

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

Issue 12: 23 March 2023

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SECTION A: P2010

A.I. General

1. Data Sheet No.: EASA.A.576

2. a) Type: P2010b) Model: P2010

c) Variant: --_

3. Airworthiness Category: CS-23 Normal category

4. Type Certificate Holder: Costruzioni Aeronautiche Tecnam S.p.A.

Via Salvo D'acquisto 62 80042 Boscotrecase, Napoli

ITALIA

5. Manufacturer: see Note 5

6. Certification Application Date: 15 September 2010

7. (Reserved) National Certifying

Authority

8. (Reserved) National Authority

Type Certificate Date:

N/A

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: None4. Deviations: None

5. Equivalent Safety Findings: None

6. Requirements elected to EASA CS-23 amdt.4 para. 23.1306

comply: EASA CS-23 amdt.4 para. 23.1308

7. Environmental Standards: Refer to TCDSN EASA.A.576

8. Operational Suitability OSD MMEL: CS-GEN-MMEL, Initial Issue

Requirements dated 31 January 2014

A.III. <u>Technical Characteristics and Operational Limitations</u>

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 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:

(see note 1,3)

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 m² (149.6 ft²)

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 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)

(see note 1)

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

MIL-L-6082B or MIL-L-22851 or

	8.2 Oil:	Averaç Ambie Tempera	nt	MIL-L-6082B or SAEJ1966 Spec. Mineral Grades	SAEJ1899 Spec.
		All Temper	atures		SAE15W50 or SAE20W-50
		Above 80°F	F	SAE60	SAE60
		Above 60°F	=	SAE50	SAE40 or SAE50
		30°F to 90°		SAE40	SAE40
		0°F to 70°F	=	SAE30	SAE40, SAE30, SAE20W40
		Below 10°F	Ξ	SAE20	SAE30 or SAE20W30
		and Installa	ation Ma "Opera ternativ	(L)IO-360-M1A anual" and Lycon tion and Installati re recommended	ning (L)IO- ion Manual"
9.	Fluid capacities:				
	9.1 Fuel:	2 Tanks: Total: Usable:	240 lit	res each (31.7 U res (63.4 US gall res (61 US gallor	lons)
	9.2.1 Oil:	Total: Minimum:		tres (8 US qts) tres (4 US qts)	
	9.2.2 Oil (see note 3):	Total: Minimum:		tres (7 US qts) tres (4 US qts)	
10.	. Air Speeds:	Never exce	Never exceed speed V _{NE} Maximum Structural Cruising Speed V _{NO} Design Manoeuvring speed V _A		164 KCAS
		Maximum Speed V _{NO}			130 KCAS
		Design Ma			119 KCAS
		Operating I	Manoeı	uvring speed V ₀	119 KCAS
		Maximum flaps extended speed		tended speed V _F	92 KCAS
11.	. Maximum Operating Altitude:	12000 ft			
40	Allerra ath an On anation a	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-1160 kg (2557 lb) Off:

1160 kg (2557 lb)

Max Landing:

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

Stabilator: 17°±2° to pitch up / 6°±2° to pitch 16. Control surface deflections:

down

Stabilator Trim Tab: 15 ±1° downward / 3°±1°

upward

Stabilator Trim Tab: 6 ±1° downward / 3°±1°

upward (see note 4)

Aileron: 19°±2° upward / 14°±2° downward

Rudder: 25°±2° left / 25°±2° right

Rudder Trim Tab: 20°±2° left / 20° ±2° right

Flaps: 0° Fully Retracted / 40°±1° 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.

Via Salvo D'acquisto 62 80042 Boscotrecase, Napoli

ITALIA

5. Manufacturer: See B.VI, Note 1

6. Certification Application Date: 29 April 2019

7. (Reserved) National Certifying N/A

Authority

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

EASA CS-ACNS

3. Special Conditions: CRI B-52 (SC-B23.div-01 Human Factors –

Integrated Avionic System);

CRI F-58 (SC-F23.1353-02 Lithium Battery

Installations)

CRI E-103 (para.1) Installation of the diesel

engine TAE 125-02

CRI E-104 (SC-CS-23.1305- Fuel low level

annunciation means)

3. Exemptions: None4. 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

EASA CS-23 amdt.4 para. 23.1308

7. Environmental Standards: Refer to TCDSN EASA.A.576

8. Operational Suitability OSD MMEL: CS-GEN-MMEL, Initial Issue dated

Requirements 31 January 2014

B.III. <u>Technical Characteristics and Operational Limitations</u>

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 m² (149.6 ft²)

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}

Design Manoeuvring speed V_A 119 KCAS

121 KCAS (see B.VI, note 2) 122 KCAS (see B.VI, note 3)

130 KCAS

Operating Manoeuvring speed Vo 119 KCAS

121 KCAS (see B.VI, note 2) 122 KCAS (see B.VI, note 3)

Maximum flaps extended speed V_{FE} 92 KCAS LND

101 KCAS TO 93 KCAS LND 103 KCAS TO (see B.VI, note 2) 94KCAS LND

104 KCAS TO (see B.VI, note 3)

11. Maximum Operating Altitude: 18000 ft

12. All-weather Operations Day/Night-VFR, IFR;

Capability: Refer to KOEI

Refer to KOEL contained in the AFM, doc. No. 2010/FF2 Section 2

2010/552, Section 2.

Flight into expected or actual icing conditions is

prohibited

13. Maximum Weights: Max Take-Off: 1160 kg (2557 lb)

1200 Kg (2645 lb) (see B.VI, note 2) 1220 Kg (2690 lb) (see B.VI, note 3)

Max Landing: 1160 kg (2557 lb)

1200 Kg (2645 lb) (see B.VI, note 2) 1220 Kg (2690 lb) (see B.VI, note 3)

14. Centre of Gravity Range: Forward Limit:

 $0.275~\mathrm{m}$ (19% MAC) behind datum up to 1000Kg $0.330~\mathrm{m}$ (23% MAC) behind datum up to MTOW or

- 0.344 m (24% MAC) behind datum up to

MTOW (see B.VI, note 2)

- 0.351 m (24,5% MAC) behind datum up to

MTOW (see B.VI, note 3)

Aft Limit:

0.454 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 TE: 17°±2° upward/ 6°±2° downward

Stabilator Trim Tab TE (Stabliator 0°): 8±2°

downward/ 2°±2° upward

Aileron TE: 19°±2° upward/ 14°±2° downward

Rudder TE: 25°±2° left/ 25°±2° right

Rudder Trim Tab TE: 20°±2° left/ 20° ±2° right

Flaps TE: 0° Fully Retracted/ 40°±1° Fully Extended

17. Levelling Means: seat track supporting beams (see procedure in doc.

No. 2010/552 "P2010 TDI Aircraft Flight Manual",

Section 6)

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating

Capacity:

20. Baggage/Cargo

Max Allowable Load: 40 kg (88 lb)

Compartments: 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.

2010/553

22. Serial Numbers Eligible: See B.VI, Note 1

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
- 3) When MOD 2010/269 (EASA approval 10081499) 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

TE - Trailing Edge

II. Type Certificate Holder Record

TC Holder	Period
Costruzioni Aeronautiche TECNAM S.p.A.	Effective
Via Salvo D'acquisto 62	
80042 Boscotrecase, Napoli	
ITALIA	

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	
Issue 12	23 March 2023	Amended to include change MOD2010/269 (EASA approval 10081499), included reference to TCDSN and improved control surface deflection information on P2010TDI	