

TYPE-CERTIFICATE

DATA SHEET

NO. EASA.A.565

for GROB G 120TP

Type Certificate Holder GROB Aircraft SE

Lettenbachstrasse 9 86874 Tussenhausen-Mattsies Germany

For models: G 120TP-A



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SECTION A: G 120TP-A

A.I. General

1.	Data Sheet No.:	EASA.A.565
2.	а) Туре:	G 120TP
	b) Model:	G 120TP-A
	c) Variant:	

- 3. Airworthiness Category: Utility Aerobatic
- 4. Manufacturer: GROB AIRCRAFT SE LETTENBACHSTRASSE 9 86874 TUSSENAUSEN-MATTSIES GERMANY
- 5. EASA Certification 17. December 2009 Application Date:
- 6. (Reserved)
- 7. EASA Type Certification 06 May 2013 Date



A.II. EASA Certification Basis

- 1. Reference Date for 17. June 2010 determining the applicable requirements: 2. Airworthiness Requirements: CS-23, Amendment 1, issued 12 February 2009 If equipped i.a.w. OCN 565-83 with MCN 565-684: CS-ACNS, Issue 1 If equipped i.a.w. OAM 565-17: CS-ACNS, Issue 3 SC-F23.1309-02 Protection from Effects of HIRF 3. Special Conditions: SC-F23.1309-03 Protection from Effects of Lightning strikes, Indirect Effects If equipped i.a.w. OÄM 565-17: SC-B23.div-01 Human Factors - Integrated **Avionics Systems** 4. Exemptions: None 5. Deviations: If equipped i.a.w. OCN 565-83 with MCN 565-684: **Deviation CS-ACNS#1** CS 23.777(g) Location of Landing Gear Control 6. Equivalent Safety Findings: Lever If equipped i.a.w. OÄM 565-17: CS 23.1321(d)(4): Location of Heading Indicator PFD 7. Requirements elected to None comply: 8. Environmental Standards: Chapter 10 of ICAO Annex 16, Volume I, Fifth Edition, Amendment 9 CS-36, Amendment 2 CS-34, Original issue 9. (Reserved)
- 10. (Reserved)



A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition:	DocNo: DE-120TPA-000 Revision 0 or later approv	0100 Master Document Index, ved revision
2. Description:	turbo-propeller, low wing	ner aircraft. Single engine monoplane in composite anding gear, normal tail plane
3. Equipment:	Refer to Equipment list in	AFM, Section 6
4. Dimensions:	Span Length Height Wing Area	10.31 m (33.83 ft) 8.42 m (27.64 ft) 2.64 m (8.68 ft) 13.52 m ² (145.53 ft ²)
 5. Engine: 5.1.1 Model: 5.1.2 Type Certificate: 5.1.3 Limitations: 6. Load factors:	Rolls Royce 250-B17F FAA E10CE MCP MTOP Rated Prop Shaft Speed <u>Utility Category</u>	380 SHP 450 SHP (5 min.) 2030 RPM
	-1.76 / +4.4 (flaps up) 0 / +3.8 (flaps down <u>Aerobatic Category</u> -4.0 / +6.0 (flaps up) 0 / +3.8 (flaps down	,
 7. Propeller: 7.1 Model: 7.2 Type Certificate: 7.3 Number of blades: 7.4 Diameter: 7.5 Sense of Rotation: 	MT-Propeller MTV-5-1-D- LBA 32.130/103 5 2.10 m (82.68 in.) Clockwise	C-F-R(A)/CFR210-56

7.5 Sense of Rotation: Clockwise



Date: 08 March 2024

8. Fluids:

8.1	Fuel:	Refer to AFM, Section 2 for engine fuels
8.2	Oil:	Refer to AFM, Section 2 for engine oil
8.3	Coolant:	Not applicable

9. Fluid capacities:

••••••				
9.1	Fuel:	Total		(92.7 U.S. gallons)
		Usable	341.4 litres	(90.2 U.S. gallons)
9.2	Oil:	Min	5.0 litres	(5.3 U.S. quarts)
		Max	11.0 litres	(11.6 U.S. quarts)
9.3	Coolant system	Not applicable		· · · /
5.5	capacity:			
10. Aiı	Speeds:	Utility Category		
		VMO	235 KCAS	(238 KIAS)
			(SL to 1300	00 ft)
		M _{MO}	0.45 (1300	0 ft to 25000 ft)
		Vo	142 KCAS	(143 KIAS)
		VFE-TO	150 KCAS	(151 KIAS)
		VFE	113 KCAS	(114 KIAS)
		VLE	180 KCAS	(182 KIAS)
		VLOE	180 KCAS	(182 KIAS)
		VLOR	135 KCAS	(137 KIAS)
		Aerobatic Category		
		VMO	235 KCAS	(238 KIAS)
			(SL to 1300	00 ft)
		M _{MO}	0.45 (1300	0 ft to 20000 ft)
		Vo	162 KCAS	(164 KIAS)
		VFE-TO	150 KCAS	(151 KIAS)
		VFE	113 KCAS	(114 KIAS)
		VLE	180 KCAS	(182 KIAS)
		VLOE	180 KCAS	(182 KIAS)
		VLOR	135 KCAS	(137 KIAS)
11. Ma	aximum Operating	Utility Category	25000 ft	
	titude:	Aerobatic Category	20000 ft	
		0- 7		



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12.	Allweather Operations Capability:	VFR day and night, Flight into known ic	IFR ing conditions is prohibited
		lf equipped i.a.w. C	OCN 565-107:
		Flight into known or approved	r forecast icing conditions is
13.	Maximum Weights:	Utility Category	
		Take-off	1515 kg (3340 lb)
		Landing	1440 kg (3175 lb)
		From S/N 11037 or	if equipped i.a.w. OSB 565-018
		Landing	1515 kg (3340 lb)
		If equipped i.a.w. C	OCN 565-74 or OSB 565-094:
		Take-off	1625 kg (3582 lb)
		Landing	1545 kg (3406 lb)
		Aerobatic Category	,
		Take-off	1440 kg (3175 lb)
		Landing	1440 kg (3175 lb)
		If equipped i.a.w. C	OCN 565-74 or OSB 565-094:
		Take-off	1515 kg (3340 lb)
		Landing	1515 kg (3340 lb)
14	Centre of Gravity	Utility and Aerobati	c Category
	Range:	-	2.676 m (25% MAC) aft of datum
		Most aft C.G.	2.732 m (29% MAC) aft of datum to 2.766 m (31.5% MAC) aft of datum for 1170 kg to 1370 kg
			2.766 m (31.5% MAC) aft of datum
		lf aquipped i a w. C	for 1370 kg to 1515 kg ICN 565-74 or OSB 565-094:
		Most forward C.G.	
		Most forward C.G.	for 1170 kg to 1550 kg
			2.676 m (25% MAC) aft of datum to 2.683 m (25.5% MAC) aft of datum for 1550 kg to 1625 kg
		Most aft C.G.	2.732 m (29% MAC) aft of datum to 2.766 m (31.5% MAC) aft of datum for 1170 kg to 1370 kg
			2.766 m (31.5% MAC) aft of datum for 1370 kg to 1515 kg
			2.766 m (31.5% MAC) aft of datum to 2.759 m (31.0% MAC) aft of datum for 1515 kg to 1625 kg



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15.	Datum:	2.335 m in front of wing leading edge at 1.150 m outside the symmetry axis		
16.	Control surface deflections:	Refer to AMM, Section	6	
17.	Levelling Means:	Canopy frame bottom e	dge	
18.	Minimum Flight Crew:	1 Pilot		
19.	Maximum Passenger Seating Capacity:	1 Seat		
20.	Baggage/Cargo Compartments:	Location max. baggage. weight Utility Aerobatic	3.800 m aft of datum 50 kg (110 lb) no baggage allowed	
21.	Wheels and Tyres:	Nose Wheel Tyre Size Main Wheel Tyre Size	5.00-5 15x6.0-6	

22. (Reserved):



A.IV. Operating and Service Instructions

1. Flight Manual:	Airplane Flight Manual GROB G 120TP-A, DocNo. 1T-120TPA-1, Issue 1, Revision 0 or later approved version <i>If equipped i.a.w. OÄM 565-17:</i> Airplane Flight Manual GROB G 120TP-A, DocNo. 1T-120TPAD-1, Issue 1, Revision 0 or later approved version
2. Maintenance Manual:	Airplane Maintenance Manual GROB G 20TP-A, DocNo. 1T-120TPA-2, Issue 1, Revision 0 or later approved version
3. Structural Repair Manual:	Included in Airplane Maintenance Manual
4. Illustrated Parts Catalogue:	Illustrated Parts Catalogue GROB G120TP-A, DocNo. 1T-120TPA-4 (not part of ICA)

A.V. <u>Notes</u>

- 1. This TCDS, Section A applies to S/N 11002 and following model G 120TP-A aeroplanes.
- 2. Paint schemes have to be approved by the TC holder or National Airworthiness Authority.

ADMINISTRATIVE SECTION

Acronyms

AFM	Airplane Flight Manual
AMM	Airplane Maintenance Manual
C.G.	Centre of Gravity
CRI	Certification Review Item
HIRF	High Intensity Radiated Field
IFR	Instrument Flight Rules
IPC	Illustrated Parts Catalogue
MCP	Maximum Continuous Power
МТОР	Maximum Takeoff Power
OÄM	Optional Änderungsmitteilung (Optional Change Note)
OCN	Optional Change Note
OSB	Optional Service Bulletin
TCDS	Type Certificate Data Sheet
VFR	Visual Flight Rules
VFE-TO	Maximum Flaps Extended Speed, Takeoff Configuration
V _{FE}	Maximum Flaps Extended Speed, Landing Configuration
VLE	Maximum Landing Gear Extended Speed
VLOE	Maximum Landing Gear Extension Speed
V _{LOR}	Maximum Landing Gear Retraction Speed
V _{MO}	Maximum Operating Speed
M _{MO}	Maximum Operating Mach Number
Vo	Maximum Manoeuvring Speed

II Type Certificate Holder Record

TC Holder	Period
GROB Aircraft AG	until 01-Sep-2017
Lettenbachstrasse 9	
86874 Tussenhausen-Mattsies	
Germany	
GROB Aircraft SE	since 01-Sep-2017
Lettenbachstrasse 9	
86874 Tussenhausen-Mattsies	
Germany	



III Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	06 May 2013	Initial Issue	01 May 2013
Issue 02	11 December 2014	Major change "G 120TP-A Digital Cockpit" implemented with optional change note OÄM 565-17 and administrative update to include Major Change "Increased Maximum Landing Weight" implemented from S/N 11037 and through OSB 565-018 and to correct some typos	02, Dec 2014
Issue 03	30 January 2018	Major change "Maximum Mass Increase" implemented with optional change note OCN 565-74, Change of corporate form of Type Certificate Holder and of Production Organisation and administrative update	01 Sep 2017
Issue 04	08 March 2024	Major Change "Extension of aerobatic CG range" implemented with change note MCN 565-859 Major change "Ice Protection System" implemented with optional change note OCN 565-107 and administrative update	01 Sep 2017

