

DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

5H2
Revision 2
CESSNA
(formerly Seibel)
Seibel S-4A

November 5, 1952

HELICOPTER SPECIFICATION NO. 5H2

Holder of Type Certificate Cessna Aircraft Company
Wichita, Kansas

I - Model Seibel S-4A, 2 POLH, Approved January 3, 1951

Engine	Lycoming 0-290-D
Fuel	80 min. octane aviation gasoline
Engine limits	2800 rpm, (130 hp) - 1 min. T.O. 2600 rpm, (125 hp) - Normal operation, S.L. 1100 rpm idle (with rotor engaged)
Rotor limits	Maximum 2800 equivalent engine speed, minimum 2400 equivalent engine speed 0 to 4000 ft. altitude, above 4000 ft. altitude minimum 2600 equivalent engine speed. (Rotor rpm read on engine tach scale, gear ratio 6.67. Actual rotor speeds 420 rpm maximum, 360 rpm minimum.)
Airspeed limits	Never exceed 65 mph (57 knots) True Ind. Never exceed 10 mph (8.7 knots) rearward or sideward flight
Altitude limits	Avoid slow speed operation between 10 ft. and 500 ft. alt.
C.G. range	(-2.5) to (0.0)
Empty weight C.G. range	None
Leveling means	Main rotor shaft
Datum	Center main rotor shaft
Maximum weight	1500 lbs.
No. of seats	2, Pilot (-68), passenger (0). See loading instructions for required ballast with variable pilot weights.
Maximum cargo	400 lbs. (0)
Fuel capacity	19.5 gal. (-0.5) (Usable 19 gal.). See NOTE 1 for unusable fuel.
Engine oil capacity	8 qts. (+38)
Rotor blade movements	See Approved Maintenance Manual for rotor blade movements and rigging information.
Serial Nos. eligible	1 and up

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Required equipment 101, 102, 103, 104, 201, 202, 205, 206, 401, 601

Specifications Pertinent to All Models

Certification basis Type Certificate No. 5H2 (CAR 6)

Production basis None. Prior to original certification a CAA representative must perform a detailed inspection for workmanship, materials, and conformity with the approved technical data, and a check of the flight characteristics.

Export eligibility Eligible for export to all countries subject to the provisions of ASR 312 (MOP 2-4 contains the same information).

Equipment: A plus (+) or minus (-) sign preceding the weight of an item of equipment indicates net weight change when that item is installed.

Engine and Engine Accessories - Fuel and Oil System

101. Carburetor box No. 4A-685-000	4 lbs. (+34)
102. Heater muff No. 4A-611-014	3 lbs. (+37)
103. Oil radiator (engine) United Aircraft Product 40875	7 lbs. (+28)
104. Oil radiator (transmission) G & O Radiator Co. Model V1832	6 lbs. (+31)

Landing Gear

201. 2 Main wheel-brake assemblies, 6.00-6, Type III	
(a) Cleveland Model 6:00 DMB	14 lbs. (+20)
Wheel Assembly #D48500	
Brake Assembly #C7000	
202. (a) 2 Main wheel four ply-rating tires, 6.00-6, Type III (with regular tubes)	15 lbs. (+20)
205. 1 Nose wheel, 5.00-4, Type III	
(a) Firestone Model 5C2M-1	3 lbs. (-115)
206. (a) 1 Nose wheel six ply - rating tire, Type III (with regular tubes)	3 lbs. (-115)

Interior Equipment

401. Seibel S-4A Helicopter Flight and Maintenance Manual approved December 19, 1950

Miscellaneous (not listed above)

601. Windshield, Seibel 4-914-000	16 lbs. (-96)
602. Cargo floor 4-912-001	16 lbs. (-8)
603. Passenger seat 4-911-011	7 lbs. (-2)
604. Ballast - removable	25 lbs. (+80)

NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions must be in each helicopter at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system). Ballast, when necessary, must be carried in accordance with Loading Instructions in the Approved Flight Manual.

The certificated weight empty and corresponding center of gravity location must include unusable fuel of 3 lbs. at (0) and unusable oil of 1 lb. at (+39) and transmission oil of 8.5 lbs. at (0).

NOTE 2. The following placard must be displayed in front of and in full view of the pilot:

"This Helicopter Must Be Operated in Compliance with the CAA Approved Flight Manual.
No Acrobatic Maneuvers Permitted."

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