

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

H1NM
Revision 1
WRIGHT
(Vertol)
H-21B
March 19, 1984

TYPE CERTIFICATE DATA SHEET NO. H1NM

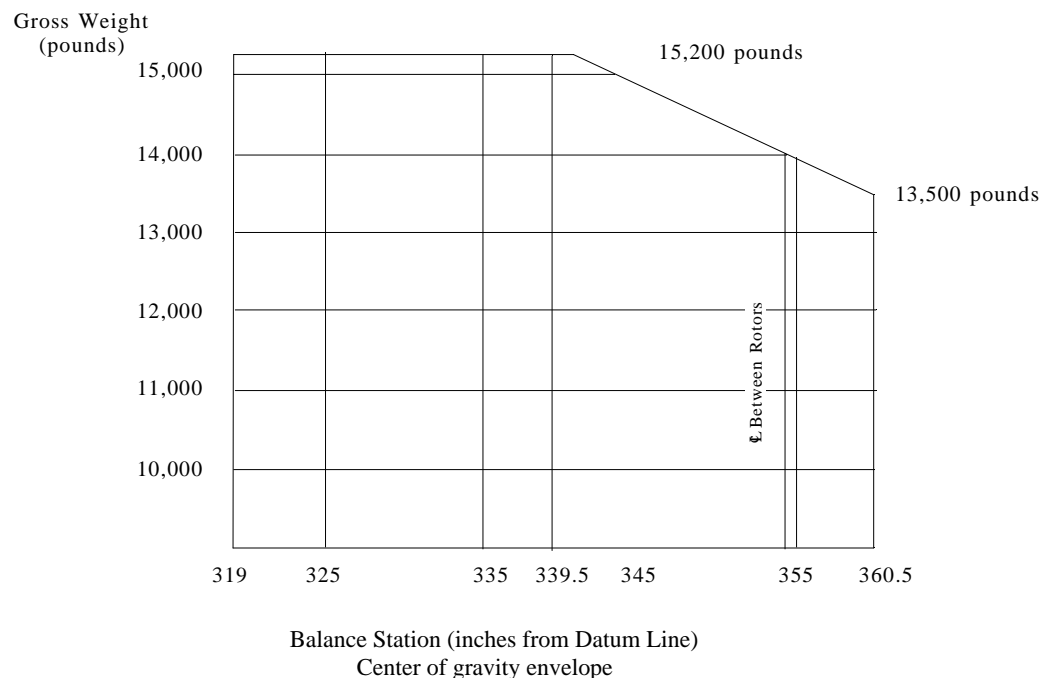
This data sheet which is a part of type certificate No. H1NM prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder Kevin Wright
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1. Model U.S. Air Force H21B (Restricted Category) approved October 5, 1983

Engine	Wright R-1820-103A
Fuel	100/130 or 115/145 maximum grade
Engine limits	
	<u>HP RPM MAP ALT. (ft)</u>
	Low Ratio Supercharger
Maximum Continuous	1275 2500 46.5 S.L.
	1275 2500 45.5 3000
Take-Off (30 min)	1425 2700 51.5 S.L.
	1425 2700 50.5 1300
	High Ratio Supercharger
Maximum Continuous	980 2500 43.0 10,800
Take-Off (5 min)	1100 2600 50.0 9,800
Rotor Limits	Power On Power Off
	233 to 258 rpm 250 to 300 rpm
Airspeed limits	Vne (never exceed) 110 knots IAS (See Note 2(b) for required placard)
C.G. range	Sta. 319.0 to Sta. 339.5 at 15,200 lb. Sta. 319.0 to Sta. 360.5 at 13,500 lb. or less (See Center of Gravity Envelope)
Datum	100 inches forward of forward rotor centerline

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Maximum weight	15,200 lb.
Minimum Crew	1 (pilot)
Fuel capacity	300 gallon usable, fully serviced 304 gallon
Oil capacity	21.5 gallon
Other Operating Limitations	USAF T.O. 1H-21 (C) B-1 Flight Manual
Serial Nos. Eligible	All USAF serial numbers with AFTO Form 100A (Accessory Replacement Record) which completely describe the maintenance history of the helicopter.
Certification basis	FAR 21.25(a)(2). Type Certificate No. H1NM dated October 5, 1983, issued for the purpose of: Carriage of external loads, agricultural (frost control), and banner towing.
Date of application for Type Certificate:	March 4, 1983
Production basis	None. No helicopters may be produced under this approval.
Equipment:	The basic required equipment as prescribed in the applicable airworthiness regulations (See Certification Basis) must be installed in the aircraft for certification. In addition, the following items of equipment are required: <ul style="list-style-type: none"> (a) USAF T.O. 1H-21(c) B-1 Flight Manual <p>When conducting external load operations the cargo sling must be installed in accordance with Section V of T.O. 1H-21-2-2</p>

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 placards must be displayed in the cockpit in full view of the pilot:

- (a) This helicopter must be operated in accordance with the operating limitations noted in USAF T.O. 1H-21 (C) B-1 Flight Manual.

(b)

ALT (FT)	VNE IAS KNOTS		
	2500 rpm	2400 rpm	2300 rpm
S.L.	110	101	93
2000	97	89	81
4000	85	77	69
6000	73	65	-
8000	60	60	-
10,000	60	60	-

NOTE 3. Information essential to the proper maintenance of the helicopter including retirement time of critical components is contained in T.O. 1H-21(C) B-6. The values of retirement or service life cannot be increased without FAA engineering approval.

NOTE 4. Prior to civil airworthiness certification, the provisions of AD 58-20-4, AD 60-23-5, AD 64-19-6, AD 64-27-4, AD 68-6-1, and any follow-on applicable ADs must be accomplished.

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