TYPE-CERTIFICATE
DATA SHEET

EASA.A.412

TECNAM P92

Type Certificate Holder:
Costruzioni Aeronautiche TECNAM S.p.A
Via S. D’Acquisto, 62
80042 Boscotrecase (Na)
ITALIA

For Models: P92-J
P92-JS
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A.I. General

1. a) Type: P92-J

2. Airworthiness Category: CS-VLA Normal Category

3. Type Certificate Holder: Costruzioni Aeronautiche TECNAM S.p.A.
   Via Salvo D'acquisto, 62
   80042 Boscotrecase (Na)
   ITALIA

4. Manufacturer: Costruzioni Aeronautiche TECNAM S.p.A.
   Via Salvo D'acquisto, 62
   80042 Boscotrecase (Na)
   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: 14th 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:
    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 m² (142.1 ft²)

5. Engine/s (see Note 5):
   BRP-Rotax GmbH 912 A2
   Certification Basis: JAR 22 Appendix H Amendment 1 of 18.05.81
   EASA Type Certificate No. 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. “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.
8. 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

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

    Maximum structural cruising speed $V_{NO}$
    Aeroplanes with Service Bulletin n. P92J-07
    (MTOW=550kg), installed: 96 KIAS

    Never exceed speed $V_{NE}$:
    Aeroplanes with Service Bulletin n. P92J-07
    (MTOW=550kg), installed: 121 KIAS

    Never exceed speed $V_{NE}$:
    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
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 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:
NOTES

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

NOTE 5
When engine with designation extended with suffix “-01” (e.g. Rotax 912 S2-01) is installed (as per MOD92/100, EASA approval 10053864), the engine temperature measurement methods have been amended from CHT (cylinder head temperature) and CT (coolant temperature) to only CT (coolant temperature).
SECTION B: P92-JS

B.I. General

1. a) Type: P92-JS

2. Airworthiness Category: CS-VLA Normal Category

3. Type Certificate Holder: Costruzioni Aeronautiche TECNAM S.p.A. Via Salvo D'acquisto, 62 80042 Boscotrecase (Na) ITALIA

4. Manufacturer: Costruzioni Aeronautiche TECNAM S.p.A. Via Salvo D'acquisto, 62 80042 Boscotrecase (Na) 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
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.


4. Dimensions:
   
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<tr>
<th>Dimension</th>
<th>Value</th>
<th>Unit</th>
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<tbody>
<tr>
<td>Span</td>
<td>8.7 m</td>
<td>(28.5 ft)</td>
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<tr>
<td>Length</td>
<td>6.4 m</td>
<td>(21.0 ft)</td>
</tr>
<tr>
<td>Height</td>
<td>2.5 m</td>
<td>(8.2 ft)</td>
</tr>
<tr>
<td>Wing Area</td>
<td>12.0 m²</td>
<td>(129.2 ft²)</td>
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</table>

5. Engine/s (note 7):
   
   BRP-Rotax GmbH 912 S2
   Certification Basis: FAR 33 amendment 15
   EASA Type Certificate No. 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. 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
8. 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

9. 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

14. 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**


Service Information and Service Bulletins None
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.

NOTE 7

When engine with designation extended with suffix “-01” (e.g. Rotax 912 S2-01) is installed (as per MOD92/100, EASA approval 10053864), the engine temperature measurement methods have been amended from CHT (cylinder head temperature) and CT (coolant temperature) to only CT (coolant temperature).
SECTION C: ADMINISTRATIVE

C.I Type Certificate Holder Record

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<th>Period</th>
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<tr>
<td>Costruzioni Aeronautiche TECNAM S.r.l. Via Tasso, 478 80127 Napoli, ITALIA</td>
<td>until 12th November 2019</td>
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<tr>
<td>Costruzioni Aeronautiche TECNAM SPA Via S. D’acquisto, 62 80042 Boscotrecase (Na), ITALIA</td>
<td>Effective</td>
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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.

Issue 3 Company business name and address updated.

Issue 4 Updated Engine designation (field 5 in A.III and B.III); added note 5 in A.V and note 7 B.V;