

**MINISTÉRIO DA AERONÁUTICA
DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO
CENTRO TÉCNICO AEROESPACIAL**

TYPE CERTIFICATE DATA SHEET Nº EH-9301

Type Certificate Holder:

DOWTY AEROSPACE PROPELLERS
Cheltenham Road
Gloucester, GL2 9QH
ENGLAND

EH-9301

Sheet 01

DOWTY ROTOL

(C)R.352

December 98

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 9301, 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 FLANGE	Special flange with 16 bolts and 2 dowels (all at 6.75 inches P.C.D.)
HUB MATERIAL	Aluminum alloy
BLADE MATERIAL	Composite glass and carbon reinforced plastic
NUMBER OF BLADES	Six

DESIGN SERIES

(c)R.352/6-123-F/1, (c)R.352/6-123-F/2

Blade Eligible (See Note 2)	Max. Continuous Power		Takeoff power		Diameter Limits		Approx. Max. Weight Compl.	
	hp	rpm	hp	rpm	m	in	kg	lb

Propeller Models (c)R.352/6-123-F/1 and (c)R.352/6-123-F/2

2 250	1 200	2 500	1 200	3.66	144	171.91	379
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CERTIFICATION BASIS

RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAR 35 effective September 11, 1980 with amendments 35-1 through 35-5.

TYPE CERTIFICATION

	Application	Issued TC
(c)R.352	18 May 1992	03 February 1993

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 CAA, attesting that the particular propeller and/or parts were submitted to the governmental quality control before delivery and are in conformity with the CTA approved type design.

NOTES

NOTE 1 Propeller Model Designation:

The model designation of a complete Dowty Aerospace Propeller assembly consists of the basic model designation with prefix and suffix letters and numbers as shown below:

(c) R. 352 / 6 - 123 - F / 1

(c)	Civil (Non-military)
R.	Rotol (manufacturer)
352	Prefix number notes non-interchangeable design standard.
6	Number of blades - 6
-123	Blade shank size No. 123
-F	Engine flange mounted
1	Suffix number denotes interchangeable design standards.
6	Basic model designation

(c) R. 352 /	Prefix
6-123	Basic model designation
1	Suffix

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.

Propeller build standard for the (c)R352/6-123-F/1 and (c)R352/6-123-F/2 is specified in DIS No. 66071500C and Design Specification 84.DS.0431. General Arrangement and Installation Drawings for the F/1 are 660715101 and 660715001; and for the F/2 are 660715104 and 660715004 respectively.

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.

Blade Assembly Drawings applicable to both/1 and /2 propellers 660715241, 660715246, 660720248, 660720249, 660720250, 660715251, 660715252, 660715253, 660715254.

NOTE 3 Pitch Control:

Propeller pitch control unit Type Number 663007003, 663007004 and 66307005.

NOTE 4 (a) Feathering:

Model incorporates feathering and unfeathering features by means of counterweights and motor/pump unit. Type Number (Installation Drawing Number) 638005003.

(b) Reversing:

Model incorporates reversing feature.

NOTE 5 Right-hand Model:

These propellers are designed and manufactured for the right-hand tractor only.

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 De-icing: De-icing Brush Block Bracket Assembly Numbers 660715232, 660715291, 697050001.

(b) Spinner: Spinner Type Number SB 20/6. Dowty Drawing Number 664006001 for F/1 and 664006002 for F/2.

(a) Propeller Electronic Control Unit: Approved with Electronic Control Unit Type Number 666000013, 666000128, 666000143.

(d) Propeller pitch control unit Type Number 663007003, 663007004 and 663007005.

NOTE 8 Not Applicable:

NOTE 9 Aircraft installations must be approved as part of the aircraft type certification and demonstrate compliance with the applicable airworthiness requirements.

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