

# **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**



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### SECTION 1 HB 23/2400

#### A.I. General

	1.	a) Type:	HB 23/2400
		b) Variant:	
	2.	Airworthiness Category:	I Intita
			Utility
	3.	Type Certificate Holder:	HB-Flugtechnik GmbH
			Dr. Adolf Schärfstraße 42
			A-4053 Haid Austria
			www.hb-flugtechnik.at
	4.	Manufacturer:	
	ч.		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	pe Certificate SF 10/85
	8.	EASA Certification Date:	
<u>A.II</u>	•	Certification Basis	
	1.	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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 Exemptions: None
 Equivalent Safety Findings: BAZ approved 6285-2/31-85 dated 20.12.1985
 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 indicator 1 running time meter 1 oil pressure gauge 1 oil temperature gauge 1 voltmeter 1 fuel pressure indicator 2 fuel quantity gauge 1 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	16,4 m
	Length	8,0 m
	Height	2,45 m
	Wing Area	19,067 m²
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,

#### 6. (Reserved)



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7.	Propellers:	Propeller Ty	HO 14 C -172 130 LD or pe Certificate Data Sheet: LBA 32.110/1 earing Ratio 1:1,55 +- 5%
		Propeller Ty	er MT 172 LD 130-SC or pe Certificate Data Sheet: EASA P.006 earing Ratio 1:1,55 +- 5%
		167 LD 145- Propeller Ty	er MT 172 LD 145-2C in front with MT 2C behind mounted 90° offset pe Certificate Data Sheet: LBA 32.110/12 earing Ratio 1:1,94 +- 5% (see Note 3)
	7.1 Settings	Low pitch se	etting/ Static RPM: 3500+/- 200
8.	Fluids: 8.1 Fuel:	AVGAS 100 Automotive Leaded/unle (see Note 4)	Gasoline, eaded min ROZ 98
	8.2 Oil:	quality auto Castrol GTX2 (see Flight N	2 or any HD SAE 15W40
9.	Fluid capacities:		
	9.1 Fuel: Standard Fuel Tank	Total: Usable:	76 (2x 38) liters 75 liters
	Optional Fuel tank	Total: Usable:	100 (2x 50) liters 99 liters
	9.2 Oil:	Maximum: Minimum:	4,0 liters 3,0 liters
10.	Air Speeds: Design Manoeuvring Speed v₄:		173 km/h
	Maximum rough air speed Vra):		173 km/h.
	Never exceed speed v <sub>NE</sub> :		200 km/h
11.	Maximum Operating Altitude:		
12.	Allweather Capability:	Day/Night-V	′FR
13.	Maximum Masses: Take-off Maximum mass of non lifting parts		760 kg 550 kg
	Centre of Gravity Range: Forward limit Rear limit: CERT 00048-001 © European Union Aviation Safety Age		2,360 m behind Datum 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

#### 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



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#### 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
  - 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.



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Utility

#### SECTION 2HB 23/2400 SP

#### B.I. General

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

- 2. Airworthiness Category:
- 3. Type Certificate Holder:

HB-Flugtechnik GmbH Dr. Adolf Schärfstraße 42 A-4053 Haid Austria www.hb-flugtechnik.at

HB Aircraft Industries AG Luftfahrzeug Aktiengesellschaft

A-4053 Haid Austria

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4. Manufacturer:

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

- 1. Reference Date for determining the applicable requirements: ---
- 2. (Reserved)
- 3. (Reserved)
- 4. Certification Basis:
- 5. Airworthiness Requirements:
- 6. Requirements elected to comply:

9. Equivalent Safety Findings:

- 7. Special Conditions:
- 8. Exemptions:
- BAZ approved 6285-2/31-85 dated 20.12.1985

JAR-22, Change 4, 7. Mai 1984

JAR-22, Change 4, 7. Mai 1984

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None

None

None

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 dial 1 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 indicator 2 fuel quantity gauge 1 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
<ul> <li>Dimensions:</li> <li>Span</li> <li>Length</li> <li>Height</li> <li>Wing Area</li> </ul>	16,40 m 8,00 m 2,45 m 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 speed4000 r.p.m.Max continuous rotational speed3600 r.p.mFor power-plants limits refer to Flight Manual,
6. (Reserved)	
7. Propellers: (see Note 10)	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%



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	Propeller Typ Reduction G 3 Mühlbaue 167 LD 145-2 Propeller Typ	r MT 172 LD 130-SC be Certificate Data She earing Ratio 1:1,55 +- r MT 172 LD 145-2C ir 2C behind mounted 90 be Certificate Data She earing Ratio 1:1,94 +-	5% n front with 0° offset eet: LBA 32.110/12	MT
7.2 Settings	Low pitch se	tting/ Static RPM:	3500+/- 200	
8. Fluids: 8.1 Fuel:	AVGAS 100 L Automotive Leaded/unle (see Note 4)	-		
8.2 Oil:	quality autor Castrol GTX 2 (see Flight N	2 or any HD SAE 15W4	0	
9. Fluid capacities:				
9.1 Fuel: Standard Fuel Tank	Total: Usable:	76 (2x 38) liters 75 liters		
Optional Fuel tank	Total: Usable:	100 (2x 50) liters 99 liters		
9.2 Oil:	Maximum: Minimum:	4,0 liters 3,0 liters		
10. Air Speeds:				
Design Manoeuvring Speed v <sub>A</sub> :		173 km/	h	
Maximum rough air speed Vra):		173 km/	h.	
Never exceed speed v <sub>NE</sub> :		200 km/	h	
11. Maximum Operating Altitude:				
12. Allweather Capability:	Day/Night V	FR		
13. Maximum Masses:				
Take-off		760 kg		
Maximum mass of non lifting parts		550 kg		
14. Centre of Gravity Range: Forward limit Rear limit:		2,360 m behind 2,540 m behind		
15. Datum: 16. (reserved)	2,00 m in fro	nt of wing leading edg	ge at root rib 2	

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17. Levelling Means:	top of fuselage aft of propeller horizontal
18. Minimum Flight Crew:	1 (Pilot)
19. Maximum Passenger Seating Capacity: 20. (Reserved)	1
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>B.IV.</b> 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
- 5. Initial Certification carried out by the Austrian Aviation Authority Bundesamt für Zivilluftfahrt renamed to Austro Control



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6. The certification applies to S/N 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.



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#### SECTION 3 HB 23/2400 Scanliner

#### C.I. General

1.	a)	Туре:	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

HB Brditschka GmbH & Co KG

JAR-22, Change -, issued 15-Mar-1982

4. Manufacturer:

Fluhzeugbau A-4053 Haid Austria

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- 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

- 1. Reference Date for determining the applicable requirements:
- 2. (Reserved)
- 3. (Reserved)

8. Exemptions:

- 4. Certification Basis:
- 5. Airworthiness Requirements: JAR-22, Change -, issued 15-Mar-1982
- 6. Requirements elected to comply: None
- 7. Special Conditions: None



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None

- 9. Equivalent Safety Findings:
- 10. Environmental Standards:

BAZ approved 6285-2/31-85 dated 20.12.1985

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 dial 1 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 indicator 2 fuel quantity gauge 1 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-H	1B-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:	1 Hoffmann HO 14 C -172 130 LD or Propeller Type Certificate Data Sheet: LBA 32.110/1

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		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. Fluic 8.1	ds: 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)
0 Eluio	capacities:	
	Fuel: Standard Fuel Tank	Total:76 (2x 38) litersUsable:75 liters
	Optional Fuel tank	Total:100 (2x 50) litersUsable:99 liters
9.2	Oil:	Maximum: 4,0 liters Minimum: 3,0 liters
10. Air S	peeds:	
	ign Manoeuvring Speed v <sub>A</sub> :	173 km/h
Max	imum rough air speed Vra):	173 km/h.
Neve	er exceed speed v <sub>NE</sub> :	200 km/h
11. Max	imum Operating Altitude:	
12. Allw	eather Capability:	Day/Night-VFR
13. Max	imum Masses:	
	Take-off	760 kg
	Maximum mass of non lifting parts	s 550 kg
14. Cent	re of Gravity Range: Forward limit Rear limit:	2,360 m behind Datum 2,540 m behind Datum
15. Datu 16. (res		2,00 m in front of wing leading edge at root rib 2
		inty Agapey 2021 All rights recorded ISO0001 Cartified Page 15 of 18

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17. Levelling Means:	top of fuselage aft of propeller horizontal	
18. Minimum Flight Crew:	1 (Pilot)	
19. Maximum Passenger Seating Capacity: 20. (Reserved)	1	
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
- 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. 23.011-S-1 up to S-10. The "S" indicates the variant Scanliner with the running Sno.
- 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
Issue 4	3. March 2021	Administrative correction to include Night VFR for the HB-23/2400 SP



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