

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

H2EU Revision 1 Model SH-4 October 15, 1992
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TYPE CERTIFICATE DATA SHEET NO. H2EU

This data sheet which is a part of Type Certificate No. H2EU 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 SILVERCRAFT S.co.p.a.
 Via Carlo Alberto n. 42
 14049 - Nissa Monferrato (At)
 Italy

I - Model SH-4 Helicopter (Normal Category), Approved September 11, 1968

Engine	Franklin 6A-350-D1																				
Fuel	80/87 Minimum grade aviation gasoline																				
Engine limits	<table style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th style="text-align: center;"><u>HP</u></th> <th style="text-align: center;"><u>RPM</u></th> <th style="text-align: center;"><u>IN.HG</u></th> <th style="text-align: center;"><u>ALT.FT.</u></th> </tr> <tr> <td>Max. continuous</td> <td style="text-align: center;">170</td> <td style="text-align: center;">2850</td> <td style="text-align: center;">26.7</td> <td style="text-align: center;">S.L.</td> </tr> <tr> <td>Max. continuous</td> <td style="text-align: center;">170</td> <td style="text-align: center;">2850</td> <td style="text-align: center;">25.2</td> <td style="text-align: center;">4000</td> </tr> <tr> <td>Take off</td> <td style="text-align: center;">170</td> <td style="text-align: center;">2850</td> <td style="text-align: center;">26.7</td> <td style="text-align: center;">S.L.</td> </tr> </table>		<u>HP</u>	<u>RPM</u>	<u>IN.HG</u>	<u>ALT.FT.</u>	Max. continuous	170	2850	26.7	S.L.	Max. continuous	170	2850	25.2	4000	Take off	170	2850	26.7	S.L.
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Rotor Limits & Engine Operating Speeds	<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;"><u>Power Off (Rotor Tach.)</u></th> <th style="text-align: left;"><u>Power On (Engine Tach.)</u></th> </tr> <tr> <td>Max. 437 r.p.m.</td> <td>Max. 2850 r.p.m.</td> </tr> <tr> <td>Min. 389 r.p.m.</td> <td>Min. 2650 r.p.m.</td> </tr> </table>	<u>Power Off (Rotor Tach.)</u>	<u>Power On (Engine Tach.)</u>	Max. 437 r.p.m.	Max. 2850 r.p.m.	Min. 389 r.p.m.	Min. 2650 r.p.m.														
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Max. 437 r.p.m.	Max. 2850 r.p.m.																				
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Airspeed limits (IAS)	Vne (Never Exceed Speed) 100 m.p.h. (87 knots) at Sea Level. For reduction of Vne with altitude, see Rotorcraft Flight Manual.																				
C.G. range (Longitudinal)	(+82.7) to (+85.8) at 1350 lb. (+80.1) to (+86.6) at 1750 lb. to 1900 lb. Straight line variation between 1350 lb. and 1750 lb.																				
Empty Weight C.G. Range	None																				
Leveling Means	Plumb bob at the reference located on the left side of the fuselage, just after the door.																				
Datum	(+70.1) forward of the plumb bob.																				
Maximum weight	1900 lb.																				
No. Seats	3 (+55.1)																				
Fuel capacity	33.5 gal. total; (2 tanks) at (+85.2) See NOTE 1 for unusable fuel.																				
Oil capacity	2.35 gal. at (+95.1) See NOTE 1 for unusable oil.																				
Other operating limitations	See Rotorcraft Flight Manual.																				

Main Rotor Blade Movements	(Helicopter Level) The angles refer to upper surface of main rotor grip
- Collective Pitch	+ 7° to - 7° (± 30')
- Cyclic, forward	8° 30' (± 30')
aft	8° 30' (± 30')
left	6° 40' (± 30')
right	6° 40' (± 30')
Tail Rotor Blade Movements	The angles refer to blade tip.
Collective	+ 2° 45' (±30')
	+20° 30' (±30')
Serial Nos. Eligible	The Registro Aeronautico Italiano (R.A.I.) Certificate of Airworthiness endorsed as noted below under "Import Requirements" must be submitted for each individual Rotorcraft for which certification is made.
Certification Basis	FAR 27 effective February 1, 1965 including Amendment 27-1. Type Certificate No. H2EU issued September 11, 1968. Date of application for type certificate: September 1, 1967.
Import Requirements	A U.S. Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export signed by a representative of the Registro Aeronautico Italiano (R.A.I.) containing the following statement: "The Rotorcraft covered by this certificate has been examined and found to comply with U.S. Federal Aviation Regulations FAR 27 effective February 1, 1965 including Amendment 27-1 and conforms to T.C. H2EU."
Equipment	The basic required equipment as prescribed in the applicable Airworthiness Regulations (See Certification Basis) must be installed in the Rotorcraft for certification. In addition, the following items of equipment are required: <ul style="list-style-type: none"> (a) R.A.I. Approved Rotorcraft Flight Manual <ul style="list-style-type: none"> (1) Flight Manual dated September 4, 1968 for Model SH-4
NOTE 1.	Current Weight and Balance Report, including list of equipment included in certificated empty weight and loading instructions, must be provided for each helicopter at the time of original Airworthiness Certification and all times thereafter. Ballast, when necessary, must be carried in accordance with the loading instructions in the Rotorcraft Flight Manual. The certificated empty weight and corresponding Center of Gravity locations must include: <ul style="list-style-type: none"> - unusable fuel 6.0 lb. at (+ 82.0) - unusable oil 4.8 lb. at (+ 95.1)
NOTE 2.	The following placard must be installed in front and clear view of the pilot: <p style="text-align: center;">"THIS HELICOPTER MUST BE OPERATED IN COMPLIANCE WITH THE OPERATING LIMITATIONS SPECIFIED IN THE RAI APPROVED ROTORCRAFT FLIGHT MANUAL."</p> <p>For additional placards, see the Rotorcraft Flight Manual.</p>
NOTE 3.	For the retirement time of critical parts see the R.A.I. Approved Flight Manual.
NOTE 4.	This helicopter must be serviced and maintained in compliance with instructions given by Silvercraft s.co.p.a., in the Inspection Requirements and Maintenance Manual.

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