AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

TYPE CERTIFICATE DATA SHEET Nº EH-9208-01

Type Certificate Holder:

DOWTY ROTOL PROPELLER
Anson Business Park
Cheltenham Road East
Gloucester, GL2 9QH
ENGLAND

EH-9208-01
Sheet 01

DOWTY ROTOL

R.339
R.341

April 14, 2010

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No.9208, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Brazilian Aeronautical Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other instructions.

TYPE	Constant speed, hydraulic (see Notes 3 and 4)
ENGINE SHAFT	AS 880
HUB MATERIAL	Aluminum Alloy
BLADE MATERIAL	Composite Glass and carbon reinforced plastic
NUMBER OF BLADES	Four

HUB ELIGIBLE R.339, R.341

Blade Elegible (See Note 2)	Maximum Continuous		Take Off		Nominal Diameter		Approx. Max. Wt. Complete (for reference only)	
	hp	rpm	hp	rpm	cm	(in)	kg	(lb)
660712236	1000	1540	1000	1540	270	(106)	92.1	(203.0)
660712239	1000	1540	1000	1540	270	(106)	92.1	(203.0)

CERTIFICATION BASIS

RBAC 21.29 and RBAC 35, which endorses the 14 CFR Part 35 effective February 1, 1965, with amendments through 35-4 and Civil Aviation Authority Special Requirements reference 9/216/11 dated June 5, 1981.

Civil Aviation Authority (UKCAA) originally type certificated propellers (c) R.339 and (c) R.341 under its Type Certificate Number 102. The FAA validated this product under U.S. Type Certificate Number P8NE.

Effective September 28, 2003, the European Aviation Safety Agency (EASA) began oversight of this product on behalf of the United Kingdom of Great Britain and Northern Ireland.

TYPE CERTIFICATION

	Application	Issued TC
R.339, R.341	04/10/1991	01/10/1992

PRODUCTION BASIS Not applicable

IMPORT REQUIREMENTS

Each propeller imported separately and/or spare parts must be accompanied by an Airworthiness Certificate for Export and/or an Airworthiness Approval Tag, respectively, issued by EASA, attesting that the particular propeller and/or parts were submitted to the governmental quality control before delivery and are in conformity with the ANAC approved type design.

NOTES

NOTE 1 MODEL DESIGNATION: (c) R 339 / 4 - 123 - F / 8 where:

(c) Indicates civil (non-military)

R Manufacturer (ROTOL)

339 Prefix number denotes non-interchangeable design standard

4 Number of blades

123 Blade Shank Size No. 123

F Engine Flank Mounted

8 Suffix number denotes interchangeable design standard

The prefix number indicates the design series, and propellers with different prefix numbers are not generally interchangeable. Certain models may be interchanged as complete aircraft sets on the advice of the propeller manufacturer only.

The suffix number is used to record minor alterations which do not affect interchangeability.

NOTE 2 BLADE MODEL DESIGNATION

Dowty Rotol propeller blades are identified by a serialized part number only which does not constitute a model designation. A dash number following the part number indicates the type of finish.

NOTE 3 PITCH CONTROL. Eligible with Garrett governor type 3105648-3.

NOTE 4 FEATHERING. Model incorporates feathering and unfeathering features by means of counterweights and Motor/Pump Unit. Eligible with Weldon Tool Company type 4049-A.

REVERSING. Model incorporates reversing feature.

NOTE 5 ROTATION

(c)R.339: Rotation is clockwise, viewed from the rear of the propeller (right hand tractor).

(c)R.341: Rotation is anti-clockwise, viewed from the rear of the propeller (left hand tractor).

NOTE 6 INTERCHANGEABLE BLADES. Only blades of the same part numbers are interchangeable and may be incorporated in the same propeller.

NOTE 7 ACCESSORIES

(a) Propeller Deicing. Eligible with blade deicing to Dowty Rotol Drawing 660000908 for R.339 and 660000909 for (c)R.341.

(b) Spinners. Eligible with spinner (c) SB 16/4/1 and backplate 664005226 or (c) SB21/4/1 with bulkhead 664005227 of Dowty Rotol design.

NOTE 8 Not applicable.

NOTE 9 APPROVED INSTALLATIONS. Propellers listed in this data sheet are approved only for use on the engine-aircraft combinations shown below:

Propeller Model	Aircraft Model	Engine Model	ANAC TCDS	
			Aircraft	Engine
(C)R.339/4-123-F/8	Piper PA 42-1000 (Cheyenne IV)	Garrett-AiResearch TPE-331-14A	EA 9206	EM 9207
(C)R.341/4-123-F/9	Piper PA 42-1000 (Cheyenne IV)	Garrett-AiResearch TPE-331-14B	EA 9206	EM 9207

NOTE 10 The word "eligible" as used herein does not signify approval as part of this type certificate. "Eligible accessories and pitch controls must be approved as part of the aircraft type certificate upon compliance with the applicable aircraft airworthiness requirements. "

NOTE 11 LIMITATIONS – Types (c)R.339/4-123-F/8 and (c)R.341/4-123-F/9.

All maintenance ground running at engine torques between 30 percent and 50 percent of the maximum takeoff rating must be accomplished at engine speed of 100 percent and with the aircraft headed into the wind ± 30°.

NOTE 12 SERVICE INFORMATION. Each of the documents listed below must state that it is approved by the European Aviation Safety Agency (EASA) or – for approvals made before September 28, 2003 – by the UKCAA. Any such documents are accepted by the ANAC and are considered ANAC approved.

- Service bulletins,
- Structural repair manuals,
- Vendor manuals,
- Aircraft flight manuals, and
- Overhaul and maintenance manuals.

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(Manager, Aeronautical Product Certification)