



European Aviation Safety Agency

EASA

**TYPE-CERTIFICATE
DATA SHEET
EASA.A.412**

TECNAM P92

Type Certificate Holder:
Costruzioni Aeronautiche TECNAM S.r.l.
Via Tasso, 478
80127 Napoli
ITALIA

For Models: P92-J
P92-JS

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SECTION A: P92-J

A.I. General

- | | | |
|---|--|-----------------------|
| Data Sheet No.: EASA A.412 | Issue: 02 | Date: 1 February 2011 |
| 1. a) Type: | P92-J | |
| 2. Airworthiness Category: | CS-VLA Normal Category | |
| 3. Type Certificate Holder: | Costruzioni Aeronautiche TECNAM S.r.l.
Via Tasso, 478
80127 Napoli
ITALIA | |
| 4. Manufacturer: | Costruzioni Aeronautiche TECNAM S.r.l.
Via Tasso, 478
80127 Napoli
ITALIA | |
| 5. Original ENAC Certification date: | 10 November 1995 | |
| 6. EASA Type Certification Date: | 11 June 2010 | |
| 7. This TCDS replaces ENAC/RAI TCDS No. A.340 | | |

A.II. Certification Basis

- | | |
|--|---|
| 1. Reference Date for determining the applicable requirements: | 14 th April 1994 |
| 2. (Reserved) | |
| 3. (Reserved) | |
| 4. Certification Basis: | As defined in CRI A-01, latest Issue |
| 5. Airworthiness Requirements: | JAR VLA April 26, 1990 for aircraft, Amdt 91/1 and 92/1
JAR 22 Subpart H, Change 1, for engine.
JAR 22 Subpart J, Change 4, for propeller
Request for Type Certificate: April 14, 1994 |
| 6. Requirements elected to comply: | None |
| 7. EASA Special Conditions: | None |

8. EASA Exemptions: None
9. EASA Equivalent Safety Findings: None
10. EASA Environmental Standards: Noise: ICAO /Annex 16, Vol. I. 3rd Ed. 1993, Chapter 10
Emission: N/A

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Doc. 92/27 ed.1 rev.0 "P92-J Type design definition"
2. Description: Single engine, two-seat, single strut braced high wing airplane, aluminium and steel construction, fixed tricycle landing gear.
3. Equipment: Equipment list, AFM, Doc. "92/20 Flight Manual", Section 6
4. Dimensions:
- | | | |
|-----------|---------------------|--------------------------|
| Span | 9.6 m | (31.5 ft) |
| Length | 6.3 m | (20.7 ft) |
| Height | 2.5 m | (8.2 ft) |
| Wing Area | 13.2 m ² | (142.1 ft ²) |
5. Engine/s: No.1 Bombardier-Rotax GmbH 912 A2
Certification Basis: JAR 22 Appendix H Amendment 1 of 18.05.81
Austrian Type Certificate No. TW 8/89 of 25.09.89
- 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. "92/20 Flight Manual"
6. (Reserved)
7. Propeller/s: No.1
GT-2/166/145-FW 100 SRTC or GT-2/166/145-FW 101 SRTC

Two blades, fixed pitch, made of wood.
Type Certificate EASA.P.108.
Diameter : 1660 mm

8. Fluids:

8.1 Fuel:

Min. RON 95
EN 228 Premium
EN 228 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: 70 liters
Usable: 67.4 liters

9.2 Oil:

Total: 3.5 liters
Minimum: 3.0 liters

10. Air Speeds:

Design Manoeuvring Speed V_A : 83 KIAS

Aeroplanes with Service Bulletin n. P92J-07
(MTOW=550kg), installed: 85 KIAS

Flap Extended Speed V_{FE} : 60 KIAS Full Flap

Aeroplanes with Service Bulletin n. P92J-07
(MTOW=550kg), installed: 60 KIAS Full Flap

Maximum structural cruising speed V_{NO} : 95 KIAS

Aeroplanes with Service Bulletin n. P92J-07
(MTOW=550kg), installed: 96 KIAS

Never exceed speed V_{NE} : 121 KIAS

Aeroplanes with Service Bulletin n. P92J-07
(MTOW=550kg), installed: 123 KIAS

11. (Reserved)

12. All weather Capability:

Day-VFR only
Flight into expected or actual icing conditions is prohibited

13. Maximum Masses:

Take-off 535 kg

Zero Fuel	535 kg
Landing	535 kg
Aeroplanes with Service Bulletin n. P92J-07 (MTOW=550kg), installed:	
Take-off	550 kg
Zero Fuel	550 kg
Landing	550 kg
14. Centre of Gravity Range:	
Forward limit	1.72 m (23% MAC) behind Datum
Rear limit:	1.75 m (26% MAC) behind Datum
15. Datum:	Propeller support flange without spacer
16. (Reserved)	
17. Levelling Means:	Cabin floor (see doc. "92/20 P92-J 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	2.10 m aft the datum
22. Wheels and Tyres	
Nose Wheel Tyre Size	4.00-4
Main Wheel Tyre Size	5.00-5

A.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	Document No. 92/20 Last edition
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Document No. 92/21 Last edition
Service Information and Service Bulletins	None

A.V. Notes

NOTE 1 Each aircraft must be provided with a valid "Weighing and Balance Report", containing the list of equipments that must be included in the certification empty weight calculation and, where necessary, the

loading instruction. The empty weight and related CG position calculation must include:

- Not usable fuel 2.6 lt
- Engine Oil 3.5 lt.
- Brake oil 150 gr

NOTE 2 All placards are reported in the Maintenance Manual and in the technical specification n° STT9213

NOTE 3 The Type Design configuration to which conformity must be granted is defined in the following documentation:

- Drawing List Tecnam Doc. 92/19
- Vendor Item List Tecnam Doc. 92/23

NOTE 4 Airworthiness limitations, limited life parts and mandatory scheduled inspections are reported in Sect. 3 of report Tecnam n° 92/30

SECTION B: P92-JS

B.I. General

- | | | |
|---|--|--------------------|
| Data Sheet No.: EASA A.412 | Issue: 01 | Date: 11 June 2010 |
| 1. a) Type: | P92-JS | |
| 2. Airworthiness Category: | CS-VLA Normal Category | |
| 3. Type Certificate Holder: | Costruzioni Aeronautiche TECNAM S.r.l.
Via Tasso, 478
80127 Napoli
ITALIA | |
| 4. Manufacturer: | Costruzioni Aeronautiche TECNAM S.r.l.
Via Tasso, 478
80127 Napoli
ITALIA | |
| 5. Original ENAC Certification date: | 19 December 2001 | |
| 6. EASA Type Certification Date: | 11 June 2010 | |
| 7. This TCDS replaces ENAC/RAI TCDS No. A.340 | | |

B.II. Certification Basis

- | | |
|-------------------------------------|---|
| 1. (Reserved) | |
| 2. (Reserved) | |
| 3. Certification Basis: | As defined in CRI A-01, latest Issue |
| 4. Airworthiness Requirements: | JAR VLA April 26, 1990 for aircraft, Amdt 91/1 and 92/1 |
| 5. Requirements elected to comply: | None |
| 6. EASA Special Conditions: | None |
| 7. EASA Exemptions: | None |
| 8. EASA Equivalent Safety Findings: | None |

9. EASA Environmental Standards: JAR 36 Sub. C Ed. May, 23 1997
ICAO/Annex 16 Cap. 10 ed. 1993

Emission: N/A

B.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Doc. 92/78 ed.1 rev.0 "P92-JS Type design definition"
2. Description: Single engine, two-seat, single strut braced high wing airplane, aluminium and steel construction, fixed tricycle landing gear.
3. Equipment: Equipment list, AFM, Doc. "92/61 Flight Manual", Section 6
4. Dimensions:
- | | | |
|-----------|---------------------|--------------------------|
| Span | 8.7 m | (28.5 ft) |
| Length | 6.4 m | (21.0 ft) |
| Height | 2.5 m | (8.2 ft) |
| Wing Area | 12.0 m ² | (129.2 ft ²) |
5. Engine/s: No.1 Bombardier-Rotax GmbH 912 S2
Certification Basis: FAR 33 amendment 15
Austrian Type Certificate No. TW 9-ACG
dated 27 Nov. 1998
- 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.
92/61 "Flight Manual"
6. (Reserved)
7. Propeller/s: No.1 Hoffmann Propeller HO17GHM 174
177C or Hoffmann Propeller HO17GHM A
174 177C (see note 6)
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

10. Fluids:

8.1 Fuel:

Min. RON 95
EN 228 Premium
EN 228 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

11. Fluid capacities:

9.1 Fuel:

Total: 70 lt (90 lt *see note 5*)
Usable: 66.8 lt (86.8 lt *see note 5*)

9.2 Oil:

Total: 3.5 liters
Minimum: 3.0 liters

10. Air Speeds:

Design Manoeuvring Speed V_A : 93 KIAS
Aeroplanes with modification n. MOD92/41 (MTOW=600kg),,
or equivalent Service Bulletin n. SB011-CS, installed: 97 KIAS

Flap Extended Speed V_{FE} : 68 KIAS Full Flap
Aeroplanes with modification n. MOD92/41 (MTOW=600kg),,
or equivalent Service Bulletin n. SB011-CS, installed: 71 KIAS Full Flap

Maximum structural cruising speed V_{NO} 106 KIAS
Aeroplanes with modification n. MOD92/41 (MTOW=600kg),,
or equivalent Service Bulletin n. SB011-CS, installed: 110 KIAS

Never exceed speed V_{NE} : 134 KIAS
Aeroplanes with modification n. MOD92/41 (MTOW=600kg),,
or equivalent Service Bulletin n. SB011-CS, installed: 141 KIAS

11. (Reserved)

12. All weather Capability:

Day-VFR only
Flight into expected or actual icing conditions is prohibited

13. Maximum Masses:

Take-off 550 kg
Zero Fuel 550 kg
Landing 550 kg
Aeroplanes with modification n. MOD92/41 (MTOW=600kg),,

or equivalent Service Bulletin n. SB011-CS, installed:

Take-off	600 kg
Zero Fuel	600 kg
Landing	600 kg

15. Centre of Gravity Range:
- | | |
|---------------|--------------------------------|
| Forward limit | 1.727 m (23% MAC) behind Datum |
| Rear limit: | 1.769 m (26% MAC) behind Datum |
15. Datum: Propeller support flange without spacer
16. (Reserved)
7. Levelling Means: Cabin floor
(see doc. "92/61 P92-JS 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 | 2.21 m aft the datum |
22. Wheels and Tyres
- | | |
|----------------------|--------|
| Nose Wheel Tyre Size | 4.00-6 |
| Main Wheel Tyre Size | 5.00-5 |

B.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	Document No. 92/61 Last edition
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Document No. 92/58 Last edition
Service Information and Service Bulletins	None

B.V. Notes

- NOTE 1** Each aircraft must be provided with a valid "Weighing and Balance Report", containing the list of equipments that must be included in the certification empty weight calculation and, where necessary, the loading instruction. The empty weight and related CG position calculation must include:
- Not usable fuel 3.2 lt
 - Engine Oil 3.5 lt.
 - Brake oil 150 gr
- NOTE 2** All placards are reported in the Maintenance Manual and in the technical specification n° STT9220
- NOTE 3** The Type Design configuration to which conformity must be granted is defined in the following documentation:
- Drawing List Tecnam Doc. 92/59
 - Vendor Item List Tecnam Doc. 92/70
- NOTE 4** Airworthiness limitations, limited life parts and mandatory scheduled inspections are reported in Sect. 3 of report Tecnam n° 92/80
- NOTE 5** When optional fuel tanks are installed (drawing n° 21-1-340-001/2) the total fuel capacity is 90 lt (1.66 m distance from datum), 86.8 lt usable. For both configurations the unusable fuel is 3.2 lt.
- NOTE 6** The letter "A" in the propeller's designation code means that the propeller has been made by a milling machine. The material and the geometric characteristics remain unchanged.

SECTION C: ADMINISTRATIVE

C.I Type Certificate Holder Record

Costruzioni Aeronautiche TECNAM S.r.l.
Via Tasso, 478
80127 Napoli
ITALIA

C.II Change Record

- Issue 1 This initial issue dated 11 June 2010 replaces ENAC TCDS A.340 and was raised as a result of the approval of Tecnam Mod. 92/41 (P-EASA.A.C. 08372) which increases the MTOW of P92-JS from 550 Kg to 600 Kg.
- Issue 2 1 February 2011 to record replacement of ENAC TC No E-26 on P92-J with EASA TC No EASA.P.108.