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.  a) Type:  Bölkow BO 208
    b) Model:  Bölkow Junior

2.  Airworthiness Category:  Normal
    Utility

3.  Type Certificate Holder:  Airbus Defence and Space GmbH
    Willy-Messerschmitt-Straße 1
    82024 Taufkirchen, Germany

4.  Contracted DOA Holder:  N/A

5.  Manufacturer:  Bölkow-Apparatebau GmbH
    Werk Laupheim
    Nabern/Teck, Württ., Germany

    Waggon- und Maschinenbau AG
    Siebelwerke ATG GmbH
    Donauwörth, Germany

6.  (Reserved)

7.  Type Certification in Federal Republic of Germany by Luftfahrt-Bundesamt 22 April 1963

    The EASA TCDS is based on the LBA TCDS No. 644/SA for BO 208 (at Issue 12, dated 12 April 2005)

A.II.  EASA Certification Basis

1.  Airworthiness Requirements:  CAR Part 3 dated 15 May 1956 plus Amendment 3-1 through 3-7

2.  Environmental Standards:  ICAO Annex 16, Vol. I; for details see TCDSN.A.358
## A.III. Technical Characteristics and Operational Limitations

1. **Description:** Single-engine, strut-braced high-wing aircraft with nose wheel configuration, metal construction

2. **Equipment:**
   - Required equipment acc. to CAR part 3
   - Additionally: 1 stall warning and 2 shoulder harnesses

3. **Dimensions:**
   - Wing Span: 7.42 m
   - 8.02 m when fitted with wing extensions
   - Length: 5.79 m
   - Height: 1.98 m

4. **Engine:**
   - 5.1.1 Model: Engine 1: Continental O-200-A
   - Engine 2: Continental RR O-200-A
   - 5.1.2 Type Certificate: Engine 1: EASA.IM.E.101
   - Engine 2: US E3IN
   - 5.1.3 Limitations: Maximum continuous speed 2750 rpm

5. **Propeller:**
   - 5.1 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
   - 5.2 Type Certificate: Propeller 1: DE 32.110/1
   - Propeller 2-4: US P-918
   - 5.3 Number of blades: 2
   - 5.4 Diameter: Propeller 1 & 2: 170 cm
   - Propeller 3 & 4: 175 cm
   - 5.5 Sense of Rotation: clockwise
   - Additional information concerning powerplant installation
     - Propellers 1 through 4 alternatively for engines 1 and 2

6. **Fluids:**
   - 6.1 Fuel: Aviation fuel min. 80/87 octane
   - 6.2 Oil: Below +4°C (40°F): SAE 30
Above +4°C (40°F): SAE 50

7. Fluid capacities:

7.1 Fuel: Max. fuel: 80 l
Usable fuel quantity: 77,5 l

7.2 Oil: 4,7 l

8. Air Speeds: Max. permissible speed $V_{NE}$: 283 km/h
Max. permissible:
- Manoeuvring speed $V_A$: 196 km/h
- Cruising speed $V_{NO}$: 229 km/h
- Flaps extended $V_{FE}$: 146 km/h

9. (Reserved)

10. Load factors: Normal aircraft: $n = -1,52$ to $+3,8$
    Utility aircraft: $n = -1,76$ to $+4,4$

11. Maximum Weights: Max. permissible takeoff mass:
    Normal aircraft 600 kg
    Utility aircraft 575 kg

12. Centre of Gravity Range:
    Normal aircraft
    Max. Forward: 1711 mm at 532 kg to 1770 mm at 600 kg
    Max. Aft: 1792 mm at 600 kg to 1807 mm at 520 kg
    Utility aircraft
    Max. Forward: 1711 mm at 532 kg to 1746 mm at 575 kg
    Max. Aft: 1777 mm at 575 kg to 1807 mm at 520 kg
    Linear change between the individual points

13. Datum:
    Reference plane: 1900 mm forward of mark on lower wing strut fitting (mark is 100 mm forward of hole centre of fitting)
    Attitude: extended line from level marks (left side of fuselage) horizontal

15. Control surface deflections: Refer to Maintenance Manual
16. Minimum Flight Crew: 1 pilot
17. Maximum Passenger Seating Capacity: 1 passenger
18. Baggage/Cargo Compartments: max. 20 kg in baggage/cargo compartment
19. Wheels and Tyres: Refer to Operator’s Handbook
20. (Reserved):

A.IV. Operating and Service Instructions

1. Manual for Operation:
   a) Flight Manual Bölkow Junior, DVL/PfL-approved 15 February 1963
   b) Information labels pursuant to flight manual 1.12

2. Technical Manual:
   a) Operator’s Handbook Bölkow Junior
   b) Maintenance Manual Bölkow Junior
   c) Continental Operations Manual and Service Maintenance Instructions

A.V. Notes:

1. Serial numbers: 500 to 566
2. Operating modes:
   a) Only for daylight flights under visual flight rules
   b) Not for flights in icing conditions

3. a) In accordance with Bölkow Technical Note 208-22/64, the use of wing edge caps
   (extension of wingspan) is permissible in normal and utility airworthiness classes for serial No. 525 and up.
   b) Modified form according to note 3.a) permissible from serial number 505 through 524 inclusive, but only in the normal airworthiness class.

5. Installation of a 100 litre fuel tank pursuant to Bölkow Technical Note 208-18/64 is permissible. The maximum flying weight may not be exceeded.
SECTION B: BÖLKOW BO 208 C JUNIOR

B.I. General

1. a) Type: Bölkow BO 208
   b) Model: Bölkow BO 208 C Junior

2. Airworthiness Category: Normal
   Utility

3. Type Certificate Holder: Airbus Defence and Space GmbH
   Willy-Messerschmitt-Straße 1
   82024 Taufkirchen, Germany

4. Contracted DOA Holder: N/A

5. Manufacturer: Bölkow-Apparatebau GmbH
   Werk Laupheim
   Nabern/Teck, Württ., Germany
   Waggon- und Maschinenbau AG
   Siebelwerke ATG GmbH
   Donauwörth, Germany

6. (Reserved)

7. Type Certification in Federal Republic of Germany by Luftfahrt-Bundesamt on 20 May 1965

The EASA TCDS is based on the LBA TCDS No. 644/SA for BO 208 C Junior (at Issue 11, dated 12 April 2005)

B.II. EASA Certification Basis

1. Airworthiness Requirements: CAR Part 3 dated 15 May 1956 plus Amendment 3-1 through 3-7

2. Environmental Standards: ICAO Annex 16, Vol. I; for details see TCDSN.A.357
B.III. **Technical Characteristics and Operational Limitations**

1. **Description:** Single-engine, strut-braced high-wing aircraft with nose wheel configuration, metal construction

2. **Equipment:** Required equipment acc. to CAR part 3
   Additionally: 1 stall warning and 2 shoulder harnesses

3. **Dimensions:**
   - Wing Span: 8,02 m
   - Length: 5,79 m
   - Height: 1,98 m

4. **Engine:**
   4.1 **Model:**
      - Engine 1: Continental O-200-A
      - Engine 2: Continental RR O-200-A
   4.2 **Type Certificate:**
      - Engine 1: EASA.IM.E.101
      - Engine 2: US E3IN
   4.3 **Limitations:**
      Maximum continuous speed 2750 rpm

5. **Propeller:**
   5.1 **Model:**
      - Propeller 1: McCauley 1A100MCM 6758
      - Propeller 2: McCauley 1A100MCM 6950
      - Propeller 3: McCauley 1A100MCM 6955
   5.2 **Type Certificate:**
      - Propeller 1-3: US P-918
   5.3 **Number of blades:** 2
   5.4 **Diameter:**
      - Propeller 1: 170 cm
      - Propeller 2 & 3: 175 cm
   5.5 **Sense of Rotation:** Clockwise

Additional information concerning powerplant installation:

Propellers 1 through 3 alternatively for engines 1 and 2
6. Fluids:
   6.1 Fuel: Aviation fuel min. 80/87 octane
   6.2 Oil: Below +4°C (40°F): SAE 30
            Above +4°C (40°F): SAE 50

7. Fluid capacities:
   7.1 Fuel: Max. fuel: 100 l
            Usable fuel quantity: 97,5 l
   7.2 Oil: 4,7 l

8. Air Speeds:
   Max. permissible speed \( V_{NE} \): 283 km/h
   Max. permissible:
   - Manoeuvring speed \( V_A \): 196 km/h
   - Cruising speed \( V_{NO} \): 229 km/h
   - Flaps extended \( V_{FE} \): 146 km/h

9. (Reserved)

10. Load factors:
    Normal aircraft: \( n = -1,52 \) to +3,8
     Utility aircraft: \( n = -1,76 \) to +4,4

11. Maximum Weights:
    Max. permissible takeoff mass:
    Normal aircraft 630 kg
    Utility aircraft 600 kg

12. Centre of Gravity Range:
    Normal aircraft
    Max. Forward: 1710 mm at 574 kg to
                  1760 mm at 630 kg
    Max. Aft: 1800 mm at 630 kg to
               1825 mm at 550 kg
    Utility aircraft
    Max. Forward: 1710 mm at 574 kg to
                  1732 mm at 600 kg
    Max. Aft: 1810 mm at 600 kg to
               1820 mm at 550 kg
    Linear change between the individual points

13. Datum:
    Reference plane: 1900 mm forward of mark (red circled rivet on both side-walls of the fuselage, 100 mm forward of hole centre of lower wing strut fitting)
Attitude: extended line from level marks (left side of fuselage) horizontal


15. Control surface deflections: Refer to Maintenance Manual

16. Minimum Flight Crew: 1 pilot

17. Maximum Passenger Seating Capacity: 1 passenger

18. Baggage/Cargo Compartments: Max. 20 kg in baggage/cargo compartment

19. Wheels and Tyres: Refer to Operator’s Handbook

20. (Reserved):

B.IV. Operating and Service Instructions

1. Manual for Operation:
   Flight Manual Bölkow Bo 208 C Junior, DVL/PfL-approved on 19 May 1965 including Revision 20 October 1965, page 3

2. Technical Manual:
   a) Operator’s Handbook Bölkow Bo 208 C Junior
   b) Maintenance Manual Bölkow Bo 208 C Junior
   d) Rolls Royce C 90 and O-200 Operating and Field Instructions

B.V. Notes:

1. Eligible Serial Numbers: from S/N 567 and up

ADMINISTRATIVE SECTION

I. Acronyms

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<tr>
<th>Acronym</th>
<th>Description</th>
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<td>CAR</td>
<td>Civil Aviation Regulations</td>
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<td>DVL/PfL</td>
<td>Deutsche Versuchsanstalt für Luftfahrt / Prüfstelle für Luftfahrzeug</td>
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<td>FAA</td>
<td>Federal Aviation Administration</td>
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<td>Luftfahrt-Bundesamt</td>
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<td>LSL</td>
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<tr>
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<tr>
<td>SAE</td>
<td>Society of Automotive Engineers</td>
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<td>TCDS</td>
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II. Type Certificate Holder Record

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<th>Day of Entry</th>
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<tr>
<td>26.06.1958</td>
<td>Bölkow Apparatebau GmbH</td>
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<td>01.04.1992</td>
<td>Messerschmitt-Bölkow-Blohm AG</td>
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III. Change Record

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