TYPE-CERTIFICATE

DATA SHEET

NO. EASA.A.553

for
BÖLKOW BO 207

Type Certificate Holder
Airbus Defence and Space GmbH

Willy-Messerschmitt-Straße 1
82024 Taufkirchen
Germany

For models: Bölkow 207
Bölkow 207T

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SECTION A: BÖLKOW 207

A.I. General

1. Type/ Model/ Variant	
1.1 Type	Bölkow BO 207
1.2 Model	Bölkow 207
1.3 Variant	N/A
2. Airworthiness Category	Normal
3. Manufacturer	Bölkow-Apparatebau GmbH Werk Laupheim Nabern/Teck, Württ., Germany
4. EASA Type Certification Application Date	15 October 2014 (see note 4)
5. State of Design Authority	Germany (see note 4)
6. State of Design Authority Type Certificate Date	29 August 1961 (see note 4)
7. EASA Type Certification Date	02 February 2015 (see note 4)

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements	N/A
2. Airworthiness Requirements	CAR Part 3 dated 15 May 1956 plus Amendment 3-1 through 3-5
3. Special Conditions	N/A
4. Exemptions	N/A
5. (Reserved) Deviations	N/A
6. Equivalent Safety Findings	N/A
7. Environmental Protection	ICAO Annex 16, Vol. I; for details see TCDSN.A.553

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Set of drawings, specifications and reports
2. Description	Single engine, cantilever low-wing four place aircraft, wood construction, tail wheel configuration
3. Equipment	Required equipment acc. to certification standard CAR Part 3 Additionally: 1 stall warning

4. Dimensions	Wing Span:	10,81m		
	Length:	8,30m		
	Height:	2,25m		
5. Engine				
5.1. Model	Engine 1:	Lycoming O-360-A1A		
	Engine 2:	Lycoming O-360-A1AD		
	Engine 3:	Lycoming O-360-A1D		
	Engine 4:	Lycoming O-360-A2A		
5.2 Type Certificate	Engine 1 - 4:	US E-286		
5.3 Limitations	Maximum speed 2700rpm			
	Maximum continuous speed 2700rpm			
6. Load factors	n = +3,8			
7. Propeller				
7.1 Model	Propeller 1:	Hartzell HC-92ZK-8D/8447A-12A		
	Propeller 2:	Sensenich M76EMM60		
	Propeller 3:	Sensenich 76EM8060		
7.2 Type Certificate	Propeller 1:	US P-892		
	Propeller 2 & 3:	US 1P2		
7.3 Number of blades	2			
7.4 Diameter	Propeller 1:	183cm (72inch)		
	Propeller 2 & 3:	193cm (76inch)		
7.5 Sense of Rotation	Clockwise			
8. Fluids				
8.1 Fuel	Aviation fuel, min. 91/96 octane			
8.2 Oil			unalloyed	alloyed
	above	+16°C	SAE 50	SAE 40 or 50
	from	0°C to +32°C	SAE 40	SAE 40
	from	-18°C to +21°C	SAE 30	SAE 40
	below	-12°C	SAE 20	SAE 40
8.3 Coolant	N/A			
9. Fluid capacities				
9.1 Fuel	Max fuel quantity:	190l		
	Usable fuel quantity:	188l		
9.2 Oil	7,6l			
9.3 Coolant system capacity	N/A			
10. Air Speeds	Never Exceed Speed		V_{NE}	340km/h
	Manoeuvring Speed		V_A	220km/h
	Maximum Normal Operating Speed		V_{NO}	265km/h
	Maximum Flap Extended Speed		V_{FE}	160km/h
11. Flight Envelope	Not specified			
12. Approved Operations Capability	VFR			

13. Maximum Masses		Maximum Take-off mass	1200kg	
14. Centre of Gravity Range		Max. FWD:	2535mm @ 1025kg linear to 2640mm @ 1200kg	
		Max. AFT:	2720mm	
15. Datum		1500mm FWD of leading edge of firewall bulkhead		
16. Control surface deflections				
Control Surface		Deflection incl. tolerance	Deflection incl. tolerance	Measuring point distance from axis
Aileron	Up	22° (-1°)	90mm (-5)	222mm
	Down	20° (-1°)	81mm (-5)	
Rudder	Left/Right	27° (-2°)	287mm (-20)	615mm
Elevator	Up	28° (-2°)	258mm (-18)	532mm
	Down	23° (-2°)	210mm (-18)	
Horizontal Stabilizer	Up	2°		
	Down	5°		
Flaps	Up	0°	0mm	322mm
	Down	60° (-3°)	322mm (-11)	
17. Levelling Means		horizontal using level marks on side of fuselage		
18. Minimum Flight Crew		1		
19. Maximum Passenger Seating Capacity		3		
20. Baggage/ Cargo Compartments		max. 40kg		
21. Wheels and Tyres		Main Tyres	6” x 6 1/2”	
		Tail Tyre	3” x 3 1/2"	
22. (Reserved)				

A.IV. Operating and Service Instructions

1. Flight Manual	Flight Manual approved by DVL/PfL July 1961 incl. revisions (included in Operating Handbook as chapter V)
2. Maintenance Manual	Operating Handbook Bölkow 207, date of issue August 1961 incl. revisions Maintenance Handbook Bölkow 207, date of issue August 1961 incl. revisions
3. Structural Repair Manual	Not specified
4. Weight and Balance Manual	Covered in Operating Handbook and Maintenance Handbook
5. Illustrated Parts Catalogue	Ersatzteilliste Bölkow 207, KIM 95D-12/65

A.V. Notes

1. Eligible Serial Numbers are not specified

2. Additional information concerning powerplant installation:

   Permissible engine-propeller combinations:

   Engines 1, 2 and 3 with propeller 1
   Engine 4 with propeller 2 or 3
   Remark: When using the Sensenich M76EMM60 (propeller 2), Bölkow-Apparatebau GmbH Change Notice No. 27 must be carried out.

3. The Operating Handbook (incl. the flight manual as chapter V) and the Maintenace Handbook are also valid in German language

4. The EASA TCDS is based on the LBA TCDS No. 643/SA for BO 207 at Issue 8, dated 12 April 2005

SECTION B: BÖLKOW 207T

B.I. General

1. Type/ Model/ Variant	
1.1 Type	Bölkow BO 207
1.2 Model	Bölkow 207T
1.3 Variant	N/A
2. Airworthiness Category	Normal Utility
3. Manufacturer	Bölkow-Apparatebau GmbH Werk Laupheim Nabern/Teck, Württ., Germany
4. EASA Type Certification Application Date	15 October 2014 (see note 4)
5. State of Design Authority	Germany (see note 4)
6. State of Design Authority Type Certificate Date	10 September 1963 (see note 4)
7. EASA Type Certification Date	02 February 2015 (see note 4)

B.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements	N/A
2. Airworthiness Requirements	CAR Part 3 dated 15 May 1956 plus Amendment 3-1 through 3-5
3. Special Conditions	N/A
4. Exemptions	N/A
5. (Reserved) Deviations	N/A
6. Equivalent Safety Findings	N/A
7. Environmental Protection	ICAO Annex 16, Vol. I; for details see TCDSN.A.553

B.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Set of drawings, specifications and reports
2. Description	Single engine, cantilever low-wing four place aircraft, wood construction, tail wheel configuration
3. Equipment	Required equipment acc. to certification standard CAR Part 3 Additionally: 1 stall warning

4. Dimensions	Wing Span:	10,81m		
	Length:	8,30m		
	Height:	2,25m		
5. Engine				
5.1. Model	Engine 1:	Lycoming O-360-A1A		
	Engine 2:	Lycoming O-360-A1AD		
	Engine 3:	Lycoming O-360-A1D		
	Engine 4:	Lycoming O-360-A2A		
5.2 Type Certificate	Engine 1 - 4:	US E-286		
5.3 Limitations	Maximum speed 2700rpm			
	Maximum continuous speed 2700rpm			
6. Load factors	Normal:	n = +3,8		
	Utility:	n = -1,76 to +4,4		
7. Propeller				
7.1 Model	Propeller 1:	Hartzell HC-92ZK-8D/8447A-12A		
	Propeller 2:	Sensenich M76EMM60		
	Propeller 3:	Sensenich 76EM8060		
7.2 Type Certificate	Propeller 1:	US P-892		
	Propeller 2 & 3:	US 1P2		
7.3 Number of blades	2			
7.4 Diameter	Propeller 1:	183cm (72inch)		
	Propeller 2 & 3:	193cm (76inch)		
7.5 Sense of Rotation	Clockwise			
8. Fluids				
8.1 Fuel	Aviation fuel, min. 91/96 octane			
8.2 Oil			unalloyed	alloyed
	above	+16°C	SAE 50	SAE 40 or 50
	from	0°C to +32°C	SAE 40	SAE 40
	from	-18°C to +21°C	SAE 30	SAE 40
	below	-12°C	SAE 20	SAE 40
8.3 Coolant	N/A			
9. Fluid capacities				
9.1 Fuel	Max fuel quantity:	190l		
	Usable fuel quantity:	188l		
9.2 Oil	7,6l			
9.3 Coolant system capacity	N/A			
10. Air Speeds	Never Exceed Speed		V_{NE}	340km/h
	Manoeuvring Speed		V_A	220km/h
	Maximum Normal Operating Speed		V_{NO}	265km/h
	Maximum Flap Extended Speed		V_{FE}	160km/h
11. Flight Envelope	Not specified			

12. Approved Operations Capability	VFR			
13. Maximum Masses	Maximum Take-off mass			
	Normal:	1200kg		
	Utility:	1025kg		
14. Centre of Gravity Range	Normal:	Max. FWD:	2535mm @ 1025kg linear to 2640mm @ 1200kg	
		Max. AFT:	2720mm	
	Utility:	Max. FWD:	2535mm	
		Max. AFT:	2650mm	
15. Datum	1500mm FWD of leading edge of firewall bulkhead			

16. Control surface deflections

Control Surface		Deflection incl. tolerance	Deflection incl. tolerance	Measuring point distance from axis
Aileron	Up	22° (-1°)	90mm (-5)	222mm
	Down	20° (-1°)	81mm (-5)	
Rudder	Left/Right	27° (-2°)	343mm (-25)	735mm
Elevator	Up	28° (-2°)	258mm (-18)	532mm
	Down	23° (-2°)	210mm (-18)	
Horizontal Stabilizer	Up	2°		
	Down	5°		
Flaps	Up	0°	0mm	322mm
	Down	60° (-3°)	322mm (-11)	

17. Levelling Means	horizontal using level marks on side of fuselage		
18. Minimum Flight Crew	1		
19. Maximum Passenger Seating Capacity	Normal:	3	
	Utility:	1	
20. Baggage/ Cargo Compartments	max. 40kg		
21. Wheels and Tyres	Main Tyres	6” x 6 1/2”	
	Tail Tyre	3” x 3 1/2"	

22. (Reserved)

B.IV. Operating and Service Instructions

1. Flight Manual	Flight Manual approved by DVL/PfL July 1961 incl. revisions (included in Operating Handbook as chapter V)
2. Maintenance Manual	Operating Handbook Bölkow 207, date of issue August 1961 incl. revisions Maintenance Handbook Bölkow 207, date of issue August 1961 incl. revisions
3. Structural Repair Manual	Not specified
4. Weight and Balance Manual	Covered in Operating Handbook and Maintenance Handbook

5. Illustrated Parts Catalogue Ersatzteilliste Bölkow 207, KIM 95D-12/65

B.V. Notes

1. Eligible Serial Numbers are not specified

2. Additional information concerning powerplant installation:

   Permissible engine-propeller combinations:

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   Remark: When using the Sensenich M76EMM60 (propeller 2), Bölkow-Apparatebau GmbH Change Notice No. 27 must be carried out.

3. The Operating Handbook (incl. the flight manual as chapter V) and the Maintenace Handbook are also valid in German language

4. The EASA TCDS is based on the LBA TCDS No. 643/SA for BO 207T at Issue 8, dated 12 April 2005

SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations

CAR	Civil Aviation Regulations
DVL/PfL	Deutsche Versuchsanstalt für Luftfahrt / Prüfstelle für Luftfahrtgerät
FAA	Federal Aviation Administration
FWD	Forward
ICAO	International Civil Aviation Organization
N/A	Not applicable
SAE	Society of Automotive Engineers
TCDS	Type Certificate Data Sheet
VFR	Visual Flight Rules

II. Type Certificate Holder Record

Day of Entry	Company Name (Legal Entity)
26.06.1958	Bölkow Apparatebau GmbH
11.07.1969	Messerschmitt-Bölkow-Blohm GmbH
01.04.1992	Messerschmitt-Bölkow-Blohm AG
30.09.1992	Deutsche Aerospace AG
02.01.1995	Daimler-Benz Aerospace AG
17.11.1998	Daimler Chrysler Aerospace AG
10.07.2000	EADS Deutschland GmbH
01.07.2014	Airbus Defence and Space GmbH

III. Change Record

Issue	Date	Changes	TC Issue No. & Date
01	02 February 2015	Initial Issue after TC transfer	01, 02 February 2015
02	22 June 2015	Note A.V.2 deleted Type Certificate Holder Record revised	01, 02 February 2015
03	13 November 2018	Change of TC holder address	02, 13 November 2018
04	15 October 2020	Minor updates to wording and content	02, 13 November 2018

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