

| | |
|---|---|
| U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION TYPE CERTIFICATE DATA SHEET P61GL | TCDS NUMBER P61GL REVISION: 5 DOWTY PROPELLERS MODEL/S: (c) R321, (c) R324, (c) R333, (c) R334 February 27, 2007 |
|---|---|

Propellers of models described herein conforming with this data sheet (which is part of Type Certificate No. P61GL) and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certificated aircraft in accordance with the pertinent 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 9QH, England

Type Constant speed; hydraulic (see Notes 3 and 4)
 Engine Flange AS 880
 Hub Material Aluminum Alloy
 Blade Material Aluminum Alloy
 Number of Blades 4
 Design Series Eligible (c)R.321, (c)R.324, (c)R.333, (c)R.334

| Blades Eligible (See Note 2) | Maximum Continuous | | Takeoff | | Nominal Diameter | Approx. Max. Wt. Complete (for reference only) |
|---------------------------------|--------------------|------|---------|------|------------------|---|
| | HP | RPM | HP | RPM | | |
| 660709317 | 1100 | 1591 | 1100 | 1591 | 106 ins. | 187 lbs. |
| 660709314 | 1100 | 1591 | 1100 | 1591 | 110 ins. | 189 lbs. |

Certification Basis FAR 21.29 and British Civil Airworthiness Requirements Section C5 equivalent to FAR 35 effective February 1, 1965, through amendment 5 effective October 14, 1980.

Civil Aviation Authority (UKCAA) originally certificated propellers (c)R321 and (c) R324 under letter dated April 1981, propeller; (c) R333 under its Type Certificate Number 108; and propeller (c)R334 under its Type Certificate Number 115. The FAA validated this product under U.S. Type Certificate Number P61GL. 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: UKCAA Type Certificate No. 108 for (c) R333
 UKCAA Type Certificate No. 115 for (c) R334

TC Application Date: November 5, 1980

TC Issued : April 13, 1981,
 Amended May 28, 1982, to add model (c)R.333,
 Amended November 19, 1982, to add model (c)R.334

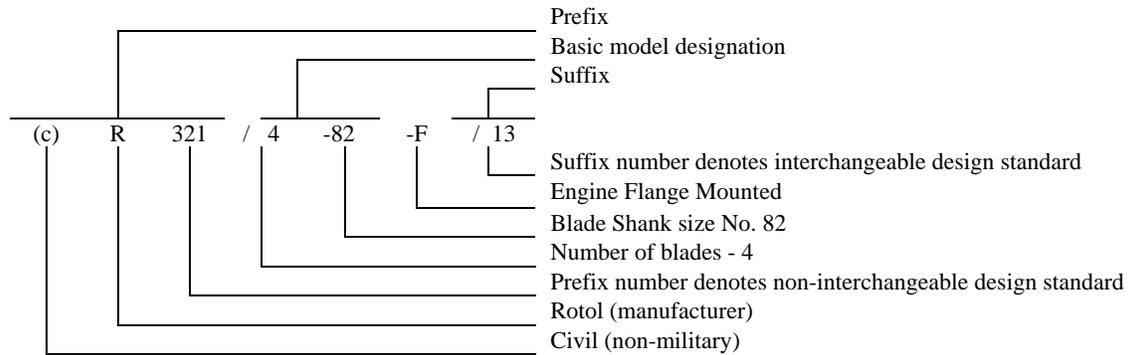
Import requirements: To be considered eligible for installation on U.S. registered aircraft, each propeller to be exported to the United States shall be accompanied by a Certificate of Airworthiness for export endorsed by the UKCAA on behalf of the European Community which contains the following language:

- (1) This propeller conforms to its United States type design (TC No. P61GL) and is in a condition for safe operation.

| | | | |
|----------|---|---|---|
| Page No. | 1 | 2 | 3 |
| Rev. No. | 5 | 5 | 5 |

- (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 Dowty Rotol 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.

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 Woodward Governor type 210749 (AiResearch P/N 897410-2 or -4).

Note 4. (a) Feathering. Model incorporates feathering and unfeathering features by means of counterweights and Motor/Pump Unit.

(b) Reversing. Model incorporates reversing feature.

Note 5. Left Hand Model. These propellers are designed and manufactured for left 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 Deicing. Eligible with blade deicing to Dowty Rotol Drawing 660000902.

(b) Spinners. Eligible with spinner (c) SB 10/4/1 and backplate 664005201 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:

| <u>Propeller Model</u> | <u>Aircraft Model</u> | <u>Engine Model</u> | <u>FAA Specification or TC Data Sheet</u> | |
|------------------------|--------------------------------|--|---|---------------|
| | | | <u>Aircraft</u> | <u>Engine</u> |
| (c)R.321/4-82-F/8 | Fairchild Swearingen SA 227-AC | Garrett-AiResearch TPE-331-11U-601G TPE-331-11U-611G | A8SW | E4WE |
| (c)R.321/4-82-F/8 | Fairchild Swearingen SA 227-AT | Garrett-AiResearch TPE-331-11U-601G TPE-331-11U-611G | A5SW | |
| (c)R.324/4-82-F/9 | Fairchild Swearingen SA-227-TT | Garrett-AiResearch TPE-331-10U-503G TPE-331-10U-513G | | |
| (c)R.333/4-82-F/12 | Jetstream 3100 | Garrett-AiResearch TPE-331-10UF-501H, 511H, 512H, 513H TPE-331-10UR-513H TPE-331-10UG-513H TPE-331-10UGR-513H | | |
| (c)R.334/4-82-F/13 | CASA.212 | Garrett-AiResearch TPE-331-10-501C | | |

Limitations:

Propellers (c)R.321/4-82-F/8 and (c)R.324/4-82-F/9.

The engine minimum ground idle speed must not be less than 70 (seventy) percent of the rated takeoff speed.

Propeller (c) R.333/R-82-F/12.

The engine minimum ground idle speed must not be less than 68 (sixty-eight) percent of the rated takeoff speed.

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. 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.

....END....