 |

### 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. Operational Limits

### 1. Propeller Speed:

max. 1930 $min^{-1}$

### 2. Max.Take-Off Power:

258 kW

### 3. Max.Continous Power:

258 kW

### 4. 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

| | |
|---|---|
| Operation and Installation Manual | P/N E-1638<br>Date of Latest Issue/Revision<br>Issue 1, May 22, 2009 (*) |
| Overhaul Manual<br><br><br>Overhaul Manual for Metal Blades | P/N E-1639<br>Date of Latest Issue/Revision<br>Issue 1, May 22, 2009 (*)<br><br>P/N EN-1370<br>Date of Latest Issue/Revision<br>Issue 2, March 17, 2009 (*) |
| 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.

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.

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