DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

H8WE
Revision 2
SCHNECK
Vertol (Army) CH-21C
5 March 1979

TYPE CERTIFICATE DATA SHEET NO. H8WE

This data sheet which is a part of type certificate No. H8WE 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　　　　Jack A. Schneck
　　　　　　　　　　　　　　　Route 1, Box 114
　　　　　　　　　　　　　　　Williams, California 95987

I - Model U.S. Army CH-21C (Restricted Category) approved 19 November 1971

Engine　　　　　　　　　　Wright R-1820-103

Fuel　　　　　　　　　　　115/145 or 100/130 min. grade
　　　　　　　　　　　　　Aviation Gasoline

Engine limits

Low Impeller Gear Ratio	HP	RPM	MP IN HG	ALT.
Maximum Continuous	1275	2500	46.5	S.L.
Maximum Continuous	1275	2500	45.5	2200
Take-Off (5 min)	1425	2700	51.5	S.L.
Take-Off (5 min)	1425	2700	50.5	1300

(Straight line manifold pressure variation with altitude).

NOTE: Operation at 2600 RPM prohibited.

High Impeller Gear Ratio				
Maximum Continuous	980	2500	43.0	10,800
Maximum Continuous	980	2500	42.0	15,600
Take-Off (5 min)	1100	2600	50.0	9,800
Take-Off (5 min)	1100	2600	49.0	13,000

(Straight line manifold pressure variation with altitude).

NOTE: Operation at 2700 RPM prohibited.

Rotor Limits and　　　　Power Off (Rotor Tach.)　　　　Power On (Engine Tach.)
　Engine Operating　　　　Maximum 258 RPM　　　　　　Maximum 2500 RPM
　Speeds　　　　　　　　Minimum 233 RPM　　　　　　Minimum 2300 RPM
　　　　　　　　　　　　　　　　　　　　　　　　　Maximum 2700 RPM; 30 minute limit

Airspeed limits　　　　　Vne (Never exceed) 102 knots IAS Sea Level
　　　　　　　　　　　　(See FAA approved Rotorcraft Flight Manual Supplement).

C.G. range　　　　　　　35 in. fwd. (Sta. 319) to 6.5 in. aft
　　　　　　　　　　　　(Sta. 360.5) of datum

Datum　　　　　　　　　Point midway between rotors (Sta. 354)

Maximum weight	13,500 pounds (See FAA approved Rotorcraft Flight Manual Supplement for variations with altitude and External Loads).
Minimum Crew	1 (pilot)
Fuel capacity	Main Fuel Tank 304 Gal. (Sta. 395.0) (300 Gal. usable in forward flight)
Oil capacity	21.5 Gal. (Sta. 540.3)
Other Operating Limitations	Department of the Army Technical Manual TM 55-1520-205-10 "Operator's Manual CH-21 Helicopter" dated 1964 and Schneck FAA approved Flight Manual Supplement dated 19 November 1971 or Subsequent FAA Approved Revision.
Serial Nos. Eligible	All Army Serial Nos.
Certification basis	FAR 21.25(a)(2) effective 1 February 1965 Type Certificate No. H8WE issued 19 November 1971 for special purposes of: Carriage of external loads per FAR 133 and Agriculture Frost Control by air agitation. Date of Application for Type Certificate 2 April 1971.
Production basis	None. No helicopter may be produced under this type approval. Prior to original Certification of each aircraft, an FAA representative must perform an inspection for workmanship, materials, 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 certificated empty weight, and loading instructions when necessary, must be in each helicopter at the time of original airworthiness certification and at all times thereafter.

NOTE 2. The following placard must be installed in clear view of the pilot.

"This helicopter must be operated in compliance with the operating limitations specified in Department of the Army Technical Manual TM 55-1520-205-10 and the FAA approved supplement thereto."

For additional placards see flight manual supplement.

NOTE 3. Prior to civil airworthiness certification, the following must be accomplished:

(a) Modifications in accordance with FAA Sealed Jack A. Schneck Drawings AJS, AJS-A, 1JS, 2JS, 3JS, 4JS and 5JS.

(b) The provisions of AD 60-7-8.

NOTE 4. This model helicopter must be serviced and maintained in compliance with Department of the Army Technical Manual TM 55-1520-205-20, "Organizational Maintenance Manual CH-21C helicopter" dated 1964.

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