

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

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| H1GL Scheutzw Model B May 4, 1976 |
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TYPE CERTIFICATE DATA SHEET NO. H1GL

This data sheet which is a part of type certificate No. H1GL prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder Scheutzw Helicopter Corporation
Columbia Station, Ohio

I - Model B Helicopter

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| Engine | Lycoming IVO-360-A1A | |
| Fuel | 100/130 minimum grade aviation gasoline | |
| Engine limits | Take-off (5 min.), 2900 rpm, 28.3 in. Hg. (180 hp) Max. continuous, 2900 rpm, 27.7 in. Hg. (175 hp) See FAA approved Rotorcraft Flight Manual for variation of maximum manifold pressure with ambient conditions. | |
| Rotor limits and engine operating speeds | Power Off (Rotor Tach.) Minimum 400 rpm Maximum 485 rpm | Power On (Engine Tach.) Minimum 2750 rpm Maximum 2900 rpm |

Airspeed limits (IAS)

| VARIATION OF V _{ne} WITH ALTITUDE AND TEMPERATURE | | | | | | | | | | |
|--|----|------|------|------|------|------|------|------|------|------|
| PRESSURE ALTITUDE IN FEET | | | | | | | | | | |
| OAT °F | 0 | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 |
| -20 | 93 | 93 | 93 | 93 | 93 | 93 | 89 | 84 | 79 | 76 |
| 0 | 93 | 93 | 93 | 93 | 93 | 89 | 83 | 78 | 74 | 71 |
| 20 | 93 | 93 | 93 | 93 | 89 | 83 | 78 | 74 | 70 | 66 |
| 40 | 93 | 93 | 92 | 89 | 83 | 78 | 74 | 70 | 67 | - |
| 60 | 93 | 90 | 86 | 83 | 79 | 74 | 70 | 67 | - | - |
| 80 | 90 | 86 | 83 | 79 | 74 | 70 | 67 | - | - | - |
| 100 | 86 | 83 | 79 | 74 | 70 | 66 | - | - | - | - |
| INDICATED AIRSPEED - MPH (with zero instrument error) | | | | | | | | | | |

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| Altitude limits | Take-off and landing, 6300 ft. density altitude maximum; enroute, 8700 ft. density altitude maximum. |
| C.G. range | |
| longitudinal | (+96.0) to (+100.5) |
| lateral | (+1.0) right to (-1.4) left |
| Maximum weight | 1735 lbs.; refer to Approved Rotorcraft Flight Manual for variation of weight with altitude |
| No. of seats | 2 (+65.3) longitudinal, (+13.5) and (-9.5) lateral |
| Maximum baggage | 100 lbs. (+87) longitudinal; lateral is optional |

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| Fuel capacity | 21 gal. total, (+99.1) longitudinal, (-17.4) lateral Moment arms shown are for full tank. See FAA Approved Flight Manual for variation of moment arms with fuel quantity. (See Note 1 for data on unusable fuel) |
| Oil capacity | 6 qts. total, (+115) longitudinal, (See Note 1 for data on unusable oil) |
| Rotor blade and control movements | Refer to Maintenance Manual for rigging information |
| Stabilizer setting | Refer the Maintenance Manual |
| Serial Nos. eligible | 104 and up |
| Datum, longitudinal: lateral: | 100 in. forward of center line of main rotor mast Airframe centerline or center line of mast |
| Leveling means | Rotor mast (vertical) |
| Certification basis | Part 27 of Federal Aviation Regulations, effective February 1, 1965 and Amendments 27-1 through 27-9 Application for Type Certificate dated March 13, 1975 |
| Production basis | None - Type Certificate only |
| Equipment: | The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the helicopter for certification. In addition, an FAA Approved Rotorcraft Flight Manual is required. |

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 helicopter at the time of original certification. The certificated empty weight and corresponding center of gravity locations must include unusable fuel of 0.3 gal. at (104.5) longitudinal, (-20.5) lateral and unusable oil of 1.5 qts. at (+115) longitudinal, (0) lateral.

NOTE 2. The following placard must be displayed in front of and in clear view of the pilot:

"This helicopter must be operated in compliance with the operating limitations specified in the Approved Rotorcraft Flight Manual and Maintenance Manual Airworthiness Limitations."

See FAA Approved Rotorcraft Flight Manual for additional operational limitations and placards.

NOTE 3. Prior to the issuance of any Standard Certificate of Airworthiness, an acceptable Rotorcraft Maintenance Manual must be furnished to the FAA by the manufacturer.

NOTE 4: Information essential for proper maintenance of the helicopter is contained in the Maintenance Manual. The retirement times of critical parts are listed in Section 1 titled, Critical Parts, Airworthiness Limitations, and Scheutzow Helicopter Corporation Report No. SHC 592, Revision F, Retirement Life of Critical Components Scheutzow Model B Helicopter, dated April 5, 1976.

Values of retirement times of critical parts cannot be increased without FAA approval.

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