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**EASA**

**TYPE-CERTIFICATE  
DATA SHEET**

**EASA.A.576**

**P2010**

**Costruzioni Aeronautiche TECNAM S.P.A.**

Via S. D'acquisto, 62  
80042 Boscotrecase, Napoli  
ITALIA

Issue 01: 26 Sept 2014  
Issue 02: 05 May 2015  
Issue 03: 16 Dec 2015  
Issue 04: 22 Dec 2016  
Issue 05: 29 March 2018  
Issue 06: 25 March 2019  
Issue 07: 23 May 2019  
Issue 08: 20 Dec 2019  
Issue 09: 07 Aug 2020  
Issue 10: 08 Oct 2020  
Issue 11: 31 May 2021

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## **SECTION A: P2010**

### **A.I. General**

- |   |   |
|---|---|
| 1. Data Sheet No.:                                      | EASA.A.576  |
| 2. a) Type:   | P2010   |
| b) Model:   | P2010   |
| c) Variant:   | --_   |
| 3. Airworthiness Category:                              | CS-23 Normal category   |
| 4. Type Certificate Holder:                             | Costruzioni Aeronautiche Tecnam S.p.A.<br>Via Salvo D'acquisto 62<br>80042 Boscotrecase, Napoli<br>ITALIA |
| 5. Manufacturer:  | see Note 5  |
| 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<br>EASA CS-ACNS  |
| 3. Special Conditions:   | CRI B-52 (SC-B23.div-01 Human Factors – Integrated Avionic System);<br>CRI F-101 (SC-F23-1309-02 Protection from the Effect of HIRF);<br>CRI F-54 (SC-F23-1309-03 Protection from the Effects of Lightning Strike, Indirect Effects);<br>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<br>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 <sup>2</sup> (149.6 ft <sup>2</sup> ) |
5. Engine:
- 5.1 Basic
- 5.1.1 Model: 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: 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 ( ) (see note 6)

###### 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 ( ) (see note 6)

###### 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. Fluids

##### 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: 3.78 litres (4 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  
14000 ft (see note 7)

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  
Stabilator Trim Tab:  $6 \pm 1^{\circ}$  downward /  $3^{\circ} \pm 1^{\circ}$  upward (see note 4)  
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:  $0^{\circ}$  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 5.00-5, Type III  
Size: 6.00-6, Type III  
Main Wheel Tyre  
Size  
For approved Types and rating see AMM, doc No. 2010/101
22. Serial Numbers Eligible: See Note 5

#### **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 Union 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.VI. 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
- 4) When MOD 2010/133 (EASA approval 10069356) is installed
- 5) Manufacturer's eligible serial numbers:
  - s/n 002 to subsequent for a/c manufactured by C.A. Tecnam S.P.A. under certificate EASA production certificate IT.21G.0032,
  - s/n CP-001 to subsequent for a/c manufactured by LUSY Co. LTD under certificate CAAC production certificate PC0034A-DB

The aircraft s/n CP-001 to subsequent can be delivered in China (including Hong Kong, Macao and Taiwan), Mongolia, North Korea & Pakistan and cannot be registered in Europe.
- 6) As per Manufacturer TCDS, propellers with designation having a "small" letter in the place of the brackets (for example "MTV-14-B-C-F/CF 195-30x") may be installed since it does not affect interchangeability. A capital letter in the place of the bracket (for example MTV-14-B-C-F/CF 195-30X) may not be installed according to propeller TCDS since it may affect interchangeability
- 7) When MOD 2010/194 (EASA approval 10073987) and MOD2010/078 (EASA approval 10065113) are installed

## **SECTION B: P2010 TDI**

### **B.I. General**

- |   |   |
|---|---|
| 1. Data Sheet No.:                                      | EASA.A.576  |
| 2. a) Type:   | P2010   |
| b) Model:   | P2010 TDI   |
| c) Variant:   | --_   |
| 3. Airworthiness Category:                              | CS-23 Normal category   |
| 4. Type Certificate Holder:                             | Costruzioni Aeronautiche Tecnam S.p.A.<br>Via Salvo D'acquisto 62<br>80042 Boscotrecase, Napoli<br>ITALIA |
| 5. Manufacturer:  | See B.VI, Note 1  |
| 6. Certification Application Date:                      | 29 April 2019   |
| 7. (Reserved) National Certifying Authority             | N/A   |
| 8. (Reserved) National Authority Type Certificate Date: | N/A   |

### **B.II. EASA Certification Basis**

- |  |   |
|--|---|
| 1. Reference Date for determining the applicable requirements: | 29 April 2019   |
| 2. Airworthiness Requirements:                                 | EASA CS-23 amdt.2 dated 28 September 2010<br>EASA CS-ACNS   |
| 3. Special Conditions:   | CRI B-52 (SC-B23.div-01 Human Factors – Integrated Avionic System);<br>CRI F-58 (SC-F23.1353-02 Lithium Battery Installations)<br>CRI E-103 (para.1) Installation of the diesel engine TAE 125-02<br>CRI E-104 (SC-CS-23.1305- Fuel low level annunciation means) |
| 3. Exemptions:   | None  |
| 4. Deviations:   | None  |
| 5. Equivalent Safety Findings:                                 | CRI E-103 (para.3) Installation of the diesel engine TAE 125-02   |
| 6. Requirements elected to comply:                             | EASA CS-23 amdt.4 para. 23.1306<br>EASA CS-23 amdt.4 para. 23.1308  |
| 7. Environmental Standards:                                    | CS-36 amdt. 5 reference to ICAO Annex 16, Volume I, 8th Edition, July 2017  |
| 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

### **B.III. Technical Characteristics and Operational Limitations**

1. Type Design Definition: Document no. 2010/637 "Type Design Definition"
2. Description:
- 2.1 Basic: 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. 2010/552, Section 6
4. Dimensions:
- |           |  |
|-----------|--|
| Span      | 10.30 m (33.79 ft)                           |
| Length    | 7.91 m (25.95 ft)                            |
| Height    | 2.84 m (9.32 ft)                             |
| Wing Area | 13.9 m <sup>2</sup> (149.6 ft <sup>2</sup> ) |
5. Engine:
- 5.1 Basic
- 5.1.1 Model: Continental Engines: TAE 125-02-125
- 5.1.2 Type Certificate: EASA Type Certificate No. EASA.E.055
- 5.1.3 Limitations Take-Off Power 125 kW (168HP) at 2300 RPM  
Max continuous power 114 kW (153HP) at 2250 RPM  
Other engine's limitations are listed in doc. No. 2010/552 "P2010 TDI 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: MTV-6-R /190-69
- 7.1.2 Type Certificate: EASA Type Certificate No. EASA.P.094
- 7.1.3 Number of blades: 3
- 7.1.4 Diameter: 1.900 m (75 in) – No reduction is permitted
- 7.1.5 Sense of Rotation: Clockwise (pilot's view)

8. Fluids

- 8.1 Fuel: JET A-1 (ASTM –D-1655)  
Diesel (EN 590)  
Refer to doc. No. 2010/552 “P2010 TDI Aircraft Flight Manual” for further details.
- 8.2 Oil: Engine Aero Shell Oil Diesel Ultra, Shell Helix Ultra 5W30 or see applicable AFM, Section 2.
- Gearbox Centurion Gearbox Oil N1, or see applicable AFM, Section 2
- 8.3 Coolant Water / Cooler Protection  
for more details see applicable AFM, Section 2
- 8.4 Ice Protection Fluids: Liqui Moly "Diesel Fliess-Fit" or see applicable AFM, Section 2

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. Oil: Total: 6 litres (6.34 US qts)  
Minimum: 4.5 litres (4.75 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  
121 KCAS  
(see B.VI, note 2)
- Operating Manoeuvring speed  $V_O$  119 KCAS  
121 KCAS  
(see B.VI, note 2)
- Maximum flaps extended speed  $V_{FE}$  92 KCAS LND  
101 KCAS TO  
93 KCAS LND  
103 KCAS TO  
(see B.VI, note 2)

11. Maximum Operating Altitude: 18000 ft

12. All-weather Operations Capability:

Day/Night-VFR, IFR;  
Refer to KOEL contained in the AFM, doc. No. 2010/552, Section 2.  
Flight into expected or actual icing conditions is prohibited



#### **B.IV. Operating and Service Instructions**

5. Flight Manual: Doc. No. 2010/552 "P2010 TDI Aircraft Flight Manual" Last issue.
6. Technical Manual: Doc. No. 2010/553 "P2010 TDI Aircraft Maintenance Manual" Last issue;  
Airworthiness Limitations are reported in ATA chapter 4.
7. Spare Parts Catalogue: Doc. No. 2010/638 "P2010 TDI Illustrated Parts Catalogue" Last issue.
8. Instruments and aggregates: Doc. No. 2010/553 "P2010 Aircraft Maintenance Manual" Last issue.

#### **B.V. Operational Suitability Data (OSD)**

The Operational Suitability Data elements listed below are approved by the European Union 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.

**B.VI. Notes:**

- 1) Manufacturer's eligible serial numbers:
  - S/N 100 to subsequent (when MOD2010/162 is installed - EASA approval 10074522) for A/C manufactured by C.A. Tecnam S.P.A. under certificate EASA production certificate IT.21G.0032,
- 2) When MOD 2010/207 (EASA approval 10076578) 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 Union 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

<b>TC Holder</b>	<b>Period</b>
Costruzioni Aeronautiche TECNAM S.p.A. Via Salvo D'acquisto 62 80042 Boscotrecase, 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)	
Issue 06	25 March 2019	Amended to include change MOD2010/133 (EASA approval 10069356), remove typos and update company business registration.#	
Issue 07	23 May 2019	Added Chinese manufacturer, updated eligible s/n and Company address	
Issue 08	20 Dec 2019	Updated propeller designation (field A.III (7.2 and 7.3). Added note 6	
Issue 09	07 Aug 2020	Amended to remove typo and include change MOD2010/194 (EASA approval 10073987)	
Issue 10	08 Oct 2020	Amended to included P2010 TDI model (MOD2010/162 –EASA approval 10074522)	
Issue 11	31 May 2021	Amended to include change MOD2010/207 (EASA approval 10076578) and remove typo in notes reference	