Issue: 03; Date: 04 December 2018



TYPE-CERTIFICATE DATA SHEET

NO. EASA.A.433

for HB 23/2400

Type Certificate Holder HB-Flugtechnik

HB-Flugtechnick GmbH Dr. Adolf Schärfstraße 42 A-4053 Haid Austria

For variants:

HB 23/2400 HB 23/2400 SP HB 23/2400 Scanliner



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Change Record



Issue: 03; Date: 04 December 2018

SECTION 1 HB 23/2400

A.I. General

1. a) Type: HB 23/2400

b) Variant: ---

2. Airworthiness Category:

Utility

3. Type Certificate Holder:

HB-Flugtechnik GmbH Dr. Adolf Schärfstraße 42

A-4053 Haid Austria

www.hb-flugtechnik.at

4. Manufacturer:

HB Aircraft Industries AG Luftfahrzeug Aktiengesellschaft

A-4053 Haid Austria

HB Brditschka GmbH & CoKG

A-4053 Haid Austria

5. Certification Application Date: ---

6. BAZ/ACG Certification Date : November 1985 see Note 6

7. The EASA Type Certificate replaces the Austrian Type Certificate SF 10/85

8. EASA Certification Date: ---

A.II. Certification Basis

 Reference Date for determining the applicable requirements:

2. (Reserved)

3. (Reserved)

4. Certification Basis: JAR-22, Change -, issued 15-Mar-1982

5. Airworthiness Requirements: JAR-22, Change -, issued 15-Mar-1982

6. Requirements elected to comply: None



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7. Special Conditions: None

8. Exemptions: None

9. Equivalent Safety Findings: BAZ approved 6285-2/31-85 dated 20.12.1985

10. Environmental Standards: Zivilluftfahrzeug-Lärmzulässigkeitverordnung

BGBI. 700/1986 and 738/1993

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing Set and following approved Design Changes (ÄM

System)

2. Description: Single engine, two-seated high wing airplane, wooden

wing/steel tube fuselage construction, T-tail, side by side seating configuration, fixed tri gear, air brakes on upper

wing surface and pusher propeller

3. Equipment: Minimum Equipment:

1 airspeed indicator (range up to 250 km/h) 1 altimeter with mbar barometric dial 1 magnetic compass with deviation table

1 RPM indicator1 running time meter1 oil pressure gauge1 oil temperature gauge

1 Voltmeter

1 fuel pressure indicator2 fuel quantity gauge1 stall warning indicator

1 at least 4-point harness for each seat

1 Masterwitch

1 Currentprotection (circuit protection)

1 Generator and 1 Battery

4. Dimensions:

Span16,4 mLength8,0 mHeight2,45 mWing Area $19,067 \text{ m}^2$

5. Engines: VW-HB-2400 G or G/2 (see Note 5)

Engine Type Certificate Data Sheet: ACG 4/82

5.1 Engine Limits: Max take-off rotational speed 4000 r.p.m.

Max continuous rotational speed 3600 r.p.m

For power-plants limits refer to Flight Manual,



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6. (Reserved)

7. Propellers: 1 Hoffmann HO 14 C -172 130 LD or

Propeller Type Certificate Data Sheet: LBA 32.110/1

Reduction Gearing Ratio 1:1,55 +- 5%

2 Mühlbauer MT 172 LD 130-SC or

Propeller Type Certificate Data Sheet: EASA P.006

Reduction Gearing Ratio 1:1,55 +- 5%

3 Mühlbauer MT 172 LD 145-2C in front with

MT

167 LD 145-2C behind mounted 90° offset

Propeller Type Certificate Data Sheet: LBA 32.110/12 Reduction Gearing Ratio 1:1,94 +- 5% (see Note 3)

7.1 Settings Low pitch setting/ Static RPM: 3500+/- 200

8. Fluids:

8.1 Fuel: AVGAS 100 LL or

Automotive Gasoline,

Leaded/unleaded min ROZ 98

(see Note 4)

8.2 Oil: quality automotive oils

Castrol GTX2 or any HD SAE 15W40

(see Flight Manual)

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 76 (2x 38) liters

Usable: 75 liters

Optional Fuel tank Total: 100 (2x 50) liters

Usable: 99 liters

9.2 Oil: Maximum: 4,0 liters

Minimum: 3,0 liters

10. Air Speeds:

Design Manoeuvring Speed v_A: 173 km/h

Maximum rough air speed Vra): 173 km/h.

Never exceed speed v_{NE}: 200 km/h

11. Maximum Operating Altitude: ---

12. Allweather Capability: Day/Night-VFR

13. Maximum Masses:

Take-off 760 kg
Maximum mass of non lifting parts 550 kg



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14. Centre of Gravity Range:

Forward limit 2,360 m behind Datum Rear limit: 2,540 m behind Datum

15. Datum: 2,00 m in front of wing leading edge at root rib 2

16. (reserved)

17. Levelling Means: top of fuselage aft of propeller horizontal

18. Minimum Flight Crew: 1 (Pilot)

Maximum Passenger Seating Capacity:1

20. (Reserved)

21. Baggage / Cargo Compartments

Behind Seats 10 kg

22. Wheels and Tyres

Main/Tail Wheel Tyre Size For approved Types and rating

see AMM

A.IV. Operating and Service Instructions

Airplane Flight Manual (AFM) Airplane Flight Manual HB 23 Serie, Issue Nov. 2018,

EASA approved (German Version) see Note 7

Airplane Maintenance Manual (AMM)

(incl. Airworthiness Limitations) Maintenance Manual, Issue January 1986,

(German Version)

Engine Manual – VW-HB-2400 G/2, Issue September 1085

or later approved Issue

Hoffmann, Operation and Maintenance Manual for the HOCO propeller, latest Issue or Mt Propeller, Installation

and Operating manual E-112 latest issue

Service Informations and Service Bulletins
All Master Manuals are issued in German Language only

A.V. Notes

- 1. Only industrial manufacturing is permitted.
- 2. Glider and Banner towing is approved if the following additional equipment must be installed: 1 cylinder head temperature gauge



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- 1 Tow indicator in the instrument panel
- 1 coupling type Tost E75/E85
- 1 mirror
- 3. The modification to the four blade propeller assembly and modification of the reduction gearing is approved with TM HB-23/25/96
- 4. Use of unleaded automotive fuel SUPER PLUS 98 EN 228 (ÖNorm C1100), min. ROZ 98, in accordance with TM/HB/23/23/93, latest issue, with max 5% Ethanol/Methanol is permitted
- 5. Initial Certification carried out by the Austrian Aviation Authority Bundesamt für Zivilluftfahrt renamed to Austro Control
- 6. The certification applies to SNo. 23.005 up to 23.048 inclusive.
- 7. Flight Manual HB 23/2400 issued January 1986 has been replaced by an HB 23 Series flight manual valid for all variants.
- 8. Night VFR has been initially approved within the Austrian national type certification. Additional equipment in accordance to flight manual supplement E must be installed.

lssue: 03; Date: 04 December 2018

SECTION 2HB 23/2400 SP

B.I. General

1. a) Type: HB 23/2400 b) Variant: HB 23/2400 SP

2. Airworthiness Category:

Utility

3. Type Certificate Holder:

HB-Flugtechnik GmbH Dr. Adolf Schärfstraße 42

A-4053 Haid Austria

www.hb-flugtechnik.at

4. Manufacturer:

HB Aircraft Industries AG Luftfahrzeug Aktiengesellschaft

A-4053 Haid Austria

5. Certification Application Date: ---

6. BAZ/ACG Certification Date : Nov 1985 see Note 4,5

7. The EASA Type Certificate replaces the Austrian Type Certificate SF 10/85

8. EASA Certification Date: ---

B.II. Certification Basis

 Reference Date for determining the applicable requirements:

2. (Reserved)

3. (Reserved)

4. Certification Basis: JAR-22, Change 4, 7.Mai 1984

5. Airworthiness Requirements: JAR-22, Change 4, 7.Mai 1984

6. Requirements elected to comply: None

7. Special Conditions: None

8. Exemptions: None



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9. Equivalent Safety Findings: BAZ approved 6285-2/31-85 dated 20.12.1985

10. Environmental Standards: Zivilluftfahrzeug-Lärmzulässigkeitverordnung

BGBI. 700/1986 and 738/1993

B.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing Set and following approved Design Changes (ÄM

System)

2. Description: Single engine, two-seated high wing airplane, wooden

wing/steel tube fuselage construction, T-tail, side by side seating configuration, fixed tri gear, air brakes on upper wing surface, pusher propeller cowl flaps and wheel

fairings (see Note 10)

3. Equipment: Minimum Equipment:

1 airspeed indicator (range up to 250 km/h)1 altimeter with mbar barometric dial1 magnetic compass with deviation table

1 RPM indicator1 running time meter1 oil pressure gauge1 oil temperature gauge

1 Voltmeter

1 fuel pressure indicator2 fuel quantity gauge1 stall warning indicator

1 at least 4-point harness for each seat

1 Masterwitch

1 Currentprotection (circuit protection)

1 Generator and 1 Battery

1 optical and acoustical warning for closed cowl flaps

4. Dimensions:

5. Engines: VW-HB-2400 G/2

Engine Type Certificate Data Sheet: ACG TW 4/82

5.1 Engine Limits: Max take-off rotational speed 4000 r.p.m.

Max continuous rotational speed 3600 r.p.m

For power-plants limits refer to Flight Manual,

6. (Reserved)

7. Propellers: (see Note 10) 1 Hoffmann HO 14 C -172 130 LD or



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Propeller Type Certificate Data Sheet: LBA 32.110/1

Reduction Gearing Ratio 1:1,55 +- 5%

2 Mühlbauer MT 172 LD 130-SC or

Propeller Type Certificate Data Sheet: EASA.P.006

Reduction Gearing Ratio 1:1,55 +- 5%

3 Mühlbauer MT 172 LD 145-2C in front with MT

167 LD 145-2C behind mounted 90° offset

Propeller Type Certificate Data Sheet: LBA 32.110/12 Reduction Gearing Ratio 1:1,94 +- 5% (see Note 3)

7.2 Settings Low pitch setting/ Static RPM: 3500+/- 200

8. Fluids:

8.1 Fuel: AVGAS 100 LL or

Automotive Gasoline,

Leaded/unleaded min ROZ 98

(see Note 4)

8.2 Oil: quality automotive oils

Castrol GTX 2 or any HD SAE 15W40

(see Flight Manual)

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 76 (2x 38) liters

Usable: 75 liters

Optional Fuel tank Total: 100 (2x 50) liters

Usable: 99 liters

9.2 Oil: Maximum: 4,0 liters

Minimum: 3,0 liters

10. Air Speeds:

Design Manoeuvring Speed v_A: 173 km/h

Maximum rough air speed Vra): 173 km/h.

Never exceed speed v_{NE}: 200 km/h

11. Maximum Operating Altitude: ---

12. Allweather Capability: Day-VFR

13. Maximum Masses:

Take-off 760 kg
Maximum mass of non lifting parts 550 kg

14. Centre of Gravity Range:

Forward limit 2,360 m behind Datum Rear limit: 2,540 m behind Datum



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15. Datum: 2,00 m in front of wing leading edge at root rib 2

16. (reserved)

17. Levelling Means: top of fuselage aft of propeller horizontal

18. Minimum Flight Crew: 1 (Pilot)

Maximum Passenger Seating Capacity:

20. (Reserved)

21. Baggage / Cargo Compartments

Behind Seats 10 kg

22. Wheels and Tyres

Main/Tail Wheel Tyre Size For approved Types and rating, see AMM

B.IV. Operating and Service Instructions

Airplane Flight Manual (AFM) Airplane Flight Manual HB 23 Serie, Issue Nov. 2018,

EASA approved (German Version) see Note 8

Airplane Maintenance Manual (AMM)

(incl. Airworthiness Limitations) Maintenance Manual HB 23/2400-SP, Issued Nov. 1988,

(German Version)

Engine Manual - VW-HB-2400 G/2, Issue September 1985

or later approved Issue

Hoffmann, Operation and Maintenance Manual for the HOCO propeller, latest Issue or Mt Propeller, Installation

and Operating manual E-112 latest issue

Service Informations and Service Bulletins
All Master Manuals are issued in German Language only

B.V. Notes

- 1. Only industrial manufacturing is permitted.
- 2. Glider and Banner towing is approved if, the following additional equipment must be installed:
 - 1 cylinder head temperature gauge
 - 1 Tow indicator in the instrument panel
 - 1 coupling type Tost E75/E85
 - 1 mirror
- 3. The modification to the four blade propeller assembly and modification of the reduction gearing is approved with TM HB-23/23/93
- 4. Use of unleaded automotive fuel SUPER PLUS 98 EN 228 (ÖNorm C1100), min. ROZ 98, in accordance with TM/HB/23/23/93, latest issue, with max 5% Ethanol/Methanol is permitted



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- 5. Initial Certification carried out by the Austrian Aviation Authority Bundesamt für Zivilluftfahrt renamed to Austro Control
- 6. The certification applies to Sno. 23.040 up to 23.048 inclusive.

The conversion from model HB 23/2400 into variant HB 23/2400 SP is approved with TM 23/12/88, converted aircraft are identified with "U" after the Serial Number on the data plate.

- 7. The variant HB 23/2400 SP includes several modifications to improve the sailplane performance, the initial approval of the automatic feathering propeller HB-SVP-3E 170-160 LD is withdrawn, the Propeller Type certificate has bee revoked. The model HB 23/2400 SP conforms to BAZ approved equivalent level of safety finding 6285-2/31-85 dated 20.12.1985
- 8. Flight Manual HB 23/2400 SP issued Nov 1988 has been replaced by an HB 23 Series flight manual valid for all variants.
- 9. Night VFR has been initially approved within the Austrian national type certification. Additional equipment in accordance to flight manual supplement E must be installed.

lssue: 03; Date: 04 December 2018

SECTION 3 HB 23/2400 Scanliner

C.I. General

1. a) Type: HB 23/2400

b) Variant: HB 23/2400 Scanliner

2. Airworthiness Category:

Utility

3. Type Certificate Holder:

HB-Flugtechnik GmbH Dr. Adolf Schärfstraße 42

A-4053 Haid Austria

www.hb-flugtechnik.at

4. Manufacturer:

HB Brditschka GmbH & Co KG

Fluhzeugbau A-4053 Haid Austria

5. Certification Application Date : ---

6. BAZ/ACG Certification Date : Nov 1985 see Note 6

7. The EASA Type Certificate replaces the Austrian Type Certificate SF 11/86

8. EASA Certification Date: ---

C.II. Certification Basis

 Reference Date for determining the applicable requirements: --

2. (Reserved)

3. (Reserved)

4. Certification Basis: JAR-22, Change -, issued 15-Mar-1982

5. Airworthiness Requirements: JAR-22, Change -, issued 15-Mar-1982

6. Requirements elected to comply: None

7. Special Conditions: None



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8. Exemptions: None

9. Equivalent Safety Findings: BAZ approved 6285-2/31-85 dated 20.12.1985

10. Environmental Standards: Zivilluftfahrzeug-Lärmzulässigkeitverordnung

BGBI. 700/1986 and 738/1993

C.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing Set and following approved Design Changes (ÄM

– System)

2. Description: Single engine, two-seated high wing airplane, wooden

wing/steel tube fuselage construction, T-tail, side by side seating configuration, fixed tri gear, air brakes on upper wing surface, pusher propeller and full view bubble canopy

3. Equipment: Minimum Equipment:

1 airspeed indicator (range up to 250 km/h)1 altimeter with mbar barometric dial1 magnetic compass with deviation table

1 RPM indicator 1 running time meter 1 oil pressure gauge 1 oil temperature gauge

1 Voltmeter

1 fuel pressure indicator2 fuel quantity gauge1 stall warning indicator

1 at least 4-point harness for each seat

1 Masterwitch

1 Currentprotection (circuit protection)

1 Generator and 1 Battery

4. Dimensions:

 Span
 16,40 m

 Length
 7,35 m

 Height
 2,45 m

 Wing Area
 19,067 m²

5. Engines: VW-HB-2400 G/2

Engine Type Certificate Data Sheet: ACG TW 4/82

5.1 Engine Limits: Max take-off rotational speed 4000 r.p.m.

Max continuous rotational speed 3600 r.p.m

For power-plants limits refer to Flight Manual,

6. (Reserved)



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7. Propellers: 1 Hoffmann HO 14 C -172 130 LD or

Propeller Type Certificate Data Sheet: LBA 32.110/1

Reduction Gearing Ratio 1:1,55 +- 5%

2 Mühlbauer MT 172 LD 130-SC or

Propeller Type Certificate Data Sheet: EASA P.006

Reduction Gearing Ratio 1:1,55 +- 5%

3 Mühlbauer MT 172 LD 145-2C in front with

 MT

167 LD 145-2C behind mounted 90° offset

Propeller Type Certificate Data Sheet: LBA 32.110/12 Reduction Gearing Ratio 1:1,94 +- 5% (see Note 3)

7.3 Settings Low pitch setting/ Static RPM: 3500+/- 200

8. Fluids:

8.1 Fuel: AVGAS 100 LL or

Automotive Gasoline,

Leaded/unleaded min ROZ 98

(see Note 4)

8.2 Oil: quality automotive oils

Castrol GTX2 or any HD SAE 15W40

(see Flight Manual)

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 76 (2x 38) liters

Usable: 75 liters

Optional Fuel tank Total: 100 (2x 50) liters

Usable: 99 liters

9.2 Oil: Maximum: 4,0 liters

Minimum: 3,0 liters

10. Air Speeds:

Design Manoeuvring Speed v_A: 173 km/h

Maximum rough air speed Vra): 173 km/h.

Never exceed speed v_{NE}: 200 km/h

11. Maximum Operating Altitude: ---

12. Allweather Capability: Day/Night-VFR

13. Maximum Masses:

Take-off 760 kg
Maximum mass of non lifting parts 550 kg

14. Centre of Gravity Range:

Forward limit 2,360 m behind Datum Rear limit: 2,540 m behind Datum



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15. Datum: 2,00 m in front of wing leading edge at root rib 2

16. (reserved)

17. Levelling Means: top of fuselage aft of propeller horizontal

18. Minimum Flight Crew: 1 (Pilot)

19. Maximum Passenger Seating Capacity: 1

20. (Reserved)

21. Baggage / Cargo Compartments

Behind Seats 10 kg

22. Wheels and Tyres

Main/Tail Wheel Tyre Size For approved Types and rating

see AMM

C.IV. Operating and Service Instructions

Airplane Flight Manual (AFM) Airplane Flight Manual HB 23 Serie, Issue Nov. 2018,

EASA approved (German Version) see Note 8

Airplane Maintenance Manual (AMM)

(incl. Airworthiness Limitations) Maintenance Manual, Issue November 1985,

(German Version)

Engine Manual – VW-HB-2400 G/2, Issue September 1085

or later approved Issue

Hoffmann, Operation and Maintenance Manual for the HOCO propeller, latest Issue or Mt Propeller, Installation

and Operating manual E-112 latest issue

Service Informations and Service Bulletins
All Master Manuals are issued in German Language only

C.V. Notes

- 1. Only industrial manufacturing is permitted.
- 2. Glider and Banner towing is approved if, the following additional equipment must be installed:
 - 1 cylinder head temperature gauge
 - 1 Tow indicator in the instrument panel
 - 1 coupling type Tost E75/E85
 - 1 mirror
- 3. The modification to the four blade propeller assembly and modification of the reduction gearing is approved with TM HB-23/25/96



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- 4. Use of unleaded automotive fuel SUPER PLUS 98 EN 228 (Önorm C1100), min. ROZ 98, in accordance with TM/HB/23/23/93, latest issue, with max 5% Ethanol/Methanol is permitted
- 5. Initial Certification carried out by the Austrian Aviation Authority Bundesamt für Zivilluftfahrt renamed to Austro Control
- 6. The certification applies to Sno. 23.011-S-1 up to S-10. The "S" indicates the variant Scanliner with the running
- 7. The conversion from variant HB 23/2400 to HB 23/2400 Scanliner is approved with TM-HB-23/30/15. The original HB 23/2400 Sno. Remains unchanged. A supplemental data plate is installed.
- 8. Flight Manual HB 23/2400 SP issued Nov 1985 has been replaced by an HB 23 Series flight manual valid for all variants.
- 9. Night VFR has been initially approved within the Austrian national type certification. Additional equipment in accordance to flight manual supplement E must be installed.

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Change Record

Issue	Date	Changes
Issue 1	07.Jan.2010	Transfer from ACG TCDS SF 10/85 issue 6, SF11/86 issue 3 and SF 14/87 issue 2 to
		the EASA Type Design
Issue 2	09.Jun 2017	Note for conversion from variant HB 23/2400 to HB 23/2400 Scanliner with TM-HB-
		23/30/15 added (EASA project no 0010041403-001), removed Variant HB 23/2400
		V2 as the only eligible Sno. 23002 was destroyed, editorial changes
Issue 3	4.Dec 2018	EASA Project 0060061527
		Flight Manual update and issuance of a HB 23 Series manual including
		revised runup procedure and caution for engine rough running, Night VFR
		Supplement and fuel specification, editorial changes
		A.III.12, A.IV, A Note 4,7,8
		B.III.12, B.IV, A Note 4,8,9
		C.III.12, C.IV, C Note 4,8,9