

# *European Aviation Safety Agency*

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**EASA**

**TYPE-CERTIFICATE  
DATA SHEET**

**HB 23/2400**

**Type Certificate Holder:  
HB-Flugtechnik**

HB-Flugtechnik 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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## **SECTION 1 HB 23/2400**

### **A.I. General**

- |  |  |                   |
|--|--|-------------------|
| Data Sheet No.: A.433  | Issue: 01  | Date: 07-Jan-2010 |
| 1. a) Type:  | HB 23/2400   |                   |
| b) Variant:  | ---  |                   |
| 2. Airworthiness Category:   | Utility  |                   |
| 3. Type Certificate Holder:  | HB-Flugtechnik GmbH<br>Dr. Adolf Schärfstraße 42<br>A-4053 Haid<br>Austria<br><a href="http://www.hb-flugtechnik.at">www.hb-flugtechnik.at</a> |                   |
| 4. Manufacturer:   | HB Aircraft Industries AG<br>Luftfahrzeug Aktiengesellschaft<br>A-4053 Haid<br>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**

- |  |   |
|--|---|
| 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  |
| 8. Exemptions:   | None  |
| 9. Equivalent Safety Findings:                                 | BAZ approved 6285-2/31-85 dated 20.12.1985                                  |
| 10. Environmental Standards:                                   | Zivilluftfahrzeug-Lärmzulässigkeitverordnung<br>BGBl. 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  
1 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 m<sup>2</sup>*
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)
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 $V_{ra}$ :	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
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:		2
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 23/2400, Issue January 1986, BAZ approved (German Version)
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
  - 1 Tow indicator in the instrument panel
  - 1 coupling type Tost E75
  - 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 ÖNorm C1100, min. ROZ 98, in accordance with TM/HB/23/23/93, latest issue, 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.

## **SECTION 2 HB 23/2400 SP**

### **B.I. General**

Data Sheet No.: A.433	Issue: 01	Date: 07-Jan-2010
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 <a href="http://www.hb-flugtechnik.at">www.hb-flugtechnik.at</a>	
4. Manufacturer:	HB Aircraft Industries AG Luftfahrzeug Aktiengesellschaft A-4053 Haid Austria	
5. Certification Application Date:	---	
9. BAZ/ACG Certification Date :	Nov 1985 see Note 6	
10. The EASA Type Certificate replaces the Austrian Type Certificate SF 10/85		
11. EASA Certification Date:	---	

### **B.II. Certification Basis**

1. 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
9. Equivalent Safety Findings:	BAZ approved 6285-2/31-85 dated 20.12.1985
10. Environmental Standards:	Zivilluftfahrzeug-Lärmzulässigkeitverordnung BGBl. 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  
1 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
5. Dimensions:  
Span *16,40 m*  
Length *8,00 m*  
Height *2,45 m*  
Wing Area *19,067 m<sup>2</sup>*
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  
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



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 23/2400 SP, Issued Nov. 1988, BAZ approved (German Version)
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
  - 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 ÖNorm C1100, min. ROZ 98, in accordance with TM/HB/23/23/93, latest issue, is permitted
- 7) Initial Certification carried out by the Austrian Aviation Authority – Bundesamt für Zivilluftfahrt renamed to Austro Control
- 8) 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.
- 9) 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 been revoked. The model HB 23/2400 SP conforms to BAZ approved equivalent level of safety finding 6285-2/31-85 dated 20.12.1985

### **SECTION 3 HB 23/2400 Scanliner**

#### **C.I. General**

Data Sheet No.: A.433	Issue: 01	Date: 07-Jan-2010
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 <a href="http://www.hb-flugtechnik.at">www.hb-flugtechnik.at</a>	
4. Manufacturer:	HB Brditschka GmbH & Co KG Fluhzeugbau A-4053 Haid Austria	
5. Certification Application Date:	---	
12. BAZ/ACG Certification Date :	Nov 1985 see Note 6	
13. The EASA Type Certificate replaces the Austrian Type Certificate SF 11/86		
14. EASA Certification Date:	---	

#### **C.II. 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
8. Exemptions:	None
9. Equivalent Safety Findings:	BAZ approved 6285-2/31-85 dated 20.12.1985
10. Environmental Standards:	Zivilluftfahrzeug-Lärmzulässigkeitverordnung BGBl. 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
6. Dimensions:  
Span *16,40 m*  
Length *8,00 m*  
Height *2,45 m*  
Wing Area *19,067 m<sup>2</sup>*
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:  
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
14. 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)
15. Fluid capacities:		
9.1 Fuel:	Standard Fuel Tank	Total: 76 (2x 38) liters Usable: 75 liters
9.2 Oil:		Maximum: 4,0 liters Minimum: 3,0 liters
16. Air Speeds:		
	Design Manoeuvring Speed $v_A$ :	173 km/h
	Maximum rough air speed $V_{ra}$ :	173 km/h.
	Never exceed speed $v_{NE}$ :	200 km/h
11. Maximum Operating Altitude:		---
12. Allweather Capability:		Day-VFR
15. Maximum Masses:		
	Take-off	760 kg
	Maximum mass of non lifting parts	550 kg
16. 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
20. (reserved)		
21. Levelling Means:		top of fuselage aft of propeller horizontal
18. Minimum Flight Crew:		1 (Pilot)
19. Maximum Passenger Seating Capacity:		2
20. (Reserved)		
23. 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 23/2400 Scanliner,  
Issue Nov, 1985,BAZ approved (German Version)

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
  - 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 ÖNorm C1100, min. ROZ 98, in accordance with TM/HB/23/23/93, latest issue, 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 SNo.

## **SECTION 4 HB 23/2400 V2**

### **D.I. General**

Data Sheet No.: A.433	Issue: 01	Date: 07-Jan-2010
1. a) Type:	HB 23/2400	
b) Variant:	HB 23/2400 V2	
2. Airworthiness Category:	Utility	
3. Type Certificate Holder:	HB-Flugtechnik GmbH Dr. Adolf Schärfstraße 42 A-4053 Haid Austria <a href="http://www.hb-flugtechnik.at">www.hb-flugtechnik.at</a>	
4. Manufacturer:	HB Brditschka GmbH & Co KG Flugzeugbau A-4053 Haid Austria	
5. Certification Application Date:	---	
15. BAZ/ACG Certification Date :	Nov.1985 see Note 6	
16. The EASA Type Certificate replaces the Austrian Type Certificate SF 14/87		
17. EASA Certification Date:	---	

### **D.II. 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
8. Exemptions:	None
9. Equivalent Safety Findings:	BAZ approved 6285-2/31-85 dated 20.12.1985
10. Environmental Standards:	Zivilluftfahrzeug-Lärmzulässigkeitverordnung BGBl. 700/1986 and 738/1993

### **D.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  
1 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
7. Dimensions:  
Span *16,40 m*  
Length *8,00 m*  
Height *2,45 m*  
Wing Area *19,067 m<sup>2</sup>*
5. Engines:  
VW-HB-2400 G or G/2 (see Note 5)  
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: 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)
7.4 Settings		Low pitch setting/ Static RPM: 3500+/- 200
17. 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)
18. Fluid capacities:		
9.1 Fuel:	Standard Fuel Tank	Total: 66 (2x 33) liters Usable: 66 liters
9.2 Oil:		Maximum: 4,0 liters Minimum: 3,0 liters
19. Air Speeds:		
Design Manoeuvring Speed $v_A$ :		173 km/h
Maximum rough air speed $V_{ra}$ :		173 km/h.
Never exceed speed $v_{NE}$ :		200 km/h
11. Maximum Operating Altitude:		---
12. Allweather Capability:		Day-VFR
16. Maximum Masses:		
Take-off		775 kg
Maximum mass of non lifting parts		550 kg
17. 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
22. (reserved)		
23. Levelling Means:		top of fuselage aft of propeller horizontal
18. Minimum Flight Crew:		1 (Pilot)
19. Maximum Passenger Seating Capacity:		2
20. (Reserved)		
24. Baggage / Cargo Compartments		
Behind Seats		10 kg
22. Wheels and Tyres		
Main/Tail Wheel Tyre Size		For approved Types and rating

see AMM

#### **D.IV. Operating and Service Instructions**

Airplane Flight Manual (AFM)

Airplane Flight Manual HB 23/2400, Issue April 1986,  
BAZ approved (German Version)

Airplane Maintenance Manual (AMM)  
(incl. Airworthiness Limitations)

Maintenance Manual, Issue April 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

#### **D.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
  - 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 ÖNorm C1100, min. ROZ 98, in accordance with TM/HB/23/23/93, latest issue, is permitted.
- 7) Initial Certification carried out by the Austrian Aviation Authority – Bundesamt für Zivilluftfahrt renamed to Austro Control
- 8) The certification applies to SNo. 23.002 only.

**Change Record**

<b>Issue</b>	<b>Date</b>	<b>Changes</b>
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