



European Aviation Safety Agency

EASA

**TYPE-CERTIFICATE
DATA SHEET**

EASA.A.576

P2010

Costruzioni Aeronautiche TECNAM S.r.l.

Via Tasso, 478
80127 Napoli
ITALIA

Issue 01: 26 Sept 2014
Issue 02: 05 May 2015
Issue 03: 16 Dec 2015
Issue 04: 22 Dec 2016
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SECTION A: P2010

A.I. General

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|---|--|
| 1. Data Sheet No.: | EASA.A.576 |
| 2. a) Type: | P2010 |
| 3. Airworthiness Category: | CS-23 Normal category |
| 4. Type Certificate Holder: | Costruzioni Aeronautiche Tecnam S.R.L.
Via Tasso, 478
80127 Napoli
ITALIA |
| 5. Manufacturer: | Costruzioni Aeronautiche Tecnam S.R.L.
Via Tasso, 478
80127 Napoli
ITALIA |
| 6. Certification Application Date: | 15 September 2010 |
| 7. (Reserved) National Certifying Authority | N/A |
| 8. (Reserved) National Authority Type Certificate Date: | N/A |

A.II. EASA Certification Basis

- | | |
|--|--|
| 1. Reference Date for determining the applicable requirements: | 15 September 2010 |
| 2. Airworthiness Requirements: | EASA CS-23 amdt.2 dated 28 September 2010
EASA CS-ACNS |
| 3. Special Conditions: | CRI B-52 (SC-B23.div-01 Human Factors – Integrated Avionic System);
CRI F-101 (SC-F23-1309-02 Protection from the Effect of HIRF);
CRI F-54 (SC-F23-1309-03 Protection from the Effects of Lightning Strike, Indirect Effects);
CRI F-58 (SC-F23.1353-02 Lithium Battery Installations) |
| 3. Exemptions: | None |
| 4. Deviations: | None |
| 5. Equivalent Safety Findings: | None |
| 6. Requirements elected to comply: | EASA CS-23 amdt.4 para. 23.1306
EASA CS-23 amdt.4 para. 23.1308 |

7. Environmental Standards: CS-36 amdt. 2 dated 31 August 2009, subpart C with reference to ICAO Annex 16, Volume 1, Chapter 10, amdt. 9 dated 30 July 2009.
8. (Reserved) Additional National Requirements: N/A
9. (Reserved) N/A
10. Operational Suitability Requirements OSD MMEL: CS-GEN-MMEL, Initial Issue dated 31 January 2014

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Document no. 2010/010 "Type Design Definition"
2. Description:
- 2.1 Basic: Single-engine, fixed pitch propeller, four seats, high wing aeroplane equipped with fixed tricycle landing gear, featuring composite, aluminium and steel construction.
- 2.2 Optional (see note 1,3) Single-engine, variable pitch propeller, four seats, high wing aeroplane equipped with fixed tricycle landing gear, featuring composite, aluminium and steel construction.
3. Equipment: Equipment list, AFM, doc. No. 2010/100, Section 6
4. Dimensions:
- | | |
|-----------|--|
| Span | 10.30 m (33.79 ft) |
| Length | 7.97 m (26.15 ft) |
| Height | 2.64 m (8.66 ft) |
| Wing Area | 13.9 m ² (149.6 ft ²) |
5. Engine:
- 5.1 Basic
- 5.1.1 Model: No.1 Lycoming Engines: IO-360-M1A
- 5.1.2 Type Certificate: EASA Type Certificate No. EASA.IM.E.032
- 5.1.3 Limitations
- 5.1.3.1 Basic: Take-Off Power 134 kW (180HP) at 2700 RPM
Max continuous power 134 kW (180HP) at 2700 RPM
Other engine's limitations are listed in doc. No. 2010/100 "P2010 Aircraft Flight Manual", Section 2
- 5.1.3.2 Optional (see note 1) Take-Off Power 134 kW (180HP) at 2700 RPM
Max continuous power 129 kW (173HP) at 2600 RPM
Other engine's limitations are listed in doc. No. 2010/100 "P2010 Aircraft Flight Manual", Section 2

5.2 Optional (see note 3)

5.2.1 Model: No.1 Lycoming Engines: IO-390-C3B6

5.2.2 Type Certificate: EASA Type Certificate No. EASA.IM.E.097

5.2.3 Limitations

5.2.3.1 Basic: Take-Off Power 160.3 kW (215HP) at 2700 RPM
Max continuous power 160 kW (215HP) at 2700 RPM
Other engine's limitations are listed in doc. No. 2010/100 "P2010 Aircraft Flight Manual", Section 2

6. Load factors:	Flap UP	Flap DOWN
Positive	+3.8 g	+2.0 g
Negative	-1.52 g	0.0 g

7. Propeller:

7.1 Basic:

7.1.1 Model: MT Propeller: MT 188 R 145-4G

7.1.2 Type Certificate: EASA Type Certificate No. EASA.P.006

7.1.3 Number of blades: 2

7.1.4 Diameter: 1.880 m (74 in) – No reduction is permitted

7.1.5 Sense of Rotation: Clockwise (pilot's view)

7.2 Optional 1:(see note 1)

7.2.1 Model: MT Propeller: MTV-15-B/193-52

7.2.2 Type Certificate: EASA Type Certificate No. EASA.P.098

7.2.3 Number of blades: 2

7.2.4 Diameter: 1.930 m (76 in) – No reduction is permitted

7.2.5 Sense of Rotation: Clockwise (pilot's view)

7.3 Optional 2:(see note 3)

7.3.1 Model: MT Propeller: MTV-12B/183-59

7.3.2 Type Certificate: EASA Type Certificate No. EASA.P.013

7.3.3 Number of blades: 3

7.3.4 Diameter: 1.830 m (72 in) – No reduction is permitted

7.3.5 Sense of Rotation: Clockwise (pilot's view)

8.1 Fuel: AVGAS Grade 91/96 or 100 LL (ASTM D910) (see note 3)
MOGAS EN 228 (E) (see note 2)
Refer to doc. No. 2010/100 "P2010 Aircraft flight Manual" for further details.

8.2 Oil:	Average Ambient Temperature	MIL-L-6082B or SAEJ1966 Spec. Mineral Grades	MIL-L-22851 or SAEJ1899 Spec. Ashless Dispersant Grades
	All Temperatures	----	SAE15W50 or SAE20W-50
	Above 80°F	SAE60	SAE60
	Above 60°F	SAE50	SAE40 or SAE50
	30°F to 90°F	SAE40	SAE40
	0°F to 70°F	SAE30	SAE40, SAE30, SAE20W40
	Below 10°F	SAE20	SAE30 or SAE20W30

Refer to Lycoming (L)IO-360-M1A “Operation and Installation Manual” and Lycoming (L)IO-390-C1B3 “Operation and Installation Manual” for list of alternative recommended commercial brands and types.

9. Fluid capacities:

9.1 Fuel:	2 Tanks:	120 litres each (31.7 US gallons)
	Total:	240 litres (63.4 US gallons)
	Usable:	231 litres (61 US gallons)

9.2.1 Oil:	Total:	7.57 litres (8 US qts)
	Minimum:	3.78 litres (4 US qts)

9.2.2 Oil (see note 3):	Total:	6.62 litres (7 US qts)
	Minimum:	1.89 litres (2 US qts)

10. Air Speeds:	Never exceed speed V_{NE}	164 KCAS
	Maximum Structural Cruising Speed V_{NO}	130 KCAS
	Design Manoeuvring speed V_A	119 KCAS
	Operating Manoeuvring speed V_O	119 KCAS
	Maximum flaps extended speed V_{FE}	92 KCAS

11. Maximum Operating Altitude:	12000 ft
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12. Allweather Operations Capability: Day/Night-VFR, IFR ;
Refer to KOEL contained in the AFM, doc. No. 2010/100, Section 2.
Flight into expected or actual icing conditions is prohibited
13. Maximum Weights: Max Take-Off: 1160 kg (2557 lb)
Max Landing: 1160 kg (2557 lb)
14. Centre of Gravity Range: Forward Limit: 0.262 m (19% MAC) behind datum
Aft Limit: 0.440 m (32% MAC) behind datum
Mean Aerodynamic Chord is 1.378 m (54.2 in)
15. Datum: Vertical plane tangent to wing leading edge
16. Control surface deflections: Stabilator: $17^{\circ} \pm 2^{\circ}$ to pitch up / $6^{\circ} \pm 2^{\circ}$ to pitch down
Stabilator Trim Tab: $15 \pm 1^{\circ}$ downward / $3^{\circ} \pm 1^{\circ}$ upward
Aileron: $19^{\circ} \pm 2^{\circ}$ upward / $14^{\circ} \pm 2^{\circ}$ downward
Rudder: $25^{\circ} \pm 2^{\circ}$ left / $25^{\circ} \pm 2^{\circ}$ right
Rudder Trim Tab: $20^{\circ} \pm 2^{\circ}$ left / $20^{\circ} \pm 2^{\circ}$ right
Flaps: 0° Fully Retracted / $40^{\circ} \pm 1^{\circ}$ Fully Extended
17. Levelling Means: seat track supporting beams (see procedure in doc. No. 2010/100 "P2010 Aircraft Flight Manual", Section 6)
18. Minimum Flight Crew: 1
19. Maximum Passenger Seating Capacity: 3
20. Baggage/Cargo Compartments: Max Allowable Load: 40 kg (88 lb)
Location: 1.56 m (61.41 in) from datum
21. Wheels and Tyres: Nose Wheel Tyre Size: 5.00-5, Type III
Main Wheel Tyre Size 6.00-6, Type III
For approved Types and rating see AMM, doc No. 2010/101
22. Serial Numbers Eligible: 002 to subsequent

A.IV. Operating and Service Instructions

1. Flight Manual: Doc. No. 2010/100 "P2010 Aircraft Flight Manual"
Last issue.
2. Technical Manual: Doc. No. 2010/101 "P2010 Aircraft Maintenance
Manual" Last issue;
Airworthiness Limitations are reported in ATA
chapter 4.
3. Spare Parts Catalogue: Doc. No. 2010/102 "P2010 Illustrated Parts
Catalogue" Last issue.
4. Instruments and aggregates: Doc. No. 2010/101 "P2010 Aircraft Maintenance
Manual" Last issue.

A.V. Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate EASA.A.576 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014.

1. Master Minimum Equipment List (MMEL)

The MMEL is defined in the P2010 GEN.MMEL, Report n°2010/164, Revision 0 or later approved revisions.

A.V. Notes:

- 1) When MOD 2010/002 (EASA approval 10052750) is installed
- 2) When MOD 2010/032 (EASA approval 10055692) is installed
- 3) When MOD 2010/078 (EASA approval 10065113) is installed

ADMINISTRATIVE SECTION

I. Acronyms

AFM – Aircraft Flight Manual
 AMM – Aircraft Maintenance Manual
 ASTM – American Society for Testing and Materials
 CRI – Certification Review Item
 CS – Certification Specification
 EASA – European Aviation Safety Agency
 ICAO – International Civil Aviation Organization
 IPC – Illustrated Part Catalogue
 KCAS – Knots Calibrated Air Speed
 KOEL – Kind of Operations Equipment List
 MAC – Mean Aerodynamic Chord
 MLW – Maximum Landing Weight
 MTOW – Maximum Take-Off Weight
 MZFW – Maximum Zero Fuel Weight
 TC – Type Certificate
 TCDS – Type Certificate Data Sheet
 VFR – Visual Flight Rules
 IFR – Instrumental Flight Rules

II. Type Certificate Holder Record

TC Holder	Period
Costruzioni Aeronautiche TECNAM S.r.l. Via Tasso, 478 80127 Napoli ITALIA	Effective

III. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	26 Sept 2014	Initial Issue	26 Sept 2014
Issue 02	05 May 2015	MT Variable Pitch Propeller Added	
Issue 03	16 Dec 2015	Update to include changes: MOD2010/001 "GFC 700 autopilot" (EASA approval 10055187), MOD2010/003 "Alternative avionics configuration" (EASA approval 10053996), MOD2010/032 Automobile fuel (EASA approval 10055692)	
Issue 04	22 Dec 2016	Introduction of OSD MMEL. CRI F-102 (and corresponding note 3) has been removed since it is not a special condition	
Issue 05	29 March 2018	Amended to include change MOD2010/078 (EASA approval 10065113)	