



*European Aviation Safety Agency*

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**EASA**

**TYPE-CERTIFICATE  
DATA SHEET**

**EASA.A.006**

**P2002**

**Type Certificate Holder:  
Costruzioni Aeronautiche TECNAM S.r.l.**

Via Tasso, 478  
80127 Napoli  
ITALIA

For models: P2002-JF  
P2002-JR

Issue 8: 7 June 2013

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## **SECTION A: P2002-JF**

### **A.I. General**

Data Sheet No.: EASA A.006	Issue: 08	Date: 7 June 2013
1. a) Type:	P2002	
b) Model:	P2002-JF	
2. Airworthiness Category:	CS-VLA Normal Category	
3. Manufacturer:	Costruzioni Aeronautiche TECNAM S.r.l. Via Tasso, 478 80127 Napoli ITALIA	
4. JAA Certification Application Date:	29 May 2002	
5. JAA validation Date (JAA recommendation):	27 May 2004	
6. EASA Type Certification Date:	27 May 2004	

### **A.II. Certification Basis**

1. Reference Date for determining the applicable requirements:	29 May 2002
2. (Reserved)	
3. (Reserved)	
4. Certification Basis:	As defined in CRI A-01, latest Issue
5. Airworthiness Requirements:	EASA CS-VLA dated 14/11/2003 (Equivalent to JAR-VLA ed. 26/04/1990 including amendments VLA/91/1 dated October 22 <sup>nd</sup> , 1991 and VLA/92/1 dated January 1, 1992)
6. Requirements elected to comply:	None
7. EASA Special Conditions:	CRI A-03 (SC VLAVFR Night)
8. EASA Exemptions:	None
9. EASA Equivalent Safety Findings:	None

10. EASA Environmental Standards: Noise: JAR-36, 1<sup>st</sup> edition dated 23<sup>rd</sup> May 1996 subpart C with reference to ICAO Annex 16, 3<sup>rd</sup> Edition 1993, Volume 1, Chapter 10.

Emission: N/A

### **A.III. Technical Characteristics and Operational Limitations**

1. Type Design Definition: Doc. 2002/04 ed.1 rev.0 "Type design definition"
2. Description: Single engine, two-seat cantilever low wing airplane, aluminium and steel construction, fixed tricycle landing gear.
3. Equipment: Equipment list, AFM, Doc. 2002/28, Section 6
4. Dimensions:
- |           |                     |                          |
|-----------|---------------------|--------------------------|
| Span      | 8.6 m               | (28.2 ft)                |
| Length    | 6.6 m               | (21.7 ft)                |
| Height    | 2.4 m               | (7.9 ft)                 |
| Wing Area | 11.5 m <sup>2</sup> | (123.8 ft <sup>2</sup> ) |
5. Engine/s: Rotax 912 S2  
TCDS EASA.E.121
- Aeroplanes with modification n. MOD2002/127 applied:  
Rotax 912 S3  
TCDS EASA.E.121
- 5.1 Engine Limits: Max rotational speed (5 min) 5800 r.p.m.  
Max continuous rotational speed 5500 r.p.m (Engine shaft r.p.m)  
Other engine's limitations are listed in Doc. 2002/28 "Aircraft Flight Manual"
6. (Reserved)
7. Propeller/s: Hoffmann Propeller HO17GHM A 174 177C  
Two blades, fixed pitch, made of wood.  
LBA TCDS 32.110/1.  
Type Certificate No. SO/E 30 dated 10/12/1999  
Diameter : 1740 mm

Aeroplanes with modification n. MOD2002/127 applied:  
Hoffmann Propeller HOV352F1/C170FQ+8  
Two blades, variable pitch, made of wood.  
LBA TCDS 32.130/88 dated 20/08/2003  
Diameter : 1780 mm

8. Fluids:

8.1 Fuel:

Min. RON 95  
EN 228 Premium  
EN228 Premium plus  
AVGAS 100LL (see Rotax Operators Manual)

8.2 Oil:

Lubricant specifications and grade are detailed in the "Rotax Operators Manual" and in its related documents

8.3 Coolant:

Coolant specifications and detailed are detailed in the "Rotax Operators Manual" and in its related documents Section 2

9. Fluid capacities:

9.1 Fuel:

Total: 100 liters  
Usable: 99 liters

9.2 Oil:

Total: 3.0 liters  
Minimum: 2.0 liters

10. Air Speeds:

Design Manoeuvring Speed  $V_A$ : 96 KIAS  
Aeroplanes with modification n. MOD2002/29,  
or equivalent Service Bulletin n. SB010-CS, installed: 98 KIAS  
Aeroplanes with modification n. MOD2002/87,  
or equivalent Service Bulletin n. SB0105-CS, installed: 100 KIAS

Flap Extended Speed  $V_{FE}$ : 67 KIAS Full Flap  
97 KIAS Take Off

Aeroplanes with modification n. MOD2002/29,  
or equivalent Service Bulletin n. SB010-CS, installed: 68 KIAS Full Flap  
99 KIAS Take Off

Aeroplanes with modification n. MOD2002/87,  
or equivalent Service Bulletin n. SB0105-CS, installed: 69 KIAS Full Flap  
101 KIAS Take Off

Maximum structural cruising speed  $V_{NO}$  110 KIAS  
Aeroplanes with modification n. MOD2002/29,  
or equivalent Service Bulletin n. SB010-CS, installed: 112 KIAS  
Aeroplanes with modification n. MOD2002/87,  
or equivalent Service Bulletin n. SB0105-CS, installed: 114 KIAS

- |  |          |
|--|----------|
| Never exceed speed $V_{NE}$ :  | 138 KIAS |
| Aeroplanes with modification n. MOD2002/29,<br>or equivalent Service Bulletin n. SB010-CS, installed:  | 141 KIAS |
| Aeroplanes with modification n. MOD2002/87,<br>or equivalent Service Bulletin n. SB0105-CS, installed: | 142 KIAS |
11. (Reserved)
12. All weather Capability: Day-VFR only  
Flight into expected or actual icing conditions is prohibited  
Night VFR is allowed if the SB 044-CS is applied.
13. Maximum Masses:
- |           |        |
|-----------|--------|
| Take-off  | 580 kg |
| Zero Fuel | 580 kg |
| Landing   | 580 kg |
- Aeroplanes with modification n. MOD2002/29,  
or equivalent Service Bulletin n. SB010-CS, installed:
- |           |        |
|-----------|--------|
| Take-off  | 600 kg |
| Zero Fuel | 600 kg |
| Landing   | 600 kg |
- Aeroplanes with modification n. MOD2002/87,  
or equivalent Service Bulletin n. SB0105-CS, installed:
- |           |        |
|-----------|--------|
| Take-off  | 620 kg |
| Zero Fuel | 620 kg |
| Landing   | 620 kg |
14. Centre of Gravity Range:
- |               |                      |
|---------------|----------------------|
| Forward limit | 1.693 m behind Datum |
| Rear limit:   | 1.728 m behind Datum |
15. Datum: Propeller support flange without spacer
16. (Reserved)
17. Levelling Means: Seat support trusses  
(see "P2002-JF Flight Manual" Sect.6  
for the procedure)
18. Minimum Flight Crew: 1 (Pilot)
19. Maximum Passenger Seating Capacity: 1
20. (Reserved)
21. Baggage / Cargo Compartments

Max. allowable Load	20 kg
Location	2.26 m aft the datum
22. Wheels and Tyres	
Nose Wheel Tyre Size	4.00-6
Main Wheel Tyre Size	5.00-5

**A.IV. Operating and Service Instructions**

Airplane Flight Manual (AFM)	Document No. 2002/28 Last edition
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Document No. 2002/30 Last edition
Service Information and Service Bulletins	None

**A.V. Notes**

None

## **SECTION B: P2002-JR**

### **B.I. General**

Data Sheet No.: EASA A.006	Issue: 08	Date: 7 June 2013
1. a) Type:	P2002	
b) Model:	P2002-JR	
2. Airworthiness Category:	CS-VLA Normal Category	
3. Manufacturer:	Costruzioni Aeronautiche TECNAM S.r.l. Via Tasso, 478 80127 Napoli ITALIA	
4. JAA Certification Application Date:	29 May 2002	
5. JAA validation Date (JAA recommendation):	27 May 2004	
6. EASA Type Certification Date:	2 February 2007	

### **B.II. Certification Basis**

1. Reference Date for determining the applicable requirements:	16 December 2004
2. (Reserved)	
3. (Reserved)	
4. Certification Basis:	As defined in CRI A-01, latest Issue
5. Airworthiness Requirements:	EASA CS-VLA dated 14/11/2003
6. Requirements elected to comply:	None
7. EASA Special Conditions:	CRI A-03 (SC VLA VFR Night)
8. EASA Exemptions:	None
9. EASA Equivalent Safety Findings:	None
10. EASA Environmental Standards:	Noise: CS-36 with reference to ICAO/Annex 16 Ed. 3 dated 1993, Volume I, Chapter 10 Emission: N/A



### **B.III. Technical Characteristics and Operational Limitations**

1. Type Design Definition: Doc. 2002/82 ed.1 rev.0 “JR Type design definition”
2. Description: Single engine, two-seat cantilever low wing airplane, aluminium and steel construction, retractable tricycle landing gear.
3. Equipment: Equipment list, AFM, Doc. 2002/91, Section 6,
4. Dimensions:

Span	8.6 m	(28.2 ft)
Length	6.6 m	(21.7 ft)
Height	2.4 m	(7.9 ft)
Wing Area	11.5 m <sup>2</sup>	(123.8 ft <sup>2</sup> )
5. Engine/s: Rotax 912 S3  
TCDS EASA.E.121
  - 5.1 Engine Limits: Max rotational speed (5 min)5800 r.p.m.  
Max continuous rotational speed 5500 r.p.m (Engine shaft r.p.m)  
Other engine’s limitations are listed in Doc. 2002/91 “Aircraft Flight Manual”
6. (Reserved)
7. Propeller/s: Hoffmann Propeller HOV352F1/C170FQ+8  
Two blades, variable pitch, made of wood.  
LBA TCDS 32.130/88 dated 20/08/2003  
Diameter : 1780 mm
  - 7.1 Settings  
Low pitch setting : 13°
8. Fluids:
  - 8.1 Fuel: Min. RON 95  
EN 228 Premium  
EN228 Premium plus  
AVGAS 100LL (see Rotax Operators Manual)
  - 8.2 Oil: Lubricant specifications and grade are detailed in the “Rotax Operators Manual” and in its related documents
  - 8.3 Coolant: Coolant specifications and detailed are detailed in the “Rotax Operators Manual” and in its related documents Section 2

- 9 Fluid capacities:
- 9.1 Fuel: Total: 100 liters  
Usable: 99 liters
- 9.2 Oil: Maximum: 3.0 liters  
Minimum: 2.0 liters
10. Air Speeds:
- Design Manoeuvring Speed  $V_A$ : 99 KIAS
- Flap Extended Speed  $V_{FE}$ : 68 KIAS
- Maximum landing gear operation speed  $V_{LO}$  68 KIAS
- Maximum structural cruising speed  $V_{NO}$  113 KIAS
- Never exceed speed  $V_{NE}$ : 144 KIAS
11. (Reserved)
12. All weather Capability: Day-VFR only  
Flight into expected or actual icing conditions is prohibited  
Night VFR is allowed if the SB 044-CS is applied.
13. Maximum Masses:
- Take-off 600 kg  
Zero Fuel 600 kg  
Landing 600 kg
14. Centre of Gravity Range:
- Forward limit 1.746 m behind Datum
- Rear limit: 1.801 m behind Datum
15. Datum: Propeller support flange without spacer
16. (Reserved)
17. Levelling Means: Seat support trusses  
(see "P2002-JR Flight Manual" Sect.6 for the procedure)
18. Minimum Flight Crew: 1 (Pilot)
19. Maximum Passenger Seating Capacity: 1

20. (Reserved)
21. Baggage / Cargo Compartments
- |                     |                      |
|---------------------|----------------------|
| Max. allowable Load | 20 kg                |
| Location            | 2.30 m aft the datum |
22. Wheels and Tyres
- |                      |        |
|----------------------|--------|
| Nose Wheel Tyre Size | 4.00-5 |
| Main Wheel Tyre Size | 5.00-5 |

**B.IV. Operating and Service Instructions**

Airplane Flight Manual (AFM)	Document No. 2002/91
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Document No. 2002/93
Service Information and Service Bulletins	None

**B.V. Notes**

None

## ADMINISTRATIVE SECTION

I Acronyms N/A

II Type Certificate Holder Record

### **Costruzioni Aeronautiche TECNAM S.r.l.**

Via Tasso, 478  
80127 Napoli  
ITALIA

III Change Record

Issue 1 Initial issue 27 May 2004

Issue 2 4 June 2004: Noise data added to A.V:  
Noise Data Level determined according to JAR 36 ICAO/Annex 16 Ch. 10  
is: 63.6 db

Issue 3 6 April 2006: Correction of rear limit of centre of gravity range from  
1728mm to 1782mm (A.III Page 6).

Minor layout/editorial changes

Issue 4 Approval of P2002-JR variant

New standard for fuel type

Maximum oil level

New indication for coolant

Issue 5 Increase of MTOW for P2002-JF from 580kg to 600kg.

Different  $V_{FE}$  for different flap configuration

Issue 6 VFR Night operations extension. SB 044-CS "P2002 VFR Night"  
prescribes the installations of the following modifications to allow night  
VFR operations:

- MOD2002/001 "Installazione Garmin GNS 430 e Audio Panel GMA 340" or equivalent MOD2002/027 " Installation GPS Garmin GNS 530 on P2002 series" or optionally MOD2002/027 "Installation of the Garmin SL30 VHF COMM/NAV" if the aircraft operates outside Italy

- MOD2002/039 "Installation Transponder Garmin GTX 328" or equivalent MOD2002/016 "Transponder Garmin GTX 330" or equivalent MOD2002/005 " Installazione Garmin GTX 327" or equivalent MOD2002/002 " Transponder Garmin GTX320 installation"

- MOD2002/041 "G500 Installation"

- MOD2002/080 "Installation of the Garmin SL40 VHF COMM"

- MOD2002/021 "ELT AK 450 installation"

Issue 7 29 November 2012

Increase of MTOW for P2002-JF from 580Kg to 620Kg.

Issue 8 7 June 2013: P2002JF Variable pitch propeller provision.