European Aviation Safety Agency

TYPE-CERTIFICATE

EASA.A.006

This certificate, established in accordance with Regulations (EC) No 1592/2002 and (EC) No 1702/2003 and issued to

Costruzioni Aeronautiche TECNAM S.r.l.

Via Tasso, 478
80127 Napoli
Italia

certify that the aircraft type design listed below comply with the applicable Type Certification Basis and environmental protection requirements when operated within the conditions and limitations specified on the associated Type Certificate Data Sheet N°. A.006

Model	Date of issue
Tecnam P2002-JF	**27 May, 2004**
Tecnam P2002-JR	**02 February, 2007**

This certificate and its associated type-certificate data sheet, which is a part thereof, shall remain valid unless otherwise surrendered or revoked.

For the European Aviation Safety Agency,

Roger Hardy
Certification Manager
General Aviation

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

CONTENT

SECTION A: P2002-JF

A.I. General

Data Sheet No.: EASA A.006 Issue: 08 Date: 7 June 2013

1.	a) Type: b) Model:	P2002 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 22nd,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 m²	(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 speed5500 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: Lubrificant 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
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^2	(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: Lubrificant 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.