

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

TYPE CERTIFICATE DATA SHEET N° EH-2005T09

Type Certificate Holder:

HAMILTON SUDSTRAND CORPORATION
One Hamilton Road
Windsor Locks, CT 06096-1010
USA

EH-2005T09

Sheet 01

**HAMILTON
SUNDSTRAND**

568F-1

April 2005

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 2005T09, 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 171.45 mm (6.75 in) bolt circle.

HUB MATERIAL Steel.

BLADE MATERIAL Kevlar Shell / graphite spar

NUMBER OF BLADES 6 (six)

HUB ELIGIBLE 568F (Refer to Note 12 for the associated model parts list unique to each aircraft application).

Blade Eligible	Max.Continuous Power	Takeoff power	Diameter Limits	Approx. Max. Weight Compl.
	hp (rpm)	hp (rpm)	m (ft)	kg (lb)
R815505R2	2 920 (1 200)	3 000 (1 200)	3.96 (13)	163.7 (360.9)
R815505R3	2 920 (1 200)	3 000 (1 200)	3.96 (13)	163.7 (360.9)
R815505R4	2 920 (1 200)	3 000 (1 200)	3.96 (13)	163.7 (360.9)
R815505S2	2 920 (1 200)	3 000 (1 200)	3.96 (13)	163.7 (360.9)
R815505S3	2 920 (1 200)	3 000 (1 200)	3.96 (13)	163.7 (360.9)
R815505S4	2 920 (1 200)	3 000 (1 200)	3.96 (13)	163.7 (360.9)
R815505-2	2 920 (1 200)	3 000 (1 200)	3.96 (13)	163.7 (360.9)
R815505-3	2 920 (1 200)	3 000 (1 200)	3.96 (13)	163.7 (360.9)
R815505-4	2 920 (1 200)	3 000 (1 200)	3.96 (13)	163.7 (360.9)
R815505-5	2 920 (1 200)	3 000 (1 200)	3.96 (13)	163.7 (360.9)

CERTIFICATION BASIS Brazilian Type Certificate Nr.2005T09 based on the RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAR 35 Amendment 6 dated 15 August 1989, and Special Conditions SC-95-02-NE, (Docket No. 94-ANE-60), dated May 1995, and SC-95-03-NE , (Docket No. 94-ANE-61), dated May 1995.

TYPE CERTIFICATION	<u>Model</u>	<u>Application</u>	<u>Issued TC</u>
	568F1	31 March 2005	25 April 2005

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 FAA, 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 Hub model Designation 5 6 8 F -1, where:

5 = Major model type.

6 = Number of blades.

8 = Blade shank size.

F = Denotes flange mounting.

-1 = Indicates a specific model designation.

NOTE 2 Blade Model Designation.

Propeller blades are identified by a part number only, which does not constitute a model designation. See Note 11 for designation and clarification of specific type certified blade rework designations.

- NOTE 3** Pitch Control:
The propeller control for propeller model 568F1 is specified on the approved model parts list.
- NOTE 4** (a) Feathering: Full feathering with the approved propeller control is specified on approved model parts list.
(b) Reversing: Full reversing with the approved propeller control is specified on approved model part list.
- NOTE 5** Left-Hand Models: Not Applicable.
- NOTE 6** Interchangeable Blades:
The R815505-2, R815505R2, R815505S2, R815505-3, R815505R3 and R815505S3 are all interchangeable with each other.
The R815505-4, R815505R4 and R815505S4 are only interchangeable with each other. They are not interchangeable with any other blade.
The R815505-5 blade is not interchangeable with any other blades.
See Note 11 for description and clarification of specific type certified blade rework designations.
- NOTE 7** Accessories:
(a) Propeller deicing: The electrical deicing system is specified on approved model parts list and installed in accordance with the propeller manufacturer's instructions.
(b) Spinners: The spinner is specified on approved model parts list.
- NOTE 8** Shank Fairings: Not Applicable.
- NOTE 9** Special Limits:
Airworthiness limitations are specified in the applicable System Maintenance Manual (SMM) as listed below:
P5206 (568F-1)
And Propeller Component Maintenance Manual (CMM) 61-13-12
- NOTE 10** Life-Limited Parts: See Note 9.
- NOTE 11** Special Notation:
The propeller blade part number consists of a six-digit number, followed by a hyphen and another single digit. Where the hyphen is replaced by either an "R" or an "S", this identifies a blade that has been reworked to meet specific requirements. Blades marked with these letters remain interchangeable with those marked with a hyphen as described in Note 6.
- NOTE 12** Special Notes:
Aircraft installation must be approved as part of the aircraft type certification and demonstrates compliance with the applicable airworthiness requirements.
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NOTE 13 Model Parts List:

FAA Approved Model Parts lists are:

PL 27951-1 Approved 5 April 1995 for application with ATR42-500 series

PL 28012 Approved 28 October 1996 for application with ATR72-210A series.

PLK 28140 Approved 18 October 2000. Not approved for use with any type certified aircraft.

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