



Reporte de Aceptación de Certificado Tipo



Type Certificate Acceptance Report

No. EASA A.185, Issue 02

TECNAM P2006T

GSAC-4.0-8-02
Versión: 01
26/05/2009



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RESUMEN (SUMMARY)

La aceptación de Tipo Colombiana ha sido otorgada para los modelos P2006T de Tecnam basados en el Certificado Tipo de la EASA número A.185 Issue 02.

La aplicabilidad es para el modelo Tecnam P2006T, que ya es elegible para la emisión de un certificado de Aeronavegabilidad estándar de acuerdo con los Reglamentos Aeronáuticos Colombianos RAC numeral 4.4.1.8., esta aceptación estará sujeta a cualquier requerimiento excepcional operacional que requiera ser cumplido (Ver ítem 5 de este reporte para una revisión del cumplimiento del diseño básico con las reglas operacionales).

Colombian Civil Aviation Authority grants Type Certificate Acceptance for the model P2006T of Tecnam based on the EASA Type Certificate A.185 Issue 02.

Applicability is for Tecnam P2006T model, which is eligible for the issue of a Standard Airworthiness Certificate according to Colombian Regulations - RAC section 4.4.1.8. This Acceptance is subject to any outstanding Colombian operational requirement. (See item 5 of this report for a review of compliance of the basic type design with the operating Rules).

1. INTRODUCCIÓN (INTRODUCTION)

Este reporte detalla los aspectos para la aceptación del Certificado Tipo de la EASA A.185, con el objeto de emitir un Certificado de Aeronavegabilidad Estándar en Colombia, de acuerdo con los RAC Parte 9ª literal **§9.1 (d) y 9.2.3.**

*This report details the basis on which EASA Type Certificate No. A.185 was accepted, for the issue of the Colombian Standard Airworthiness Certificate, in accordance with the RAC's, part **9.1 (d) and 9.2.3.***

Específicamente este reporte esta dirigido a:
Specifically the report aims to:

(a) Determinar los estándares de diseño del código de aeronavegabilidad asociados al certificado tipo extranjero para la aceptación de este modelo de aeronave en Colombia.	(a) <i>State Design standards of the airworthiness code related to the foreign Type Certificate for the acceptance of this aircraft model in Colombia.</i>
(b) Identificar cualquier condición especial, nivel equivalente de seguridad o excepción aplicable al modelo cubierto por el Certificado Tipo.	(b) <i>Identify any special conditions, Safety Equivalent Level, or applicable exception to a model covered by the Type Certificate.</i>
(c) Establecer cualquier requerimiento adicional que deba ser cumplido, antes de emitir el Certificado de Aeronavegabilidad Estándar en Colombia.	(c) <i>Determine any additional requirement that must be complied before Colombian Airworthiness Certificate be issued</i>



2. DETALLES DE CERTIFICACIÓN DE TIPO OACI (ICAO TYPE CERTIFICATE DETAILS)

El modelo Tecnam P2006T cumple con los estándares de aeronavegabilidad definidos en los anexos 8 y 16 de OACI, respecto a los requisitos de diseño, requisitos de aeronavegabilidad continuada y de ruido. El fabricante establece que no existe ninguna diferencia que deba ser evaluada.

The Tecnam P2006T model is in compliance with the ICAO annexes 8 and 16 about rules necessities for the design, continued airworthiness conditions and noise compliance. The manufacturer establishes that there is no difference that should be evaluated.

3. DETALLES DE ACEPTACIÓN DE TIPO (TYPE ACCEPTANCE DETAILS)

La aplicación para la aceptación del Certificado Tipo de la aeronave Tecnam modelo P2006T fue solicitada por el fabricante el 11 de mayo de 2012 y fue aprobada el 20 de Septiembre de 2012, basada en el Certificado Tipo de la EASA No. A.185, e incluye los motores Rotax 912 S3, aprobados mediante certificados tipo EASA No. TC No. E.121.

The application for Colombian type certificate acceptance of the Tecnam Model P2006T, was received from the manufacturer, Tecnam, on 11st May 2012, Type Acceptance Certificate was approved on 20 September 2012, based on the EASA Type Certificate A.185, and includes the Rotax 912 S3 engines, approved under EASA Type Certificate number E.121.

4. REQUERIMIENTOS DE LOS RAC PARTE 9ª (COLOMBIAN RAC PART 9TH DATA REQUIREMENTS)

Los requerimientos establecidos en la parte Novena de los RAC han sido cumplidos y se sustentan en la hoja de datos del Certificado Tipo EASA No. A.185 issue 02 de fecha 30 de Marzo de 2012 y con los siguientes documentos:

The Type Data requirements of RAC Part 9 have been satisfied according to the Type Certificate Data Sheet EASA No. A.185 issue 02 dated March 30th, 2012 and the following documents:

(1) Certificados Tipos (*Type certificates*):

- EASA No. A.185, issue 02 dated March 30th, 2012.
- Rotax 912 S3 engine approved under EASA Type Certificate number E.121.
- Propeller MT Propeller (FAA TC P16BO)

(2) Resumen de los ítems de Certificación (*Summary certification item*)

(i) *Certification Basis:*
EASA CS-23



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EASA CS-36

(ii) *Equivalent Safety Findings ESF and Special Conditions SC (CRI's):*

CRI D01 Ditching Emergency Exits (ESF).

CRI D02 Main Door (ESF).

CRI D03 Flight Protection of Flight Controls and other flight structure (ESF).

CRI E01 Liquid cooling - coolant tank (ESF).

CRI F01 Basic Analogic Cockpit Version (SC).

(iii) *Airworthiness Limitations:*

ITEM			REQUIREMENT	LIMIT
ATA	Component	Part number		
	Oil system flexible hose	26-9-1565-000	Life limit	5 years
	Wing front spar cap	26-1-1100-001/002	Life limit	10000 hrs
	Rudder Trim Actuator	B6-11T	Life limit	1000 hrs
	Main landing gear	26-8-1100-001/002	Life limit	4000 landings ⁽¹⁾
	Nose landing gear	26-8-1400-000	Life limit	4000 landings ⁽¹⁾
	Horizontal tail	26-4-1000-000	Life limit	36000 hrs
	Vertical tail	26-4-2000-000	Life limit	44000 hrs
	Fuselage	26-2-0000-000	Life limit	140000 hrs

(3) Aircraft Noise Standard:

Noise: ICAO /Annex 16, Vol. I. 3rd Ed. 1993, Chapter 10. Type Certificate Data Sheet for Noise TCDSN EASA.A.185, Issue 1, Dated 05 June 2009.

Document	EASA	Issue Date	Revision
Report No. 2006/182.	P2006T Aircraft Noise Certification Test Plan under ICAO Annex 16 and EASA CS36, Report No. 2006/182.	July 14, 2008	Rev. 2
Report No. 2006/186.	P2006T Aircraft Noise Certification Test results under ICAO Annex 16 and EASA CS36, Report No. 2006/186.	August 25, 2008	Rev. 0

(4) Certification Compliance Listing:

Tecnam Report 2006/200 – Project Compliance Record.

(5) Documentación técnica del fabricante (*Maintenance Manuals, Operating Manuals and Service Instructions*)



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Document	EASA	Issue Date	Revision
Aircraft Flight Manual	AFM Analog version, 1180 MOTW Doc. No. 2006/044	December 22, 2011	3 rd Ed. Rev. 0
Aircraft Flight Manual	AFM Digital version, 1180 MOTW Doc. No. 2006/044	December 22, 2011	3 rd Ed. Rev. 0
Aircraft Flight Manual	AFM Analog version, 1230 MOTW Doc. No. 2006/044	December 22, 2011	3 rd Ed. Rev. 0
Airplane Maintenance Manual	AMM Doc. No. 2006/045	April 27, 2011	2 nd Ed. Rev. 1
Aircraft Parts Catalogue	APC Doc. No. 2006/046	November, 2010	2 nd Ed. Rev. 1

5. REQUERIMIENTOS ADICIONALES DE LOS RAC PARTE 4^a
(ADDITIONAL COLOMBIAN REQUIREMENTS RAC PART 4TH)

A continuación se listan los requerimientos de aeronavegabilidad adicionales para la emisión de un certificado de aeronavegabilidad estándar, definidos en el capítulo II de la Parte Cuarta, "Requisitos generales de aeronavegabilidad" y Novena de los RAC. Para aviación comercial regular se debe agregar los requerimientos establecidos en los RAC parte Cuarta, Capítulo V.

Compliance with the requirements for the expedition of a Standard Airworthiness Certificate, to operate in General Aviation, is according with RAC's regulations inside its part IV, Chapters II, Rules. For commercial operators include the requirements of the Colombian regulations RAC's part IV, Chapter V:

Norma (Rule)	Descripción del requerimiento (Description)
4.2.2.3.	AERONAVES CIVILES MOTORIZADAS CON CERTIFICADO DE AERONAVEGABILIDAD ESTÁNDAR DE LA REPÚBLICA DE COLOMBIA (REQUISITOS DE INSTRUMENTOS Y EQUIPO) <i>CIVILIAN ENGINE POWERED AIRCRAFT WITH COLOMBIAN STANDARD AIRWORTHINESS CERTIFICATE (INSTRUMENT AND EQUIPMENT REQUIREMENTS)</i>
4.2.2.4.	TRANSMISOR LOCALIZADOR DE EMERGENCIA (ELT) Uno (fijo), transmisor de dos frecuencias (121.5 y 406.0 MHz). TSO – C126 <i>EMERGENCY LOCATOR TRANSMITER (ELT)</i> <i>One (fixed) 2 frequencies transmitter (121.5 and 406.0 MHz). TSO – C126</i>
4.2.2.5	LUCES DE AERONAVES <i>AIRCRAFT'S LIGHTS</i>
4.2.2.7	INSTRUMENTOS Y EQUIPOS INOPERATIVOS <i>INOPERATIVE EQUIPMENTS AND INSTRUMENTS</i>
4.2.2.8	USO DE TRANSPONDER ATC <i>ATC TRANSPONDER RIGHT USE</i>
4.2.2.10	SISTEMA DE ALERTA DE ALTITUD – Un sistema

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	<i>ALTITUDE ALERT SYSTEM – One system</i>
4.2.2.14	SEÑALAMIENTO DE LAS ZONAS DE PENETRACION DEL FUSELAJE
9.2.3 literal d) 4	PLACAS: IDIOMA ESPAÑOL O ESPAÑOL E INGLES PLACARDS: SPANISH OR ENGLISH AND SPANISH

APENDICE 1 - LISTA DE CHEQUEO DE AERONAVES
(APPENDIX 1 – AIRCRAFT CHECK LIST)

CERTIFICADO TIPO (Type Certificate):	EASA A.185. Issue 2, March 30, 2012.
AERONAVE (Aircraft):	Tecnam P2006T.
FABRICANTE (Manufacturer):	Construzioni Aeronautiche Tecnam S.r.l. Via Tasso 478 80127 Napoli, Italia
PLANTA MOTRIZ (Engine):	Two Rotax 912 S3, EASA No. TC No. E.121
OPERADOR NACIONAL (National Operator):	Aeroexpress
FUNCIONARIO(s) (Team):	JOSE ORLANDO DAZA CIFUENTES SAUL ANDRES GONZALEZ ORDOÑEZ
REGULACIONES R.A.C. (R.A.C. Regulation):	Numerales, 9.1 GENERALIDADES literal d) 9.2.3 CERTIFICADOS TIPO PARA PRODUCTOS AERONAUTICOS IMPORTADOS literal f) "Examen de los registros de diseño tipo y los documentos de certificación del Estado que certifico la aeronave. (literales c) y d)"

DOCUMENTACION	CUMPLIMIENTO (DOCUMENTOS REVISADOS)
1. DATOS GENERALES DEL CERTIFICADO TIPO (Type Certificate Data Sheets):	REVISION ACTUAL (Actual Issue): 2 FECHA DE REVISION (Issue Date): March 30, 2012. No. of Seats: 4 Crew: 1 pilot Fuel Capacity 52.8 US gals. (200 liters) (2 wing tanks) <ul style="list-style-type: none"> • Model P2006T Maximum Weight Takeoff : 2712 lb. (1230 kg.) Landing : 2600 lb. (1180 kg.)
2. Lista de Chequeo De Conformidad Código De Aeronavegabilidad (Compliance Check List airworthiness code):	Tecnam Report 2006/200 – Project Compliance Report 1 st Edition 19 th May, 2009 Rev. 0
3. Lista Maestra de Planos (Master Drawing List or Type Build Standard (TBS)):	Tecnam Report 2006/203 – Master Drawing List 3 rd Edition 19 th May, 2009 Rev. 1, 22 th May, 2009
4. NIVELES EQUIVALENTES DE SEGURIDAD (Elos, Special Conditions Exceptions, CRI's):	CRI D01 Ditching Emergency Exits (ESF). CRI D02 Main Door (ESF). CRI D03 Flight Protection of Flight Controls and other flight structure (ESF). CRI E01 Liquid cooling - coolant tank (ESF). CRI F01 Basic Analogic Cockpit Version (SC).
5. Plano en tres vistas del conjunto (impreso o copia) (views assembly drawing (Printed or blueprint)):	Ver APENDICE 2 - ADJUNTOS See APPENDIX 2 - ATTACHMENTS



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6. Planos de Configuración Interior (<i>Interior configuration Drawings (LOPA)</i>):	Interiors Component Installation 107400.
7. Manual De Operación De La Aeronave (<i>Aircraft Operacional Manuals</i>):	P AFM Analog version, 1180 MOTW Doc. No. 2006/044, December 22, 2011, 3rd Ed. Rev. 0.
8. Manual de Reparaciones Estructurales, Manual de Cableado (<i>Structural Repair Manual, Wiring Manual</i>):	Included in AMM Doc. No. 2006/045, April 27, 2011, 2nd Ed. Rev. 1.
9. MANUAL DE MANTENIMIENTO (<i>Maintenance Manual</i>):	AMM Doc. No. 2006/045, April 27, 2011, 2nd Ed. Rev. 1.
10. CATALOGO ILUSTRADO DE PARTES (<i>Illustrated Parts Catalogue</i>):	APC Doc. No. 2006/046, November, 2010, 2nd Ed. Rev. 1.
11. BOLETINES DE SERVICIO, (<i>Service Bulletins</i>):	<p>SB 013 - CS - Thermostatic water valve - ed1r1.pdf SB 014 - CS - Oil vent reposition - ed1r0.pdf SB 015 - CS - NLG steering assy inspection - ed1r0.pdf SB 020 - CS - Exhaust springs inspection - ed1r0.pdf SB 021 - CS - New fuel drain installation - ed1r0.pdf SB 022 - CS - Nose landing gear improvements - ed1r0.pdf SB 023 - CS - New exhaust springs installation - ed1r0.pdf SB 024 - CS - Landing gear retraction system - ed1r1.pdf SB 025 - CS - Stabilator trim mechanical actuator - ed1r0.pdf SB 026 - CS - Nose landing gear (NLG) retraction_extension hydraulic actuator - ed1r0.pdf SB 028 - CS - snap vent on side window - ed1r0.pdf SB 032 - CS - P2006T CIS operator Analogical equipment- ed1r0.pdf SB 033 - CS - P2006T CIS operator Digital equipment- ed1r0.pdf SB 036 - CS - Landing gear retraction_extension hydraulic actuator - ed1r0.pdf SB 038 - CS - P2006T NLG improvement package - ed1r0.pdf SB 039 - CS - P2006T New powerplant controls layout - ed1r0.pdf SB 043 - CS - P2006T Fuselage drainage points - ed1r0.pdf SB 047 - CS - P2006T Emergency accumulator inspection - ed1r1.pdf SB 048 - CS - P2006T LG emergency accumulator safety rings - ed1r1.pdf SB 051 - CS - P2006T AMM new revision - ed1r0.pdf SB 068 - CS - P2006T Emergency accumulator inspections - ed1r1.pdf SB 080 - CS - P2006T New LG emergency accumulator assy - ed1r1.pdf</p>
12. DIRECTIVAS DE AERONAVEGABILIDAD (<i>Airworthiness Directives</i>):	<p>EASA_AD_2010-0022 EASA_AD_2010-0129 EASA_AD_2010-0143 EASA_AD_2011-0042_1 EASA_AD_2011-0153R1_1 EASA_EAD_2010-0121-E EASA_EAD_2011-0059-E_1 EASA_EAD_2011-0063-E_1 EASA_EAD_2012-0043</p>
13. CERTIFICACION DE RUIDO (Noise Compliance):	<p>Noise: ICAO /Annex 16, Vol. I. 3rd Ed. 1993, Chapter 10. Type Certificate Data Sheet for Noise TCDSN EASA.A.185, Issue 1, Dated 05 June 2009. P2006T Aircraft Noise Certification Test Plan under ICAO Annex 16 and EASA CS36, Report No. 2006/182, July 14, 2008, Rev. 2 & P2006T Aircraft Noise Certification Test results under ICAO Annex 16 and EASA CS36, Report No. 2006/186, August 25, 2008, Rev. 0.</p>
14. OTROS (<i>Others RVSM</i>):	Not applicable.
15. BASES DE CERTIFICACIÓN (<i>Certification Bases</i>):	<p>EASA CS-23 EASA CS-36</p>



APENDICE 2 - ADJUNTOS (*APPENDIX 2 - ATTACHMENTS*)

Los siguientes documentos son adjuntos de este informe:
The following documents are attached to this report:

- Copia del Certificado Tipo de EASA, Numero A.185.
Copy of EASA Type Certificate Number A.185.
- Copia de la Hoja de Datos del Certificado Tipo para el motor de EASA Numero E.121 (Rotax 912 Series Engine).
Copy of EASA Engine Type Certificate, Number E.121 (Rotax 912 Series Engine).
- Otros (*Other*): Airplane Drawing Three Views.

Firmas (*Signatures*)

.....
Jose Orlando Daza Cifuentes
Inspector de Seguridad Aérea
Air Safety Inspector
(UAEAC - *Technical Group Engineer*)

.....
Andrés González Ordóñez
Jefe de Grupo Técnico (E) - UAEAC
(UAEAC - *Technical Group Chief*)

Dated: September 17th, 2012



European Aviation Safety Agency

TYPE CERTIFICATE

EASA.A.185

This Type Certificate is issued by EASA, acting in accordance with Regulation (EC) No. 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation and in accordance with Commission Regulation (EC) No. 1702/2003 to

Costruzioni Aeronautiche TECNAM S.r.l.

Via Tasso, 478
80127 Napoli
ITALIA

and certifies that the product type design listed below complies with the applicable Type Certification Basis and environmental protection requirements when operated within the conditions and limitations specified on the associated:

Type Certification Data Sheet Number: EASA TCDS.A.185

Model: P2006T

This Certificate and its associated Type Certificate Data Sheet, which is part thereof, shall remain valid unless otherwise surrendered or revoked.

For the European Aviation Safety Agency,

Date of issue: June 05, 2009

Alain Leroy
Head of Products Department



European Aviation Safety Agency

EASA

TYPE-CERTIFICATE DATA SHEET

Number : E.121
Issue : 03
Date : 26 February 2010
Type : BRP – Powertrain GmbH & Co KG
Rotax 912 series engines

Models

Rotax 912 A1
Rotax 912 A2
Rotax 912 A3
Rotax 912 A4
Rotax 912 F2
Rotax 912 F3
Rotax 912 F4
Rotax 912 S2
Rotax 912 S3
Rotax 912 S4

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION TYPE CERTIFICATE DATA SHEET P16BO	TCDS NUMBER: P16BO REVISION: 2 MT-PROPELLER COMPANY MODEL: MTV-21(-) March 2, 2007
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Propellers of models described herein confirming with this data sheet (which is part of this Type Certificate No. P16BO) and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certified aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated and maintained as prescribed by approved manufacturer's manual and other approved instructions.

TYPE CERTIFICATE HOLDER	MT-Propeller Entwicklung GmbH Airport Straubing-Wallmühle D-94348 Atting Germany
TYPE	Hydraulic constant speed with feathering and reversing feature (See Notes 3 & 4)
ENGINE SHAFT	See Note 1 of this TCDS
HUB MATERIAL	Aluminum alloy
BLADE MATERIAL	Laminated wood composite structure, epoxy-fiber glass cover, with leading edge and erosion protection
HUBS	See Note 1 of this TCDS
NUMBER OF BLADES	2 (two)
DESIGN SERIES	MTV-21-A MTV-21-D MTV-21-F

HUB TYPE MTV-21 See Note 1	BLADES See Notes 2 & 6	MAXIMUM CONTINUOUS		<TAKEOFF>		NOMINAL DIAMETER				BLADE TWIST *)		APPROXIMATE WEIGHT (**), (***)	
		HP(kW)	RPM	HP (kW)	RPM	Max		Min		Min	Max	lbs.	(kg)
						inch	(cm)	inch	(cm)				
(-)-03, (-)-04, (-)-05, (-)-06, (-)-07, (-)-08, (-)-09, (-)-12, (-)-16, (-)-23, (-)-28, (-)-31, (-)-49, (-)-51, (-)-106, (-)-112, (-)-122, (-)-125, (-)-129, (-)-312		91 (68)	3000	79 (59)	3400	63	160	57	145	5	50	22	(10)
		91 (68)	3000	86 (64)	3200	63	160	57	145	5	50	22	(10)
		99 (73.6)	2750	99 (73.6)	2750	69	175	57	145	5	50	22	(10)
		99 (73.6)	2265	114 (85)	2388	71	180	57	145	5	50	22	(10)

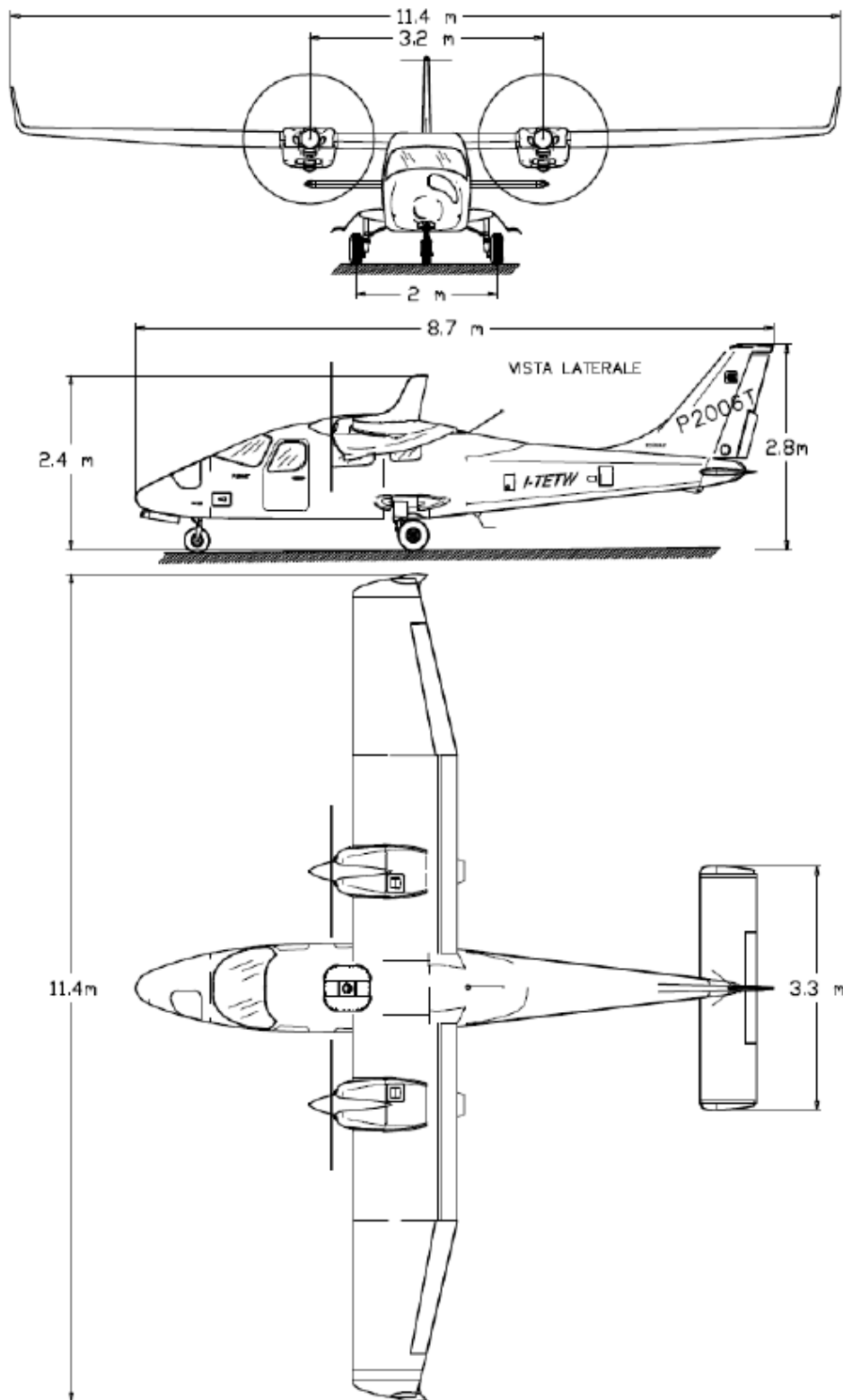
*) The limits of the blade twist are defined between .20 and 1.00 blade radius

**) Propellers with the option "Feather" are approx. 4.5 lbs. 2(kg) heavier

***) Propellers with the option "Reverse" are approx. 8.8 lbs. (4kg) heavier



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Airplane Drawing Three Views.