

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION TYPE CERTIFICATE DATA SHEET P16NE	TCDS NUMBER P16NE Revision 4 DOWTY PROPELLERS MODEL/S: (c) R352/6, (c) R410/6 February 28, 2007
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Propellers of models described herein conforming with this data sheet (which is part of Type Certificate No. P16NE) and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certificated 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 the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder: Dowty Propellers
 Anson Business Park
 Cheltenham Road East
 Gloucester, GL2 29N, England

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 re-inforced plastic

Number of Blades: 6

Design Series: (c) R352/6-123-F/1, (c) R352/6-123-F/2, (c) R410/6-123-F/35, (c) R410/6-123-F/36

Blades (See Note 2)	Maximum Continuous		<Takeoff>		Nominal Diameter	Approx. Max. Wt. Complete (for reference only)
	HP	RPM	HP	RPM		
660715001	2,750	1,200	2,750	1,200	144 inches	379 lbs.

Certification Basis: FAR 21.29 and FAR 35 effective September 11, 1980 with amendments through 35-5. Equivalent to BCAR Section A Issue 28 Chapter A3.2. JAR-P Change 6, together with the installation requirements of JAR-25 paragraphs 33.901(c), 905, 907, 933(c), 937 and 1337(e), also, Special Requirements detailed in CAA letter of 9/216/PR7/11 dated 5 June 1981.

Civil Aviation Authority (UKCAA) originally type certificated this propeller under its Type Certificate Number 105 for Model (c) R352/6 and Type Certificate Number 110 for Model (c) R410/6. The FAA validated this product under U.S. Type Certificate Number P16NE. 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.

TC (Import No.s): UKCAA Type Certificate Number 105 for Model (c) R352/6
 UKCAA Type Certificate Number 110 Model (c) R410/6

T.C. Application Date: January 23, 1985

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T.C. Issued

December 9, 1988

Import Requirements:

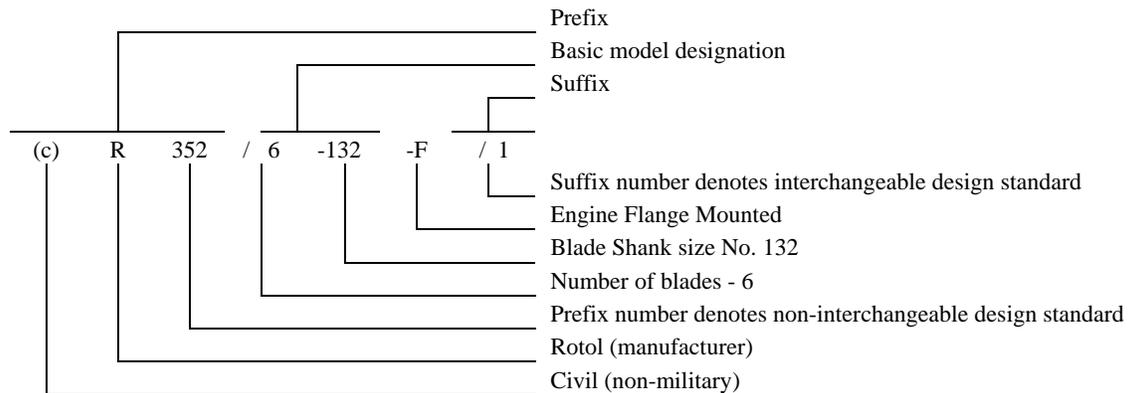
To be considered eligible for installation on U.S. registered aircraft, each propeller to be exported to the United States shall be accompanied by a Certificate of Airworthiness for export endorsed by the UKCAA on behalf of the European Community which contains the following language:

(1) This propeller conforms to its United States type design (TC No. P16NE) and is in a condition for safe operation.

(2) This propeller has been subjected by the manufacturer to a final operational check and is in a proper state of airworthiness. Reference FAR Section 21.500 which provides for the airworthiness acceptance of aircraft engines or propellers manufactured outside the U.S. for which a U.S. type certificate has been issued. Additional guidance is contained in FAA Advisory Circular 21-23, Airworthiness Certification of Civil Aircraft, Engines, Propellers and Related Products, Imported into the United States.

NOTES

NOTE 1. Propeller Model Designation: The model designation of a complete Dowty Aerospace Propellers, propeller assembly consists of the basic model designation with prefix and suffix letters and numbers as shown below:



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. The build standard for the propeller and its Control Equipment for the (c)R410/6-123-F/35 and F/36 is listed on Drawing 660000083 Issue 1.

- NOTE 2: Blade Model Designation Dowty Aerospace Propellers 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 right hand tractor only.
- NOTE 6: Interchangeable Blades Only blades listed in the propeller CMM are interchangeable in pairs diametrically opposite 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) Spinners - Spinner Type Number SB 20/6. Dowty Drawing Number 664006001 for F/1 and 664006002 for F/2.
(c) Propeller Electronic Control Units - 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: Approved Installations Propeller listed in this data sheet are approved from vibration standpoint only for use on the engine-aircraft combination shown below:

Propeller Model	Aircraft Model	Engine Model	FAA Specification or TC Data Sheet	
			Aircraft	Engine
(c)R 352/6-123-F/1, F/2	Fokker F-27	Pratt Whitney 125B	A817	E20NE
(c)R410/6-123-F/35, 36	MK050	127B		
(c)R410/6-123-F/35, F/36	Max. T/O Weight: 47,500 lbs.			
	Fokker F-27 MK0602 and F-27 MK0604	Pratt & Whitney 127B	A817	E20NE
	Max. T/O Weight 50,596 lbs.			

- NOTE 10: Aircraft installations must be approved as part of the aircraft type certificate and demonstrate compliance with the applicable aircraft airworthiness requirements.

NOTE 11: 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 FAA and are considered FAA approved.

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

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