



# Reporte de Aceptación de Certificado Tipo



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## *Type Certificate Acceptance Report*

No. EASA A.006, Issue 06

TECNAM P2002-JF

TECNAM P2002-JR

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 P2002JF y P2002JR de TECNAM basados en el Certificado Tipo de la EASA número A.006 Emisión 06.

La aplicabilidad es para los modelos TECNAM P2002JF y P2002JR, que ya son elegibles 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 models P2002JF y P2002JR of TECNAM based on the EASA Type Certificate A.006 Issue 06.*

*Applicability is for TECNAM P2002JF y P2002JR models, 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.006, 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.006 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)**

Los modelos TECNAM P2002JF y P2002JR cumplen 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 P2002JF y P2002JR models 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 las aeronaves TECNAM modelos P2002JF y P2002JR fue solicitada por el fabricante el 16 de mayo de 2012 y fue aprobada el 03 de Diciembre de 2012, basada en el Certificado Tipo de la EASA No. A.006, e incluye los motores Rotax 912 S2 y Rotax 912 S3, aprobados mediante certificados tipo EASA TC No. E 121.

*The application for Colombian type certificate acceptance of the TECNAM P2002JF y P2002JR models, was received from the manufacturer, TECNAM, on 16<sup>st</sup> May 2012, Type Acceptance Certificate was approved on 03 December 2012, based on the EASA Type Certificate A.006, and includes the Rotax 912 S2 and 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.006 Emisión 06 de fecha 22 de Febrero de 2011 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.006 issue 06 dated February 22<sup>th</sup>, 2011 and the following documents:*

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

- EASA No. A.006, issue 06 dated February 22th, 2012.
- EASA Type-Certificate Data Sheet P2002JR and P2002JF Issue 1 dated May 2004
- Rotax 912 S2 and Rotax 912 S3 engine approved under EASA Type Certificate number E.121.
- Hoffman HO17GHM A 174 177C Propeller (LBA TC 32.110/1).
- Hoffmann HO-V352 F1/C170 FQ+8 Propeller (LBA TC 32.130/88)



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

(i) *Certification Basis:*

As defined in CRI A-01, latest Issue

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

CRI A-03 (SC VLAVFR Night)

(iii) *Airworthiness Requirements:*

EASA CS-VLA dated 14/11/2003 (Equivalent to JAR-VLA ed. 26/04/1990 including amendments VLA/91/1 dated October 22<sup>nd</sup>,1991 and VLA/92/1 dated January 1, 1992)

(3) Aircraft Noise Standard:

Document	EASA	Issue Date	Revision
Report	Noise Certification test, Doc. No. 2002/71 for P2002JF model	March 22, 2004	1 <sup>st</sup> Ed. Rev. 0
Report	Noise Certification test, Doc. No. 2002/137 for P2002JR model	July 28, 2006	1 <sup>st</sup> Ed. Rev. 0

(4) Certification Compliance Listing:

TECNAM Report 2002/81 – CS VLA Compliance Check List for P2002-JR, 1st Edition January 10<sup>th</sup>, 2007

TECNAM Report 2002/40 – CS VLA Compliance Check List for P2002-JF, 1st Edition March 29<sup>th</sup>, 2004; Revision 0

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

Document for P2002JF model	EASA	Issue Date	Revision
Aircraft Flight Manual	Flight Manual, Doc. No. 2002/28	2 <sup>nd</sup> edition, March 2 <sup>nd</sup> 2010	4 <sup>th</sup> revision, April 20 <sup>th</sup> 2011
Airplane Maintenance Manual	Maintenace Manual, Doc No. 2002/30	1 <sup>st</sup> Edition – 29 <sup>th</sup> March 2004	9 <sup>th</sup> Revision – 26 <sup>th</sup> January 2012
Aircraft Parts Catalogue	Illustrated Parts Catalogue. Doc No. 2002/31	3 <sup>st</sup> Edition,	rev. 2 – November 2009



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Document for P2002JR model	EASA	Issue Date	Revision
Aircraft Flight Manual	Flight Manual, Doc No. 2002/91	1 <sup>st</sup> edition, January 10 <sup>th</sup> 2007	3 <sup>rd</sup> revision, December 12 <sup>th</sup> 2010
Airplane Maintenance Manual	Maintenance Manual, Doc. No. 2002/93	1 <sup>st</sup> Edition 5 <sup>th</sup> January 2007	3 <sup>rd</sup> Revision 4 <sup>th</sup> December 2008
Aircraft Parts Catalogue	Illustrated Parts Catalogue. Doc No. 2002/97	1 <sup>st</sup> Edition	rev. 1, November, 2008

## 5. REQUERIMIENTOS ADICIONALES DE LOS RAC PARTE 4<sup>a</sup> (ADDITIONAL COLOMBIAN REQUIREMENTS RAC PART 4<sup>TH</sup>)

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.

Additional requirements for the issuance of a Standard Airworthiness Certificate for an aircraft that is going to operate in Colombia, in accordance with RAC's (Colombian Regulations), Part Fourth- Chapters II and in 9.2.3 Part Ninth, are as follows:

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 <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 <i>PLACARDS: SPANISH OR ENGLISH AND SPANISH</i>

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

CERTIFICADO TIPO (Type Certificate):	EASA A.006. Issue 6, February 22, 2011.
AERONAVES (Aircraft):	TECNAM P2002-JF and P2002-JR.
FABRICANTE (Manufacturer):	Construzioni Aeronautiche Tecnam S.r.l. Via Tasso 478 80127 Napoli, Italia
PLANTA MOTRIZ (Engines):	Rotax 912 S2, EASA No. TC No. E.121 for TECNAM P2002-JF Rotax 912 S3, EASA No. TC No. E.121 for TECNAM P2002-JR
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): 6 FECHA DE REVISION (Issue Date): February 22, 2011. No. of Seats: 2 Crew: 1 pilot Fuel Capacity: 100 liters Usable: 99 liters Maximum Weight Take-off 580 kg Zero Fuel 580 kg Landing 580 kg Aeroplanes with modification n. MOD2002/29, or equivalent Service Bulletin n. SB010-CS, installed and Model P2002-JR Take-off 600 kg Zero Fuel 600 kg Landing 600 kg
2. Lista de Chequeo De Conformidad Código De Aeronavegabilidad (Compliance Check List airworthiness code):	P2002-JF Report n° 2002/40 CS VLA Compliance Check List 1st Edition March 29th, 2004; Revision 0  P2002-JR Report n° 2002/81 MOD 2002/11 "P2002-JR" CS VLA Compliance Check List 1st Edition January 10th, 2007
3. Lista Maestra de Planos (Master Drawing List or Type Build Standard (TBS)):	Report n° 2002/38 P2002 Master Drawing List 1st Edition February 11th 2002; Revision 0



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4. NIVELES EQUIVALENTES DE SEGURIDAD (Elos, <i>Special Conditions Exceptions, CRI's</i> ):	CRI A-03 (SC VLAVFR Night)
5. Plano en tres vistas del conjunto (impreso o copia) ( <i>views assembly drawing (Printed or blueprint)</i> ):	Ver APENDICE 2 - ADJUNTOS See APPENDIX 2 - ATTACHMENTS
6. Planos de Configuración Interior ( <i>Interior configuration Drawings (LOPA)</i> ):	Flight Manual Doc. N° 2002/28 Revision 4th December 2011 - SECTION 6 WEIGHT & BALANCE
7. Manual De Operación De La Aeronave ( <i>Aircraft Operacional Manuals</i> ):	Flight Manual Doc. N° 2002/28 Revision 4th December 2011
8. Manual de Reparaciones Estructurales, Manual de Cableado ( <i>Structural Repair Manual, Wiring Manual</i> ):	P2002-JF: Maintenance Manual, Doc. No. 2002/30, 1st Edition – 29th March 2004, 9th Revision –26th January 2012.  P2002-JR: Maintenance Manual, Doc. No. 2002/93, 1st Edition 5th January 2007, 3rd Revision 4th December 2008
9. MANUAL DE MANTENIMIENTO ( <i>Maintenance Manual</i> ):	P2002-JF: Maintenance Manual, Doc. No. 2002/30, 1st Edition – 29th March 2004, 9th Revision –26th January 2012.  P2002-JR: Maintenance Manual, Doc. No. 2002/93, 1st Edition 5th January 2007, 3rd Revision 4th December 2008
10. CATALOGO ILUSTRADO DE PARTES ( <i>Illustrated Parts Catalogue</i> ):	P2002-JF: Illustrated Parts Catalogue, Doc No. 2002/31, 3st Edition, rev. 2 – November 2009.  P2002-JR: Illustrated Parts Catalogue, Doc No. 2002/97, 1st Edition rev. 1, November, 2008.





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<p>11. BOLETINES DE SERVICIO, ( <i>Service Bulletins</i>):</p>	<ul style="list-style-type: none"> <li> <a href="#">SB 002 - CS - Additional trim panel installation - ENG - ed1r0.pdf</a></li> <li> <a href="#">SB 004 - CS - Gear bolts substitution - ed1r1.pdf</a></li> <li> <a href="#">SB 005 - CS Hose brake system- ENG - ed1r0.pdf</a></li> <li> <a href="#">SB 007 - CS - ELT Installation - ENG - ed1r0.pdf</a></li> <li> <a href="#">SB 009 - CS - P2002JR Landing Gear Hoses Inspection - ENG - ed1r0.pdf</a></li> <li> <a href="#">SB 010 - CS - MTOW increase to 600Kg for P2002-JF aircraft - ed1r0.pdf</a></li> <li> <a href="#">SB 012 - CS - Thermostatic oil valve - ed1r1.pdf</a></li> <li> <a href="#">SB 018 - CS - Rudder pedal inspection - ed1r0.pdf</a></li> <li> <a href="#">SB 031 - CS - P2002 series wing caps inspection - ed1r0.pdf</a></li> <li> <a href="#">SB 034 - CS - P2002 Series CIS operator - ed1r0.pdf</a></li> <li> <a href="#">SB 049 - CS - P2002 JR Emergency accumulator inspection - ed1r0.pdf</a></li> <li> <a href="#">SB 056 - CS - P2002JR fuel hoses inspection - ed1r0.pdf</a></li> <li> <a href="#">SB 059 - CS - P2002JF AMM new revision - ed1r0.pdf</a></li> <li> <a href="#">SB 061 - CS - P2002JF AMM new revision - ed1r0.pdf</a></li> <li> <a href="#">SB 063 - CS - P92JS &amp; P2002JF Carburetors - ed1r1.pdf</a></li> <li> <a href="#">SB 069 - CS - P2002JR Emergency accumulator safety rings - ed1r0.pdf</a></li> <li> <a href="#">SB 078 - CS - P2002 New GA35 GPS antenna support - ed1r0.pdf</a></li> <li> <a href="#">SB 079 - CS - New GMU 44 magnetometer attachment - ed1r0.pdf</a></li> <li> <a href="#">SB 083 - CS - P2002JF AMM new revision - ed1r0.pdf</a></li> <li> <a href="#">SB 089 - CS - New overflow bottle - ed1r0.pdf</a></li> <li> <a href="#">SB 091 - CS - P2002 LED landing light Installation- ed1r0.pdf</a></li> </ul>
<p>12. DIRECTIVAS DE AERONAVEGABILIDAD ( <i>Airworthiness Directives</i>):</p>	<ul style="list-style-type: none"> <li> <a href="#">EASA_AD_2006-0234.pdf</a></li> <li> <a href="#">EASA_AD_2009-0229.pdf</a></li> <li> <a href="#">EASA_AD_2011-0106_1.pdf</a></li> <li> <a href="#">EASA_AD_IT-2005-167.pdf</a></li> <li> <a href="#">EASA_EAD_2011-0061-E_1.pdf</a></li> <li> <a href="#">EASA_EAD_IT-2004-394.pdf</a></li> </ul>
<p>13. CERTIFICACION DE RUIDO (Noise Compliance):</p>	<p>P2002-JF: Noise Certification Test ICAO Annex 16, EASA CS-36, Report n° 2002/71, 1st Edition 22nd March 2004; Revision 0.</p> <p>P2002-JR: Noise Certification Test ICAO Annex 16, EASA CS-36, Report n° 2002/137, 1st Edition 28th July 2006;</p> <p>FLIGHT MANUAL P2002-JF: Noise Certification Basis: EASA CS-36 1st edition dated 17<sup>th</sup> October 2003, with reference to ICAO/Annex 16 3<sup>rd</sup> edition dated 1993, Vol.1 Chapter 10.</p> <p>SECTION 5 Performances, NOISE DATA</p>
<p>14. OTROS ( <i>Others RVSM</i>):</p>	<p>Not applicable.</p>
<p>15. BASES DE CERTIFICACIÓN ( <i>Certification Bases</i> ) :</p>	<p>The certification basis of the Tecnam Model P2002-JF is EASA CS-VLA dated 14/11/2003. (Equivalent to JAR-VLA ed. 26/04/1990 including amendments VLA/91/1 dated October 22nd, 1991 and VLA/92/1 dated January 1, 1992.)</p> <p>Noise Certification Basis: EASA CS-36 1st edition dated 17<sup>th</sup> October 2003, with reference to ICAO/Annex 16 3<sup>rd</sup> edition dated 1993, Vol.1 Chapter 10.</p>



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

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

- Copia de la Hoja de Datos del Certificado Tipo de EASA, Numero A.006.  
*Copy of EASA Type Certificate Data Sheet, Number A.006.*
- 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: December 03<sup>th</sup>, 2012



European Aviation Safety Agency

## TYPE-CERTIFICATE

EASA.A.006

This certificate, established in accordance with Regulations (EC) No 1592/2002 and (EC) No 1702/2003 and issued to

# Costruzioni Aeronautiche TECNAM S.r.l.

Via Tasso, 478  
80127 Napoli  
Italia

certify that the aircraft type design listed below comply with the applicable Type Certification Basis and environmental protection requirements when operated within the conditions and limitations specified on the associated Type Certificate Data Sheet N°. A.006

Model	Date of issue
<b>Tecnam P2002-JF</b>	<b>27 May, 2004</b>
<b>Tecnam P2002-JR</b>	<b>02 February, 2007</b>

This certificate and its associated type-certificate data sheet, which is a part thereof, shall remain valid unless otherwise surrendered or revoked.

For the European Aviation Safety Agency,

  
Roger Hardy  
Certification Manager  
General Aviation



## European Aviation Safety Agency

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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

**Airplane Drawing Three Views.**

