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. a) Type: Bölkow BO 207
   b) Model: Bölkow 207

2. Airworthiness Category: Normal

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

6. (Reserved)

7. Type Certification in Federal Republic of Germany by Luftfahrt-Bundesamt: 29 August 1961

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

A.II.  EASA Certification Basis

1. Airworthiness Requirements: CAR Part 3 dated 15 May 1956 plus Amendment 3-1 through 3-5

2. Environmental Standards: ICAO Annex 16, Vol. I; for details see TCDSN.A.553
A.III. Technical Characteristics and Operational Limitations

1. Description: Single-engine, cantilever low-wing aircraft, wood construction, tail wheel configuration

2. Equipment: Required equipment acc. to certification standard CAR Part 3
   Additionally: 1 stall warning

3. Dimensions: Wing Span: 10,81 m
   Length: 8,30 m
   Height: 2,25 m

4. Engine:
   4.1 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
   4.2 Type Certificate: for all: US E-286
   4.3 Limitations: Maximum speed 2700 rpm
                    Maximum continuous speed 2700 rpm

5. Propeller:
   5.1 Model: Propeller 1: Hartzell HC-92ZK-8D/8447A-12A
               Propeller 2: Sensenich M76EMM60 (76 inch)
               Propeller 3: Sensenich 76EM8060
   5.2 Type Certificate: Propeller 1: US P-892
                         Propeller 2 & 3: US 1P2
   5.3 Number of blades: 2
   5.4 Diameter: Propeller 1: 183 cm (72 inch)
                 Propeller 2 & 3: 193 cm (76 inch)
5.5 Sense of Rotation: Clockwise

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.

6. Fluids:
6.1 Fuel: Aviation fuel, min. 91/96 octane
6.2 Oil:
   - above +16°C SAE 50
   - from 0°C to +32°C SAE 40
   - from -18°C to +21°C SAE 30
   - below -12°C SAE 20

7. Fluid capacities:
7.1 Fuel: Max. fuel: 190 l
         Usable fuel quantity: 188 l
7.2 Oil: 7,6 l

8. Air Speeds:
Max. permissible speed $V_{NE}$: 340 km/h
Max. permissible:
   - Manoeuvring speed $V_A$: 220 km/h
   - Cruise speed $V_{NO}$: 265 km/h
   - Flaps extended $V_{FE}$: 160 km/h

9. (Reserved)

10. Load factors: $n = + 3,8$

11. Maximum Weights: Max. permissible:
    - Taxi mass 1200 kg
    - Take-off mass 1200 kg

12. Centre of Gravity Range:
Max. Forward: 2535 mm @ 1025 kg linear to 2640 mm @ 1200 kg
Max. Aft: 2720 mm
13. Datum: 1500 mm ahead of leading edge of firewall bulkhead
   Attitude: level mark on fuselage side horizontal


15. Control surface deflections: Refer to Maintenance Handbook

16. Minimum Flight Crew: 1 pilot

17. Maximum Passenger Seating Capacity: 3 passengers

18. Baggage/Cargo Compartments: max. 40 kg in baggage compartment

19. Wheels and Tyres: Refer to Maintenance Handbook

20. (Reserved):

A.IV. Operating and Service Instructions

1. Manual for Operation:
   Flight Manual Bölkow 207, DVL/PfL-approved July 1961
   (included in Operations Manual)

2. Technical Manual:
   a) Operations Manual Bölkow 207, date of issue August 1961
   b) Maintenance Handbook Bölkow 207, date of issue August 1961
   c) Lycoming Operator’s Manual, Model O-360 Series Aircraft Engines
   d) Hartzell Propeller Owner’s Manual No. 107B, FAA-approved

A.V. Notes:

1. Eligible Serial Numbers are not specified

2. Deleted, no longer applicable.
3. Certified for sailplane towing and towing of non-rigid tow-hook banners in accordance with the Flight Manual Supplement: Certification conditions for aerotow, DVL/PfL-certified (sheet 50a dated 5 November 1962, sheets 50b and 50c dated 30 December 1964).
SECTION B: **BÖLKOW 207T**

**B.I. General**

1. a) Type: Bölkow BO 207  
   b) Model: Bölkow 207T

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

6. (Reserved)

7. Type Certification in Federal Republic of Germany by Luftfahrt-Bundesamt: 10 September 1963

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

**B.II. EASA Certification Basis**

1. Airworthiness Requirements: CAR Part 3 dated 15 May 1956 plus Amendment 3-1 through 3-5

2. Environmental Standards: ICAO Annex 16, Vol. I; for details see TCDSN.A.553
B.III. Technical Characteristics and Operational Limitations

1. Description: Single-engine, cantilever low-wing aircraft, wood construction, tail wheel configuration
   Cabin ejection system (modification No. 20)
   Vertical stabiliser (modification No. 16 and 22)
   Oil throttle (modification No. 9)

2. Equipment: Required equipment acc. to certification standard CAR 3
   Additionally: 1 stall warning

3. Dimensions: Wing Span: 10,81 m
   Length: 8,30 m
   Height: 2,25 m

4. Engine:
   4.1 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
   4.2 Type Certificate: For all: US E-286
   4.3 Limitations: Maximum speed 2700 rpm
                    Maximum continuous speed 2700 rpm

5. Propeller:
   5.1 Model: Propeller 1: Hartzell HC-92ZK-8D/8447A-12A
              Propeller 2: Sensenich M76EMM60 (76 inch)
              Propeller 3: Sensenich 76EM8060
   5.2 Type Certificate: Propeller 1: US P-892
                         Propeller 2 & 3: US 1P2
   5.3 Number of blades: 2
5.4 Diameter: Propeller 1: 183 cm (72 inch)
                Propeller 2 & 3: 193 cm (76 inch)

5.5 Sense of Rotation: Clockwise

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.

6. Fluids:
6.1 Fuel: Aviation fuel, min. 91/96 octane

6.2 Oil:
- above +16°C SAE 50
- from 0°C to +32°C SAE 40
- from -18°C to +21°C SAE 30
- below -12°C SAE 20

7. Fluid capacities:
7.1 Fuel:
- Max. fuel: 190 l
- Usable fuel quantity: 188 l

7.2 Oil: 7,6 l

8. Air Speeds:
- Max. permissible speed $V_{NE}$: 340 km/h
- Max. permissible:
  - Manoeuvring speed $V_A$: 220 km/h
  - Cruise speed $V_{NO}$: 265 km/h
  - Flaps extended $V_{FE}$: 160 km/h

9. (Reserved)

10. Load factors:
- Normal: $n = + 3.8$
- Utility: $n = -1.76$ to +4.4
11. Maximum Weights:

<table>
<thead>
<tr>
<th></th>
<th>Normal aircraft</th>
<th>Utility aircraft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. permissible:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Taxi mass</td>
<td>1200 kg</td>
<td>1025 kg</td>
</tr>
<tr>
<td>- Take-off mass</td>
<td>1200 kg</td>
<td>1025 kg</td>
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</tbody>
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12. Centre of Gravity Range:

<table>
<thead>
<tr>
<th></th>
<th>Normal aircraft</th>
<th>Utility aircraft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Forward:</td>
<td>2535 mm @ 1025 kg linear to 2640 mm @ 1200 kg</td>
<td></td>
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<tr>
<td>Max. Aft:</td>
<td>2720 mm</td>
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13. Datum:

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<table>
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<tr>
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<tbody>
<tr>
<td>Max. Forward:</td>
<td>2535 mm</td>
</tr>
<tr>
<td>Max. Aft:</td>
<td>2650 mm</td>
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14. Datum:

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<tbody>
<tr>
<td>Attitude: level mark on fuselage side horizontal</td>
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15. Datum:

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<tbody>
<tr>
<td>1500 mm ahead of leading edge of firewall bulkhead</td>
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16. Datum:

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17. Datum:

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<td>Level mark on fuselage side horizontal</td>
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18. Datum:

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<tr>
<td>Level mark on fuselage side horizontal</td>
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19. Datum:

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<tbody>
<tr>
<td>Level mark on fuselage side horizontal</td>
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</tbody>
</table>

20. (Reserved):

B.IV. Operating and Service Instructions

1. Manual for Operation
Flight Manual Bölkow BO 207, DVL/PfL-approved July 1961, with supplement:
Flight Manual Bölkow BO 207, DVL/PfL-approved July 1963
(included in Operations Manual)

2. Technical Manual:
   a) Operations Manual Bölkow 207, date of issue August 1961
   b) Maintenance Handbook Bölkow 207, date of issue August 1961
   c) Lycoming Operator's Manual, Model O-360 Series Aircraft Engines
   d) Hartzell Propeller Owner's Manual No. 107B, FAA-approved

B.V. Notes:

1. Eligible Serial Numbers: Not specified

2. Certified for sailplane towing and towing of non-rigid tow-hook banners in accordance with the Flight Manual Supplement: Certification conditions for aerotow, DVL/PfL-certified (sheet 50a dated 5 November 1962, sheets 50b and 50c dated 30 December 1964).
I. Acronyms
CAR  Civil Aviation Regulations
DVL/PfL  Deutsche Versuchsanstalt für Luftfahrt / Prüfstelle für Luftfahrtgerät
FAA  Federal Aviation Administration
LBA  Luftfahrt-Bundesamt
LSL  Lärmschutzforderungen für Luftfahrzeuge
N/A  Not applicable
SAE  Society of Automotive Engineers
TCDS  Type Certificate Data Sheet

II. Type Certificate Holder Record

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<th>Day of Entry</th>
<th>Company name (Legal Entity)</th>
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<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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<td>Airbus Defence and Space GmbH</td>
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III. Change Record

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<td>22/06/2015</td>
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<td>Type Certificate Holder Record revised</td>
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<tr>
<td>3</td>
<td>13/11/2018</td>
<td>Change of TC holder address</td>
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