TYPE-CERTIFICATE

DATA SHEET

NO. EASA.A.358

for
BÖLKOW BO 208

Type Certificate Holder
Airbus Defence and Space GmbH

Willy-Messerschmitt-Straße 1
82024 Taufkirchen
Germany

For models: Bölkow Junior
Bölkow BO 208 C Junior

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SECTION A: BÖLKOW JUNIOR

A.I. General

1. Type/ Model/ Variant	
1.1 Type	Bölkow BO 208
1.2 Model	Bölkow Junior
1.3 Variant	N/A
2. Airworthiness Category	Normal Utility
3. Manufacturer	Bölkow-Apparatebau GmbH Werk Laupheim Nabern/Teck, Württ., Germany Waggon- und Maschinenbau AG Siebelwerke ATG GmbH Donauwörth, Germany
4. EASA Type Certification Application Date	15 October 2014 (see note 2)
5. State of Design Authority	Germany (see note 2)
6. State of Design Authority Type Certificate Date	22 April 1963 (see note 2)
7. EASA Type Certification Date	02 February 2015 (see note 2)

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 3-7
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.358

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Set of drawings, specifications and reports	
2. Description	Single engine, strut-braced shoulder-wing two place aircraft with nose wheel configuration, metal construction	
3. Equipment	Required equipment acc. to certification standard CAR Part 3	
	Additionally: 1 stall warning and 2 shoulder harnesses	
4. Dimensions	Wing Span:	7,42m or 8,02m (TM 208-22/64)
	Length:	5,79m
	Height:	1,98m
5. Engine		
5.1. Model	Engine 1:	Continental O-200-A
	Engine 2:	Continental RR O-200-A
5.2 Type Certificate	Engine 1:	EASA.IM.E.101
	Engine 2:	US E3IN
5.3 Limitations	Maximum continuous speed 2750rpm	
6. Load factors	Normal:	n = -1,52 to +3,8
	Utility:	n = -1,76 to +4,4
7. Propeller		
7.1 Model	Propeller 1:	Hoffmann Propeller GmbH & Co. KG HOCO F-H2/LC14-170 123 7R
	Propeller 2:	McCauley 1A100MCM 6758
	Propeller 3:	McCauley 1A100MCM 6950
	Propeller 4:	McCauley 1A100MCM 6955
	Note: Propellers 1 through 4 can alternatively be fitted to engines 1 and 2	
7.2 Type Certificate	Propeller 1:	DE 32.110/1
	Propeller 2-4:	US P-918
7.3 Number of blades	2	
7.4 Diameter	Propeller 1 & 2:	170cm
	Propeller 3 & 4:	175cm
7.5 Sense of Rotation	Clockwise	
8. Fluids		
8.1 Fuel	Aviation fuel, min. 80/87 octane	
8.2 Oil	below +4°C (40°F)	SAE 30
	above +4°C (40°F)	SAE 50
8.3 Coolant	N/A	
9. Fluid capacities		
9.1 Fuel	Max fuel quantity:	80l or 100l (TM 208-18/64)
	Usable fuel quantity:	77,5l or 97,5l
9.2 Oil	4,7l	
9.3 Coolant system capacity	N/A	

10. Air Speeds	Never Exceed Speed		V_{NE}	153kts
	Manoeuvring Speed		V_A	106kts
	Maximum Normal Operating Speed		V_{NO}	124kts
	Maximum Flap Extended Speed		V_{FE}	79kts
11. Flight Envelope	Not specified			
12. Approved Operations Capability	VFR Day, no icing			
13. Maximum Masses	Maximum Take-off mass			
	Normal:	600kg		
	Utility:	575kg		
14. Centre of Gravity Range	Normal:	Max. FWD:	1711mm @ 532kg linear to 1770mm @ 600kg	
		Max. AFT:	1792mm @ 600kg linear to 1807mm @ 520kg	
	Utility:	Max. FWD:	1711mm @ 532kg linear to 1746mm @ 575kg	
		Max. AFT:	1777mm @ 575kg linear to 1807mm @ 520kg	
15. Datum	Reference plane is 1900mm FWD of reference point (red encircled rivet on each fuselage side wall, located 100mm FWD of hole center of lower wing strut fitting)			
16. Control surface deflections	Aileron	Up	25° (+/-1°)	
		Down	12° (+/-1°)	
	Rudder	Left/Right	20° (+/-2°)	
	Elevator	Up	18° (+/-1°)	
		Down	9° (+/-1°)	
	Trim tab	see Maintenance Manual		
	Flaps	Up	0°	
		Down	35° (+/-1°)	
17. Levelling Means	horizontal using extended line from level marks on left side of fuselage			
18. Minimum Flight Crew	1			
19. Maximum Passenger Seating Capacity	1			
20. Baggage/ Cargo Compartments	max. 20kg			
21. Wheels and Tyres	5.00 x 5”			
22. (Reserved)				

A.IV. Operating and Service Instructions

1. Flight Manual	Flight Manual Bölkow Junior, DVL/PfL-approved 15 February 1963 (KF-1D or KF-1E) incl. revisions
2. Maintenance Manual	Operator's Handbook Bölkow Junior, date of issue November 1962 (KF-2D or KF-2E) incl. revisions Maintenance Manual Bölkow Junior, date of issue November 1962 (KF-3D or KF-3E) incl. revisions
3. Structural Repair Manual	Not specified
4. Weight and Balance Manual	Covered in Flight Manual, Operator's Manual and Maintenance Manual
5. Illustrated Parts Catalogue	Ersatzteilliste Bölkow Junior, date of issue October 1964 incl. revisions

A.V. Notes

1. Serial Numbers 500 to 566
2. The EASA TCDS is based on the LBA TCDS No. 644/SA for BO 208 (at Issue 12, dated 12 April 2005)

SECTION B: BÖLKOW BO 208 C JUNIOR

B.I. General

1. Type/ Model/ Variant	
1.1 Type	Bölkow BO 208
1.2 Model	Bölkow BO 208 C Junior
1.3 Variant	N/A
2. Airworthiness Category	Normal Utility
3. Manufacturer	Bölkow-Apparatebau GmbH Werk Laupheim Nabern/Teck, Württ., Germany Waggon- und Maschinenbau AG Siebelwerke ATG GmbH Donauwörth, Germany
4. EASA Type Certification Application Date	15 October 2014 (see note 2)
5. State of Design Authority	Germany (see note 2)
6. State of Design Authority Type Certificate Date	20 May 1965 (see note 2)
7. EASA Type Certification Date	02 February 2015 (see note 2)

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 3-7
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.358

B.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Set of drawings, specifications and reports	
2. Description	Single engine, strut-braced shoulder-wing two place aircraft with nose wheel configuration, metal construction	
3. Equipment	Required equipment acc. to certification standard CAR Part 3	
	Additionally: 1 stall warning and 2 shoulder harnesses	
4. Dimensions	Wing Span:	8,02m
	Length:	5,79m
	Height:	1,98m
5. Engine		
5.1. Model	Engine 1:	Continental O-200-A
	Engine 2:	Continental RR O-200-A
5.2 Type Certificate	Engine 1:	EASA.IM.E.101
	Engine 2:	US E3IN
5.3 Limitations	Maximum continuous speed 2750rpm	
6. Load factors	Normal:	n = -1,52 to +3,8
	Utility:	n = -1,76 to +4,4
7. Propeller		
7.1 Model	Propeller 1:	McCauley 1A100MCM 6758
	Propeller 2:	McCauley 1A100MCM 6950
	Propeller 3:	McCauley 1A100MCM 6955
	Note: Propellers 1 through 3 can alternatively be fitted to engines 1 and 2	
7.2 Type Certificate	Propeller 1-3:	US P-918
7.3 Number of blades	2	
7.4 Diameter	Propeller 1:	170cm
	Propeller 2 & 3:	175cm
7.5 Sense of Rotation	Clockwise	
8. Fluids		
8.1 Fuel	Aviation fuel, min. 80/87 octane	
8.2 Oil	below +4°C (40°F)	SAE 30
	above +4°C (40°F)	SAE 50
8.3 Coolant	N/A	
9. Fluid capacities		
9.1 Fuel	Max fuel quantity:	100l
	Usable fuel quantity:	97,5l
9.2 Oil	4,7l	
9.3 Coolant system capacity	N/A	

10. Air Speeds	Never Exceed Speed		V_{NE}	153kts
	Manoeuvring Speed		V_A	106kts
	Maximum Normal Operating Speed		V_{NO}	124kts
	Maximum Flap Extended Speed		V_{FE}	79kts
11. Flight Envelope	Not specified			
12. Approved Operations Capability	VFR Day, no icing			
13. Maximum Masses	Maximum Take-off mass			
	Normal:	630kg		
	Utility:	600kg		
14. Centre of Gravity Range	Normal:	Max. FWD:	1710mm @ 574kg linear to 1760mm @ 630kg	
		Max. AFT:	1800mm @ 630kg linear to 1825mm @ 550kg	
	Utility:	Max. FWD:	1710mm @ 574kg linear to 1732mm @ 600kg	
		Max. AFT:	1810mm @ 600kg linear to 1820mm @ 550kg	
15. Datum	Reference plane is 1900mm FWD of reference point (red encircled rivet on each fuselage side wall, located 100mm FWD of hole center of lower wing strut fitting)			
16. Control surface deflections	Aileron	Up	25° (+/-1°)	
		Down	12° (+/-1°)	
	Rudder	Left/Right	20° (+/-2°)	
	Elevator	Up	18° (+/-1°)	
		Down	9° (+/-1°)	
	Trim tab	see Maintenance Manual		
	Flaps	Up	0°	
		Down	35° (+/-1°)	
17. Levelling Means	horizontal using extended line from level marks on left side of fuselage			
18. Minimum Flight Crew	1			
19. Maximum Passenger Seating Capacity	1			
20. Baggage/ Cargo Compartments	max. 20kg			
21. Wheels and Tyres	Main Tyres 5.50 x 5” or 380 x 150 (TM208-1/84)			
	Nose Tyre 5.00 x 5”			
22. (Reserved)				

B.IV. Operating and Service Instructions

1. Flight Manual	Flight Manual Bölkow Bo 208 C Junior, DVL/PfL-approved 19 May 1965 (KIM-60D or KIM-60E) incl. revisions
2. Maintenance Manual	Operator's Handbook Bölkow Bo 208 C Junior, date of issue April 1965 (KIM-61D) or August 1965 (KIM-61E) incl. revisions Maintenance Manual Bölkow Bo 208 C Junior, date of issue April 1965 (KIM-62D) or August 1965 (KIM-62E) incl. revisions
3. Structural Repair Manual	Not specified
4. Weight and Balance Manual	Covered in Flight Manual, Operator's Manual and Maintenance Manual
5. Illustrated Parts Catalogue	Spare Parts Catalogue Bölkow Bo 208 C Junior, date of issue September 1966 (BI99D) or June 1967 (BI99E) incl. revisions

B.V. Notes

1. Serial Numbers 567 and higher
2. The EASA TCDS is based on the LBA TCDS No. 644/SA for BO 208 C Junior at Issue 11, 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
LBA	Luftfahrt Bundesamt
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	06 March 2015	References to initial LBA TCDS in A.I.7 and B.I.7 corrected	01, 02 February 2015
03	22 June 2015	Type Certificate Holder Record revised	01, 02 February 2015
04	13 November 2018	Change of TC holder address	02, 13 November 2018
05	15 October 2020	Minor updates to wording and content	02, 13 November 2018

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