

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

R00021LA
BILLINGS FLYING SERVICE INC.
UH-60A

August 23, 2016

TYPE CERTIFICATE DATA SHEET R00021LA

This data sheet, which is a part of Type Certificate No. R00021LA prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the 14 Code of Federal Aviation Regulations (14 CFR).

TYPE CERTIFICATE HOLDER: BILLINGS FLYING SERVICE INC.
6309 Jellison Road
Billings, Montana 59101

TYPE CERTIFICATE HOLDER RECORD: N/A

I - MODEL: UH-60A (Restricted Category Military Surplus Rotorcraft) Approved June XX, 2016.

ENGINES: (2) General Electric T700-GE-700 Original
(2) General Electric T700-GE-701D/CC (Alternate)
* See NOTE 10 for alternate engine information.

FUEL: Aviation Kerosene JP-4, JP-5, JP-8, Jet A, Jet A-1 or Jet B.
*See NOTE 8 for alternate and emergency fuels.

ENGINE LIMITS: (T700-GE-700)

	SHAFT HP	POWER TURBINE RPM	GAS GEN RPM	POWER TURBINE INLET (TGT)
Military Power (30 min.)	1,561	20,900	44,700	850° C
Normal Cont. Cruise	1,318	20,900	44,700	775° C

ENGINE LIMITS: (T700-GE-701D/CC)

	SHAFT HP	POWER TURBINE RPM/%	GAS GEN RPM/%	POWER TURBINE INLET (TGT)
Contingency Rated Power (CRP) (2 1/2 min. OEI)	1,940	20,900/100	44,700/102	903° C
Maximum Rating (10 Min. dual)	1,890	20,900/100	44,700/102	878° C
Intermediate Rated Power (IRP) (30 min dual)	1,800	20,900/100	44,700/102	851° C
Maximum Continuous Power (MCP)	1,662	20,900/100	44,700/102	810° C

TRANSMISSION LIMITS: (UH-60A) TORQUE:
110% Single Engine (No time limit)
100% Dual Engine (No time limit)

ROTOR LIMITS: Power Off Power Off
Max. 265 RPM Max. 258 RPM
Min. 217 RPM Min. 232 RPM

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AIRSPEED LIMITS:

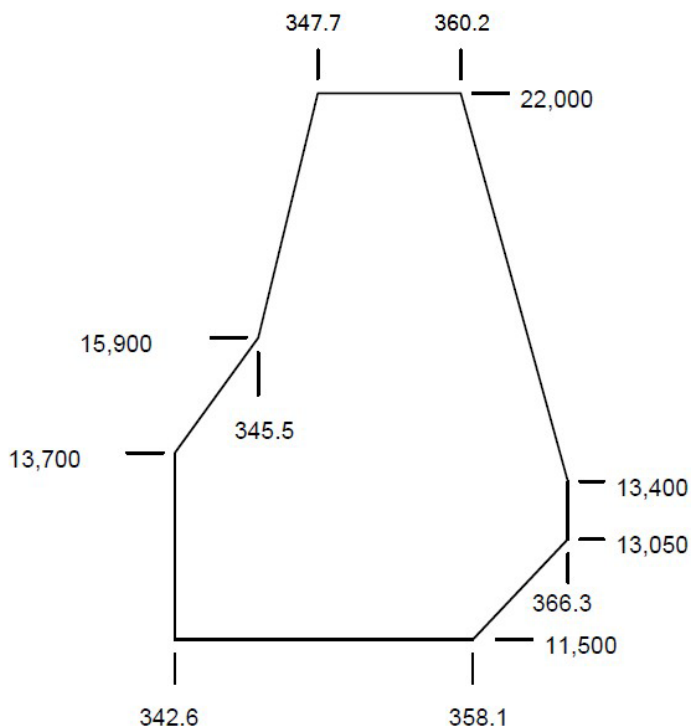
V_{ne} Power on: 193 knots IAS, (221 MPH). See document RFM-BFS-500 "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopter", Revision IR, Dated Aug. 10, 2016, or later FAA-approved revision for variations of V_{ne} with gross weight, pressure altitude, and temperature and for additional data.

C.G. RANGE

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INCHES AFT OF DATUM

EMPTY WEIGHT C.G. RANGE: None

DATUM: 341.2 inches forward of the main rotor centroid.

LEVELING MEANS: Plumb bob in L/H cabin door frame to leveling plate on cabin floor. Ref. Work Package 1727 contained in TM 1-1570-237-23.

MAXIMUM WEIGHT: 20,250 lbs. *See NOTE 14 for additional configuration requirements.

MINIMUM CREW: 2 (pilot, copilot) at Sta. 227.1

NO. OF PASSENGERS: None. *See NOTE 11 for information on personnel carrying restrictions.

NUMBER OF SEATS: 2 at Sta. 227.1; 1 at Sta. 262.0; 3 at Sta. 282.0; 3 at Sta. 320.7; 4 at Sta. 339.8; 4 at Sta. 387.2. Refer to RFM-BFS-500 "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopter", Revision IR, Dated July 1, 2016, or later FAA-approved revision for seat configuration and loading information.

OTHER LIMITS: Refer to RFM-BFS-500 "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopter", Revision IR, Dated Aug. 10, 2016, or later FAA-approved revision. Flight hours are counted from takeoff to landing.

FUEL CAPACITY: 361.5 gallons; 2 tanks (LH & RH interchangeable).
359.7 gallons; 2 tanks (LH & RH interchangeable) (with fuel boost pumps installed). At Sta. 420.75

OIL CAPACITY: 7 quarts each engine at Sta. 375.0.

SERIAL NO. APPROVED: U.S. military surplus UH-60A Blackhawk helicopters as identified in Billings Flying Service Inc. Serial Number Approved Report Number RPT-BFS-502, Rev. NC dated June 1, 2016, or later FAA-approved revision

CERTIFICATION BASIS:	<p>14 CFR Part 21 § 21.25(a)(2) for the special purposes listed in FAR 21.25 (b)(1)(2)(7) as defined below.</p> <ul style="list-style-type: none"> (1) § 21.25(b) (1) Agriculture Operations (2) § 21.25(b) (2) Forest & Wildlife Conservation (3) § 21.25(b) (7) External Loads <p>Note: In accordance with § 36.1(a) (4), compliance with the noise requirements was not shown. Therefore, aircraft certificated under this type certificate are only eligible for agricultural operations as defined by § 137.3, aerial dispensing of liquids and forest conservation material defined under § 137.3, or external loads as defined in 133.1(b).</p> <p>Any alteration to the aircraft for Special Purposes not identified above require further FAA approval and in addition, may require noise and/or flight testing.</p> <p>This aircraft is approved for Day or Night VFR operations only. Flight into known icing conditions is prohibited.</p> <p>General Note: Any subsequent modifications to the helicopters type certified under this Type Certificate are to have the certification basis for that modification established under 14 CFR part 21 § 21.101. Non-significant modifications are to meet the requirements of 14 CFR § 29 dated February 1, 1965, including Amendments 29-1 through 29-17, (amendments effective as of 12/1/1978) and § 29.1529, Instructions for Continued Airworthiness, Amendment 20, effective September 11, 1980.</p>
DATE OF APPLICATION:	January 27, 2016
PRODUCTION BASIS:	None. No helicopters may be produced under this approval. No helicopter serial number may be added to this type certificate unless approved by the cognizant Aircraft Certification Office.
EQUIPMENT:	The basic required equipment necessary for the particular special purpose operation must be installed for certification. In addition, the following items of equipment must be on board the helicopter and available to the crew: "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopter", Document number RFM-BFS-500, Revision IR, Dated Aug. 10, 2016, or later FAA-approved revision
NOTE 1:	A current weight and balance report, including a list of equipment included in the certified empty weight, and loading instructions when necessary, must be provided for each helicopter at the time of original airworthiness certification.
NOTE 2:	All placards required by either the FAA-approved Rotorcraft Flight Manual. the applicable operating rules, or the Type Certification Data, must be installed on the helicopter. Required placards are contained in Billings Flying Service Inc. drawings listed in MDL-BFS-500, Revision NC, dated June 1, 2016, or later FAA-approved revision, or any applied technical bulletins.
NOTE 3:	The helicopter(s) must be serviced, maintained, inspected, repaired and overhauled in accordance with the requirements specified in Billings Flying Service Inc. document no. ICA-BFS-500 "Instructions for Continued Airworthiness" Rev. Original, dated Aug. 10, 2016, or later FAA accepted revision, or inspected in accordance with other FAA accepted inspection programs. The service life limited parts overhaul and retirement intervals for these helicopters is specified in the FAA-Approved airworthiness limitation sections of the ICA-BFS-500. An FAA approved/accepted copy must accompany each helicopter on delivery.
NOTE 4:	This helicopter must be operated in accordance with the Operator Manual "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopter", Document number RFM-BFS-500, Revision IR, Dated Aug. 10, 2016, or later FAA-approved revision.
NOTE 5:	This aircraft is prohibited from carrying cargo for compensation or hire. Carriage of cargo is limited to such cargo that is incidental to the helicopter owner/operator's business, which is other than air transportation.
NOTE 6:	A Restricted Category helicopter may not be operated in a foreign country without the express written approval of that country.

NOTE 7:	This helicopter has not been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation.
NOTE 8:	Installation of T-700-GE-701D engines in accordance with Billings Flying Service Inc. Technical Bulletins TB-BFS-500-1, "T700-GE-701D/CC Engine Installation, Revision NC dated June 1, 2016, or later FAA-approved revision, and TB-BFS-500-2, "T700-GE-701D/CC Auto Relight and Transient Droop Improvement Installation, Revision NC dated June 1, 2016, or later FAA-approved revision, is approved for the model UH-60A helicopters under this type certificate. Performance information and limitations with T700-GE-701D/CC engines are contained in Chapter 7A of RFM-BFS-500 "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopter", Revision IR, Dated July 1, 2016.
NOTE 9:	The US Army Safety Messages that must be complied with for the helicopter and engine prior to certification are contained in Billings Flying Service Inc. Engineering Configuration Report document RPT-BFS-500, Revision NC, dated June 1, 2016, or later F AA-approved revision.
NOTE 10:	Alternative and emergency fuels are listed in document no. RFM-BFS-500 "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopter", Revision IR, Dated Aug. 10, 2016, or later FAA-approved revisions
NOTE 11:	No person may be carried onboard this aircraft unless that person is a flight crewmember: is a flight crewmember trainee: performs an essential function in connection with a special purpose operation for which the aircraft is certificated: or is necessary to accomplish the work activity directly associated with that special purpose. Reference 14 CFR §91.3I 3(d).
NOTE 12:	Any alteration to the type design of this aircraft may require Instructions for Continued Airworthiness. Changes to the type design by means of a Supplemental Type Certificate requiring ICAs or changes to existing ICAs must be submitted and received by the Fort Worth Aircraft Evaluation Group (FTW-AEG). Type design changes by means of an FAA field approval that require ICAs must have those ICAs reviewed by the Flight Standards District Office managing the field approval or the FTW-AEG.
NOTE 13:	No helicopter may obtain a Restricted Category Airworthiness Certificate under this type certificate unless it is included in the "Serial No. Approved" list above.
NOTE 14:	UH-60A maximum gross weight can be extended from 20,250 pounds to 22,000 pounds only when wedge mounted pitot-static probes and either/or MWO 55- 1520-237-50-58 or MWO 1-1520-237-50-73 are installed in accordance with the "Weight Limitations" listed in Section 5.14 of RFM-BFS-500 "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopter", Revision IR, Dated Aug. 10, 2016 or later FAA-approved revision.
NOTE 15:	The builder's data plate must be installed in accordance with Billings Flying Service Inc. MDL-BFS-500, Revision NC, dated June 1, 2016, or later FAA -approved revision.