

U.S. DEPARTMENT OF TRANSPORTATION  FEDERAL AVIATION ADMINISTRATION  TYPE CERTIFICATE DATA SHEET P-890	TCDS NUMBER P- 890 REVISION: 9  DOWTY PROPELLERS MODEL/S: (c) R-/4-20-4/  February 27, 2007
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Propellers of models described herein conforming with this data sheet (which is a part of type certificate no. 890) and other approved data on file with the Federal Aviation Agency meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Civil Air Regulations/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 9QH, England

Type    Constant speed; hydraulic (see NOTES 3 and 4)

Engine shaft                                      No. 4 S.B.A.C.

Hub material                                        Steel

Blade material                                      Aluminum alloy

No. of blades                                        4

Design series eligible                            (c) R130, R141, R147, R148, R179 (see NOTES 1 and 9)

Blades Eligible (See NOTES 2 & 9)	Maximum Continuous		Takeoff		Nominal Diameter	Approx Maximum Weight Complete (For reference only)
	HP	RPM	HP	RPM		
RA25840	1120	1470	1400	1550	10' - 0"	295 lbs.
RA25842 --	{ 1120	1470	1400	1550	10' - 0"	307 lbs.
	{ 1365	1300	or 1600	1350		
RA25910	1585	1350	1870	1395	10' - 0"	365 lbs.

Certification basis                              CAR Part 10, British Civil Airworthiness Requirements equivalent to CAR Part 14.

    The FAA validated this product under U.S. Type Certificate Number P-890. 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:                                    None

TC Application Date:                            May 23, 1955

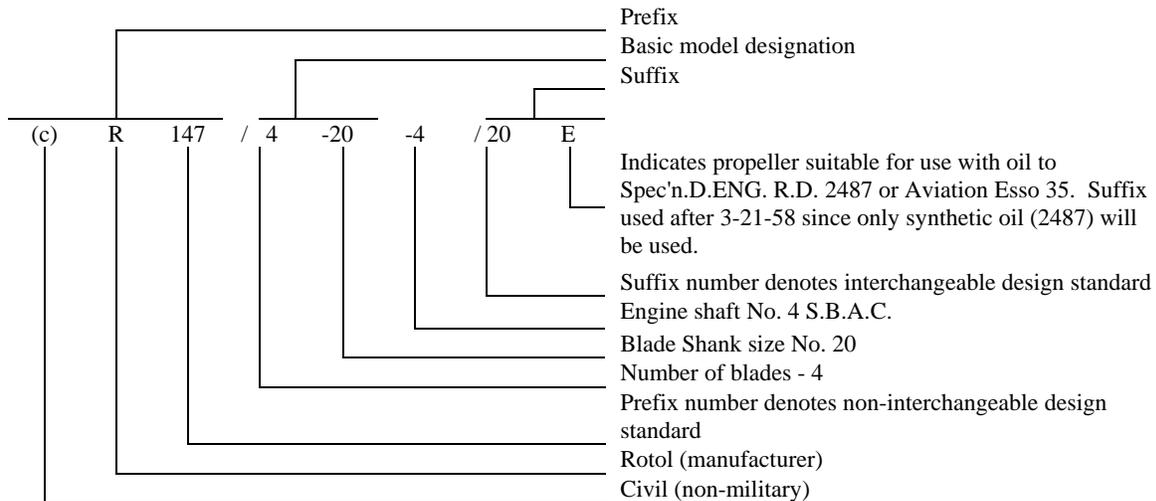
TC Issued :                                        June 13, 1955

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:

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- (1) This propeller conforms to its United States type design (TC No. P-890) 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.

NOTE 1. **Propeller Model Designation.** The model designation of a complete Rotol propeller assembly (which includes all rotating parts and the brush gear group but excludes the spinner front shell 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.

- NOTE 2. **Blade Model Designation.** 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 only with Rotol constant speed control and synchronizing equipment.
- NOTE 4. (a) **Feathering.** Eligible only with Rotol feathering unit and approved switches installed in accordance with propeller manufacturer's instructions.  
 (b) **Reversing.** Not applicable.
- NOTE 5. **Left-Hand Model.** These propellers are designed and manufactured for left-hand tractor only.
- NOTE 6. Not applicable.
- NOTE 7. **Accessories.**  
 (a) **Propeller deicing.** Eligible with only Rotol electric deicing equipment installed in accordance with the propeller manufacturer's instructions.  
 (b) **Spinners.** Eligible only with spinners designed and supplied by Rotol.
- NOTE 8. Not applicable.

NOTE 9. Approved Installations. Propellers listed in this specification are approved only for use in the engine-aircraft combinations shown below:

Propeller Model	Aircraft Model	Engine Model	CAA Specifications	
			Aircraft	Engine
(c)R130/4-20-4/12 E	Vickers Viscount 745D	Rolls Royce Dart 510	A-814	E-283
(c)R179/4-20-4/33	Vickers Viscount 810	Rolls Royce Dart 525, 525F	A-814	E-297
(c)R148/4-20-4/21E	Vickers Viscount 744	Rolls Royce Dart 506	A-814	E-283

NOTE 10. The "word" eligible as used herein does not signify approval. In approval, compliance with the applicable aircraft airworthiness requirement is necessary.

NOTE 11. Propeller component life limits are as quoted in Dowty Rotol Service Bulletin No. 61-54.

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 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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