

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

H2CE Revision 4 HAWKEYE ROTOR & WING U.S. Army Model OH-13E January 15, 1985
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TYPE CERTIFICATE DATA SHEET NO. H2CE

This data sheet which is a part of type certificate No. H2CE 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	Wilbur M. Isenberg d/b/a Hawkeye Rotor and Wing Flight School Rural Route 2 Nevada, Iowa 50201
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I - Model OH-13E (Restricted Category) approved January 30, 1974

Engine	Franklin 0-335-5D (6V-335-A)						
*Fuel	91/96 minimum grade aviation gasoline						
*Engine Limits	Maximum continuous rpm. 3100 (210 hp.)						
*Rotor Limits & oper. engine limits	<table style="width: 100%;"><tr><td style="text-align: center;"><u>Power on (Engine Tach.)</u></td><td style="text-align: center;"><u>Power off (Rotor Tach.)</u></td></tr><tr><td style="text-align: center;">Maximum 3100</td><td style="text-align: center;">Maximum 360</td></tr><tr><td style="text-align: center;">Minimum 2900 (S.L.)</td><td style="text-align: center;">Minimum 322</td></tr></table>	<u>Power on (Engine Tach.)</u>	<u>Power off (Rotor Tach.)</u>	Maximum 3100	Maximum 360	Minimum 2900 (S.L.)	Minimum 322
<u>Power on (Engine Tach.)</u>	<u>Power off (Rotor Tach.)</u>						
Maximum 3100	Maximum 360						
Minimum 2900 (S.L.)	Minimum 322						
*Airspeed limits	Vne (never exceed) 83 knots (95 mph) (See NOTE 2 for required placard)						
*C.G. range	+4.0 to -0.9 from ϕ rotor (83.0 to 87.9 from datum)						
Datum	87.0 inches forward of main rotor mast centerline.						
*Maximum weight	2350 lb.						
Minimum crew	1 (pilot) (+55)						
*Fuel capacity	29 gal. (+109)						
*Oil capacity	2 gal. (+90)						
Control movements	(Tolerance $\pm 1/2^\circ$)						
Swashplate travels for cyclic pitch for basic configuration Collective Pitch Antitorque rotor pitch Serial Nos. eligible	Reference TM-55-1520-224-20, Fig. 9-10 et el, for settings S/N 520 (U.S. Army OH-13E, S/N 51-13879), and S/N 514						
Certification basis	FAR 21.25(a)2 effective February 1, 1965. Type Certificate issued January 30, 1974 for the purpose of (1) Forest and Wildlife conservation (2) Patrolling (3) Search and rescue						

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Production Basis	None. No helicopter may be produced under this approval. Prior to original certification of each aircraft, an FAA Engineering and Manufacturing inspector must perform inspection for airworthiness and conformity with the approved type design.
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, equipment necessary for the particular special purpose must be installed.
NOTE 1.	Current weight and balance report including list of equipment included in certification empty weight, and loading instructions when necessary must be in each helicopter at time of original airworthiness certification and at all times thereafter.
NOTE 2.	<p>All placards and markings required in the Helicopter Flight Manual, TM 55-1520-244-10, dated October 1, 1969, must be installed in the appropriate location.</p> <p>The following placards must also be installed in clear view of the pilot:</p> <ul style="list-style-type: none"> (a) "This helicopter must be operated in accordance with the restricted category operating limitations of FAR 91.39." (b) "Airspeed limits: Never exceed speed Vne 78 knots (90 mph) in external loading configuration including floats." (c) "This helicopter must be operated in compliance with the operations limitations as stated in the form of placards, markings and military operators manual for OH-13E, TM 55-1520-244-10 dated October 1, 1969."
NOTE 3.	Component overhaul intervals and replacement times shall be in accordance with the Bell Maintenance Manual provided for each helicopter, or equivalent Department of the Army manual, unless superseded by appropriate airworthiness directives applicable to Bell Model 47 series helicopters.
NOTE 4.	<p>Prior to Civil Airworthiness Certification, the following must be accomplished.</p> <ul style="list-style-type: none"> (a) Inspection to determine airworthiness status of all life limited parts, as determined, in accordance with (b) All life limited parts must be recorded with hours-time-in-service in the maintenance records. (c) Compliance with FAA letters dated June 12, 1973, and August 15, 1973, from Chief of Engineering and Manufacturing Branch, ACE-210, FAA Central Region. (d) The provisions of ADs 54-24-1, 55-5-1, 55-14-1, 55-16-1, 56-15-2, 56-15-3, 56-21-1, 56-25-2, 57-7-2, 58-23-1, 60-10-1, 61-22-1, 70-8-2, 70-10-8, 70-11-4, 70-14-1, 70-14-2, 72-2-5, 73-19-2, 73-19-4, (as applicable). (e) Remark engine nameplate with civil model designation as required by NOTE 7, engine type certificate data sheet E-244, Rev. 17.
NOTE 5.	This model helicopter must be serviced and maintained in compliance with Department of the Army Maintenance Manual TM-55-1520-244-35 dated October 1969 thru Change 3, and Organizational Maintenance Manual TM-55-1520-244-20 dated October 1969 thru Change 4.
NOTE 6.	Bell Fuel Gauge Unit, Part Numbers 47-711-018-003 gauge, 047-759-060-001 resistor, D380A transmitter must be installed and calibrated to assure fuel quantity readings.
NOTE 7.	Eligible for skid, floats and external stretcher installations when installed and operated in accordance with U.S. Department of the Army technical manual data.

In addition to the placards specified above, the prescribed operating limitations indicated by an asterisk (*) must also be displayed by permanent markings.

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