



EASA.A.006

Description:	A.006 Tecnam P2002
Language:	English
TCDS:	EASA.A.006
Product type:	Aircraft (CS-25, CS-22, CS-23, CS-VLA, CS-LSA)
Manufacturer/TC Holder:	TECNAM Costruzioni Aeronautiche



European Aviation Safety Agency

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 nd , 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, 1st edition dated 23rd May 1996 subpart C with reference to ICAO Annex 16, 3rd 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 | (123.8 ft ²) |
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,
or equivalent Service Bulletin n. SB010-CS, installed: | 141 KIAS |
| | Aeroplanes with modification n. MOD2002/87,
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
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Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Document No. 2002/30 Last edition
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Service Information and Service Bulletins	None
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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	(123.8 ft ²)
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.