DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

G55EU HB AIRCRAFT INDUSTRIES AG HB-23 2400 HOBBYLINER/SCANLINER July 18, 1988

TYPE CERTIFICATE DATA SHEET NO. G55EU

This Data Sheet which is part of Type Certificate Number G55EU prescribes conditions and limitations under which the Type Certificate was issued. It fulfills the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder HB Aircraft Industries AG

PO Box 27

4030 Haid, Austria

Model HB-23 / 2400 (Utility Category), approved July 18, 1988.

Version 1: HB-23/2400 Hobbyliner Version 2: HB-23/2400 Scanliner

(which is the same type as the HOBBYLINER except for the nose of the aircraft. The SCANLINER has a bubble nose canopy and a different

instrument panel)

Engine VW-HB-2400 G/2

Fuel Aviation gasoline 100 LL or min ROZ 97.5 octane

Engine Limits for all operations 4000 rpm

Propeller HB AIRCRAFT INDUSTRIES HB-SVP-3E-170-160-LD

Diameter 66.93 in 3 blades

Blade Angle setting - 2 fixed positions: feather and cruise.

Blade adjusts automatically to cruising position by aerodynamical forces after the engine

is started.

Airspeed Limits Maximum airspeed in calm air

Never exceed (Vne)

6500 ft. alt. 108 kts 124 mph 200 km/h 0 -6501 -10000 ft. alt. 105 kts 120 mph 193 km/h 10001 -13000 ft. alt. 99 kts 114 mph 183 km/h 13001 -16500 ft. alt. 108 mph 174 km/h 94 kts 16001 - 20000 ft. alt. 89 kts 103 mph 165 km/h

The following limits are valid for all altitudes up to 16500 ft.

in rough air (Vb, Vra) 92 kts 106 mph 170 km/h maneuvering (Va) 92 kts 106 mph 170 km/h

The following limits are valid for all altitudes from 16500 ft. to 20000 ft.

in rough air (Vb, Vra) 89 kts 103 mph 165 km/h maneuvering (Va) 89 kts 103 mph 165 km/h

C.G. Range 92.125 in. to 100.0 in. (2.360m - 2.540m) aft of datum for all operational aircraft

weights.

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Empty Weight C.G. See flight manual section 6.4.

Datum 78.74 in. (2m) infront of wing leading edge measured at the wing root.

Leveling Means Upper spar of the tail boom.

Maximum Weight 1675.5 lb (760 kg)

Minimum Crew One pilot (minimum weight 155 lb - 70 kg)

No. of Seats Two 58.5 in. (1.486m) aft of datum.

Maximum Baggage 44 lb (20 kg), 88.6 in. (1.486m) aft of datum.

Fuel Capacity 2 x 10 US gal (2 x 38 liters) or 2 x 13.2 US gal (2 x 50 liters) 88.6 in. (2.250 m) aft of

datum.

Oil Capacity 4.23 qt (4.5 liters) 98.43 in. (2.500 m) aft datum.

Control Surface Movements

Aileron: Up 5.9+/-0.4 in (150mm+/-10mm)

Down 5.1/-0.4 in (130mm+/-10mm) Measurement radius 11.8 in (300mm) on inboard edge

of aileron.

Stabilizer: Up 5.9+/-0.4 in (150mm+/-10mm)

Down 5.1+/-0.4 in (130mm+/-10mm) Measurement radius 16.73 in (425 mm) on root of the

left rudders.

Trim Tab: Up 0.2+0.2in/-0.0 in (5mm + 5mm/-0mm)

Down 1.2+/-0.2 in (30mm +5mm) Measurement radius 4.33 in (110mm) on out board

edge of trim tab.

Rudder: Both sides 5.9 in + /-0.2 in (150mm+/-5mm)

Measurement radius 12.2 in (310mm) on upper edge of

rudder.

Serial No's. Eligible Far 21.23, 21.29 and 21.50 effective February 1, 1965 including Amendments 21-1

through 21-49.

Compliance with FAR 21.23 through Amendment 21-49 has been shown utilizing the provisions of Advisory Circular 21.23-1 dated 12 January 1981, Section 5, paragraph a. The airworthiness requirements met under this provision are the Joint Airworthiness Requirements for Sailplanes and Powered Sailplanes (JAR-22) dated 18 May, 1981 including Amendments 1, and Section 5, paragraph (e)(6) of Advisory Circular 21.23 - 1 dated 12 January 1981.

FAR 23.471, 23.473, 23.479, 23.481, 23.483, 23.485, 23.493, 23.499, 23.727 and 23.725 effective February 1982 and including Amendments 23-1 through 23-28.

Type Certificate No. G55EU issued July 18, 1988.

Date of Application for Type Certificate: October 16, 1987.

The applicable airworthiness requirements for US certification under FAR 21.29 identified above were established considering the airworthiness requirements applied by the exporting country under the provisions of paragraph's 2 and 6 of the agreement between the United States of America and the Republic of Austria dated April 30, 1959, titled Certificates of Airworthiness for Imported Aeronautical Products and Components.

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Import Requirements A U.S. Standard airworthiness Certificate may be issued on the basis of the Bundesamt

fur Zivilluftfahrt (BAZ) containing the following statement:

"The powered glider covered by this certificate has been examined, tested and found to conform to the type design approved to the under the FAA Type Certificate No. G55EU and is in condition for safe operation", and the FAA inspector finds that the powered glider conforms to the U.S. Type Design and is in condition for safe operation.

Equipment The equipment approved for the HB-23/2400 is listed in the Master Equipment List.

The Required Equipment for the kinds of approved operations are listed in the Flight

Manual, dated July 1988.

Service Information HB AIRCRAFT Technical Information (Service bulletins), published in the English

language for the U.S. Type Design that carry a statement "Approved by the Bundesamt

fur Zivilluftfahrt" may be interpreted as FAA-approved.

Available documents for HB-23/2400 - Flight manual, dated July 1988

- Instructions for Continued Airworthiness July 1988

NOTES

NOTE 1 Current weight and balance report including list of equipment in certificated empty weight, and loading instructions, when necessary, must be provided for each glider at the time of the original certification empty weight and corresponding center of gravity locations must include the engine oil.

NOTE 2 The placards listed in Section 7 of the HB-23/2400 Service Manual must be displayed.

NOTE 3 Section 10 of the HB-23/2400 Instructions for Continued Airworthiness specifies mandatory replacement times, structural inspection intervals, and related structural procedures. These airworthiness limitations may

not be changed without FAA approval.

NOTE 4 Major structural repairs must be accomplished at the FAA-certificated repair stations, in accordance with HB

AIRCRAFT repair methods approved by the FAA.

NOTE 5 All Serial numbers containing an S - e.g. 23XXX-SX are respectively HB-23/2400 SCANLINERS.

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