DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A63EU
Revision 6

GROB
G520
G520T

March 2, 2007

TYPE CERTIFICATE DATA SHEET NO. A63EU.

This data sheet which is a part of Type Certificate No. A63EU prescribes conditions and limitations under which the product for which the Type Certificate was issued, meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder.

BURKHART GROB Luft- und Raumfahrt
GmbH & Co. KG
Am Flugplatz
D86874 Tussenhausen-Mattsies
Federal Republic of Germany

I. Model GROB G520 EGRETT, approved September 13, 1991.

Engine.

GARRETT TPE 331-14F-801L

Fuel.

JET A, JET A1 or JET B

Engine Limits.

For take-off, 5 minutes, and for continuous operation, 750 SHP, 1478 r.p.m.
(NOTE: IEC-rated)

Propeller and Propeller Limits.

Hartzell HC-E4P-5/E11990K
Diameter 120 in., no cutoff permitted
Pitch settings at 42 in. station:

Start lock	-1.5º	+-0.1º
Flight idle	+4.5º	+0.3º/-0.0º
Feather	+78.5º	+-0.1º
Reverse	-10.0º	

Airspeed Limits.

	Knots*	m.p.h.	Mach*
V_{MO} (Max. Operating Speed)	153	176	0.448
V_A (Maneuvering Speed)	124	143	0.448
V_{FE} (Flaps Extended Speed)	120	138	0.448
V_{LO} (Landing Gear Open. Speed)	120	138	0.448
V_{LE} (Landing Gear Ext. Speed)	120	138	0.448

(NOTE: * whichever is lower)

C.G. Range.

Refer to G520-EGRETT Pilot's Operating Handbook page 2-7.

Empty Weight C.G. Range.

None

Datum.

200 inches forward of firewall front

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Leveling Means.	Leveling means is achieved by positioning the airplane on jacks, locating the lateral and longitudinal datum points on the bottom of the fuselage with a spirit level, and adjusting the center of gravity appropriately as specified in the maintenance manual.	
Maximum Weight.	Max. zero fuel weight	8988 lbs.
	Max. take-off weight	10362 lbs.
	Max. landing weight (refer to Note 1).	9843 lbs.
Minimum Crew.	1 pilot	
Number of Seats.	1	
Maximum Baggage.	Baggage compartments:	12
	Max. permitted baggage:	
	Baggage compartment 1/4	150 lbs. each
	Baggage compartment 2/5	225 lbs. each
	Baggage compartment 3/6	225 lbs. each
	Baggage compartment 7/8	150 lbs. each
	Baggage compartment 9/10	150 lbs. each
	Baggage compartment 11	525 lbs.
	Baggage compartment 12	49 lbs.
Fuel Capacity.	288 U.S. Gal. usable	
Oil Capacity.	7 qts. usable	
Parts with limited Operation.	Refer to G520-EGRETT Maintenance Manual (Chapter 4)	
Control Surface Movements.	Refer to G520-EGRETT Maintenance Manual (Chapter 27)	
Operational Altitude.	Max. permitted	25,000 ft. without pressure suit 50,000 ft. with pressure suit
Serial Nos. Eligible.	Model G 520 Serial # 10 002 and subsequent.	

II. Model GROB G520T, approved September 30, 1994

Engine.	GARRETT TPE 331-14F-801L		
Fuel.	JET A, JET A-1 or JET B		
Engine Limits.	For take-off, 5 minutes and for continuous operation, 750 SHP [1], 1478 r.p.m.		
	(NOTE: IEC-rated)		
Propeller and Propeller Limits.	Hartzell HC-E4P-5/E11990K Diameter 120 in., no cutoff permitted Pitch settings at 42 in. station:		
	Start lock	-1.5º	+-0.1º
	Flight idle	+4.5º	+0.3º/-0.0º
	Feather	+78.5º	+-0.1º
	Reverse	-10.0º	

Airspeed Limits.

		Knots	m.p.h.	Mach*
V_{MO}	(Max. Operating Speed)	153	176	0.448
V_A	(Maneuvering Speed)	118	136	0.448
V_{FE}	(Flaps Extended Speed)	120	138	0.448
V_{LO}	(Landing Gear Open. Speed)	120	138	0.448
V_{LE}	(Landing Gear Ext. Speed)	120	138	0.448

(NOTE: * whichever is lower)

C.G. Range. Refer to G520T Pilot's Operating Handbook Page 2-7

Empty Weight C.G. Range. None

Datum. 149 inches forward of firewall front

Leveling Means. Leveling means is achieved by positioning the airplane on jacks, locating the lateral and longitudinal datum points on the bottom of the fuselage with a spirit level, and adjusting the center of gravity appropriately as specified in the maintenance manual.

Maximum Weight.

Max. zero fuel weight	9334 lbs.
Max. take-off weight	10362 lbs.
Max. landing weight (refer to Note 1).	9773 lbs.

Minimum Crew. 1 pilot

Number of Seats. 2

Maximum Baggage. Baggage compartments: 14

Max. permitted baggage:

Baggage compartment 1/4	150 lbs. each
Baggage compartment 2/5	225 lbs. each
Baggage compartment 3/6	225 lbs. each
Baggage compartment 7	150 lbs. each
Baggage compartment 9/10	150 lbs. each
Baggage compartment 11/12	150 lbs. each
Baggage compartment 13	525 lbs.
Baggage compartment 14	49 lbs.

Fuel Capacity. 348 U.S. Gal. usable

Oil Capacity. 7 qts. usable

Parts with Limited Operation. Refer to G520T Maintenance Manual (Chapter 4)

Control Surface Movements. Refer to GPS 10200-6 EGRETT G520T Flight Controls

Operational Altitude. Max. permitted 25,000 ft. without pressure suit
50,000 ft. with pressure suit

Serial Nos. Eligible. Model G520T Serial # 10 200 and subsequent.

G520 Certification Basis.

1. 14 CFR Sections 21.29, 21.183(c) and 14 CFR 23, effective February 11, 1965 including amendment 23-1 through 23-34, and

2. 14 CFR Section 36, effective November 18, 1969, including amendments 36-1 through amendment 18 dated August 18, 1989, and,

3. SFAR 27, effective February 1, 1974 including Amendments 27-1 through 5, and

4. Special conditions pursuant to 14 CFR Section 21-16 issued to the model G520 Egrett, and published in the Federal Register, FR Vol. 55, No. 220, page 47455, on November 14, 1990, and

5. Equivalent Safety Finding No. ACE-91-01, dated June 25, 1991, and Equivalent Safety Finding No. ACE-92-01, dated April 1, 1992.

6. Section 611(b) of the FAA Act of 1958, and

7. Exemption No. 5223 granted by FAA (FAR 11.27) on September 13, 1990.

8. Equivalent Level of Safety No. ACE-94-10 dated July 20, 1994.

The Luftfahrt Bundesamt originally type certificated this aircraft under its type certificate Number 2066. The FAA validated this product under U.S. Type Certificate Number A63EU. Effective September 28, 2003, the European Aviation Safety Agency (EASA) began oversight of this product on behalf of Germany.

G520T Certification Basis.

1. 14 CFR Sections 21.29, 21.183(c) and 14 CFR 23, effective February 11, 1965 including amendment 23-1 through 23-34, and amendment 23-42, section 23.831, and

2. SFAR 27, effective February 1, 1974 including Amendments 27-1 through 5, and

3. 14 CFR Section 36, effective November 18, 1969, including amendments 36-1 through amendment in effect at the time of U.S. Type Certification, and

4. Any special conditions pursuant to 14 CFR Section 21-16 issued to the model Grob G520T, including Special Condition No. 23-ACE-66 (57FR9513 issued March 19, 1992), and

5. Equivalent Safety Findings No. ACE-91-01, dated June 25, 1991, and ACE-92-01, dated April 1, 1992 and

6. Exemptions approved by FAA (FAR 11.27) including No. 5223 dated September 13, 1990, and

7. Section 611 (b) of the FAA Act of 1958

8. Equivalent Level of Safety Finding for FAR 23.203 (a) (2) and .221 dated July 12, 1994.

The Luftfahrt Bundesamt originally type certificated this aircraft under its type certificate Number 2066. The FAA validated this product under U.S. Type Certificate Number A63EU. Effective September 28, 2003, the European Aviation Safety Agency (EASA) began oversight of this product on behalf of Germany.

Import Requirements

The FAA can issue a U.S. airworthiness certificate based on an NAA Export Certificate of Airworthiness (Export C of A) signed by a representative of the Luftfahrt Bundesamt on behalf of the European Community. The Export C of A should contain the following statement: 'The aircraft covered by this certificate has been examined, tested, and found to comply with U.S. airworthiness regulations 14 CFR Part 23 approved under U.S. Type Certificate No. A63EU and to be in a condition for safe operation.'

Equipment.

The basic required equipment as prescribed in the applicable airworthiness regulation (see "Certification Basis") must be installed in the airplane for certification.

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 Luftfahrt Bundesamt.

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

The FAA accepts such documents and considers them FAA-approved unless one of the following conditions exists:

- The documents change the limitations, performance, or procedures of the FAA approved manuals; or

- The documents make an acoustical or emissions changes to this product's U.S. type certificate as defined in 14 CFR § 21.93.

The FAA uses the post type validation procedures to approve these documents. The FAA may delegate on case-by-case to EASA to approve on behalf of the FAA for the U.S. type certificate. If this is the case it will be noted on the document.

NOTES

NOTE 1.

Current weight and balance data together with a list of equipment included in the certificated empty weight, and loading instructions, when necessary, must be provided for each aircraft at the time of original certification. The certificated empty weight and corresponding center of gravity locations must include the following:

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a) unusable fuel of 47 lbs. (242 in. aft of datum)
b) engine oil of 17 lbs. (139 in. aft of datum)

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a) unusable fuel of 47 lbs. (242 in. aft of datum)
b) engine oil of 16.75 lbs. (87.6 in. aft of datum)

NOTE 2.

All placards listed in Section 2, of the approved Pilot's Operating Handbook G520 and G520T must be installed in the appropriate locations. Each airplane must be supplied with a placard that specifies the kind of operations to which the operation of the airplane is limited by its installed equipment.

The following placard must be displayed on the instrument panel in full view of the pilot:

"THE MARKINGS AND PLACARDS INSTALLED IN THIS AIRPLANE CONTAIN OPERATING LIMITATIONS WHICH MUST BE COMPLIED WITH WHEN OPERATING THIS AIRPLANE IN THE NORMAL CATEGORY. OTHER OPERATING LIMITATIONS WHICH MUST BE

NOTE 2. cont'd

COMPLIED WITH WHEN OPERATING THIS AIRPLANE IN THIS CATEGORY ARE CONTAINED IN THE AIRPLANE FLIGHT MANUAL".

NOTE 3. G520

Airworthiness Limitations.
Chapter 04 of the G520-EGRETT Maintenance Manual includes the Airworthiness Limitation Section 4-00-00. This section is FAA approved and specifies maintenance required under paragraphs 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

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Airworthiness Limitations.
Chapter 04 of the G520T Maintenance Manual includes the Airworthiness Limitation Section 4-00-00. This section is FAA approved and specifies maintenance required under paragraphs 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

Note that Section 4-00-00 may not be changed without FAA-approval.

NOTE 4.

The Airframe of the G520 and G520T were demonstrated to be damage tolerant. Every 3000 flight hours the "Significant Structure Items Inspection" and prior to 15000 flight hours the "Airframe Major Inspection" must be performed. This may provide the necessary clearance for further flight.

NOTE 5.

Major structural repairs must be accomplished at FAA-certified repair stations rated for composite aircraft structure work. In accordance with GROB repair methods approved by FAA.

NOTE 6.

The G520 and G520T are approved for the following types of operations:

VFR DAY and NIGHT
IFR DAY and NIGHT
Flight into known icing

.....END.....