

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

H12WE
Revision 1
Helitec Corporation
H-S-1N
Revised January 24, 2005

TYPE CERTIFICATE DATA SHEET NO. H12WE

This data sheet which is a part of type certificate No. H12WE 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: **This Type Certificate (TC) has been designated as ABANDONED (See Note 6)**

Type Certificate Holder Record: Helitec Corporation
4930 E. Falcon Dr.
Mesa, Arizona 85205

I. Model H-S-1N (Restricted Category) approved April 28, 1980

Engine	Wright Cyclone, R-1820-84A/84C				
Fuel	100/130 or 115/145 min. grade aviation gasoline				
Engine limits		HP	RPM	M.P. IN.HG.	ALT.
	Fuel Grade 115/145				
	Maximum continuous	1275	2500	47.5	S.L.
	Maximum continuous	1275	2500	46.0	3500 ft.
	Takeoff	1525	2800	56.5	S.L.
	Takeoff	1525	2800	55.5	700 ft.
	(Straight Line Manifold Pressure variation with altitudes shown)				
	Fuel Grade 100/130				
	Maximum continuous	1275	2500	47.5	S.L.
	Maximum continuous	1275	2500	46.0	3500 ft.
	Takeoff	1325	2800	50.0	S.L.
	Takeoff	1325	2800	49.5	2000 ft.
	(Straight Line Manifold Pressure variation with altitudes shown)				
Rotor Limits	Maximum 258 r.p.m. Minimum 170 r.p.m.				
Airspeed limits	Vne (Never exceed) 120 CAS (See Note 2 for required placard)				
C.G. range	(+130.7) to (+146.7)				
Datum	137.7 inches forward of main rotor centroid				
Leveling means	Plumb bob from top of cabin door frame to scale on lower door sill				
Maximum weight	12,700				
Minimum Crew	1 (pilot) (See note 2)				
Fuel capacity	Location	Volume (Gal.)	Arm (Inches)		
	Fwd. Tank	100.5	+121		
	Center Tank	70.0	+184		
	Aft Tank	92.0	+223		

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Oil capacity	12.4 gals. (+75)
Rotor Blade & Control Movements	For rigging information refer to Maintenance Manual SA4045-15
Other Operating Limitations	See Flight Manual NAVWEP-01-230-HLAA-1, TO1H-34H(J)-15-16, dated 6/6/73.
Serial Nos. Eligible	All Navy serial numbers

DATA PERTINENT TO ALL MODELS:

Certification Basis	<p>FAR 21.25(a)(2) effective February 1, 1965. Type Certificate No. H12WE issued April 28, 1980 for the purpose of:</p> <p>Carriage of external loads, per FAR 133 Date of application for Type Certificate was February 8, 1980</p> <p>The military helicopters certificated restricted category under Type Certificate No. H12WE with aluminum engine mount fittings P/N 1620-61435-series are not eligible for standard category S-58 configuration. Prior to standard airworthiness certification, information regarding eligibility and modification to be accomplished should be obtained from Sikorsky Aircraft.</p>
Production Basis	None. Prior to original airworthiness certification of each aircraft, FAA personnel must perform an airworthiness inspection determining condition for safe operation and determine the applicant has conducted a satisfactory flight test. See NOTE 4 for data on Service Bulletins and ADs.
Equipment:	The basic required equipment as prescribed for the special purpose operation and as necessary for safe operation must be installed in each helicopter.

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 prominently displayed in the cockpit in full view of the pilot (On Instrument Panel):

- (a) "Avoid fast turns, 15 sec. minimum for 360 degrees."
- (b) "During extended hovering, close windows and doors and turn vent system on. Close left windows during starting and taxiing."
- (c) "Avoid taxi turns below 2400 engine r.p.m."
- (d) "Never exceed speeds. Variation on Vne with altitude, engine r.p.m. and manifold pressure."

Alt.	2200 IAS	r.p.m. M.P.	2300 IAS	r.p.m. M.P.	2400 IAS	r.p.m. M.P.	2500 IAS	r.p.m. M.P.
S.L.	72	35.5	87	38.7	103	42.3	117	47.5
5,000	--	--	60	37.0	76	41.0	90	F.T.
10,000	--	--	--	--	--	--	63	F.T.

- (e) "Maximum Approved Gross Weight 12,700 lbs."
- (f) "This helicopter must be operated in compliance with the operating limitations specified in the Navy Flight Handbook, NAVWEP 01-230-HLAA-1, TO1H-34H(J)-15-16, dated June 6, 1973."

(g) "This helicopter has been certified in the restricted category for External-Load Operations only."

NOTE 3. Replacement times for life-limited parts are specified in Sikorsky S-58 Maintenance Manual Publication No. SA4045-15 Part IV, Section IV, revised March 1, 1971, unless superseded by appropriate Airworthiness Directives. The replacement period can not be extended without FAA approval.

NOTE 4. Prior to civil airworthiness certification, the following must be accomplished:

(a) The provisions of the following ADs and all subsequent applicable ADs.

ADs 57-19-02, 59-16-04, 60-17-03, 60-24-04, 61-01-03, 64-02-06, 66-19-04, 74-15-06, 75-07-07, 75-07-08 and 75-13-01.

(b) The provisions of the following Sikorsky Service Bulletins 58B: General-1, General-2, 10-2, 10-3, 10-5, 10-7, 10-10A, 15-1F, 15-2B, 15-3, 15-4H, 15-5C, 15-6A, 15-8, 15-14A, 20-10, 20-2, 20-6B, 20-7A, 20-9A, 20-10, 20-11, 20-12H, 20-14B, 20-15, 25-1, 30-1, 30-4, 35-1A, 35-2, 35-3B, 35-5A, 35-6, 35-7A, 35-8B, 35-9, 35-11, 35-16C, 35-17B, 35-18B, 35-19, 40-1, 40-2, 40-4, 65-1, 65-2A, 65-3B and 65-4A.

(c) Deactivate Automatic Flight Control System if installed.

NOTE 5. Maintenance will be accomplished in accordance to the S-58 Maintenance Manual SA4045-15.

Component overhaul intervals shall be in accordance with "Sikorsky Aircraft Engineering Recommended and Customer Approved Component Overhaul Intervals and Replacement Times," Parts I and II, dated 5 September 1956.

NOTE 6. **This Type Certificate (TC) has been designated "ABANDONED".** A "Notice of Intent To Designate as Abandoned Certain Type Certificates Issued in the Restricted Category," was published by the Federal Aviation Administration (FAA) in the Federal Register on August 8, 2003 (68 FR 47379). That Notice listed this TC. The FAA received no comments on the published Notice. The FAA has been unable to contact this TC holder. Hence, the FAA has determined that this TC holder is not complying with its Continued Operational Safety (COS) responsibilities. Therefore, no additional aircraft will be added to this TC and no additional original airworthiness certificates will be issued based on this TC. The effectiveness of this TC is limited to those aircraft that received original airworthiness certification prior to the incorporation of this note (Date of Incorporation, January 24, 2005). Subsequently, if the TC holder is located and assumes their COS responsibilities, the restriction(s) imposed by this note may be lifted.

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