

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

R00020LA
PJ Helicopters Inc.

UH-60A

July 17, 2015

TYPE CERTIFICATE DATA SHEET R00020LA

This data sheet, which is a part of Type Certificate No. R00020LA 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 (TC) PJ Helicopters Inc.
HOLDER: 903 Langley Way
 Red Bluff, CA 96080

I-Model UH-60A (Restricted Category Military Surplus Helicopter) Approved July 17, 2015

ENGINES: (2) General Electric T700-GE-700 Original
 (2) General Electric T700-GE-701C Alternate
 (2) General Electric T700-GE-701D Alternate

FUEL: Aviation Kerosene JP-4, JP-5, JP-8, Jet A, Jet A-1 or Jet B.

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-701C)

	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

ENGINE LIMITS: (T700-GE-701D)

	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
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TRANSMISSION LIMITS:
(UH-60A)

TORQUE:
110% Single Engine (No time limit)
100% Dual Engine (No time limit)

ROTOR LIMITS:

<u>Power Off</u>	<u>Power On</u>
Max 265 RPM (110%)	Max. 258 RPM (107 %)
Min 217 RPM (90%)	Min. 232 RPM (96%)

AIRSPPEED LIMITS:

V_{ne} Power on: 193 knots IAS, (221 MPH). See PJ Helicopters Inc. document RFM-PJ-001, "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopters" for variations of V_{ne} with gross weight, pressure altitude, and temperature.

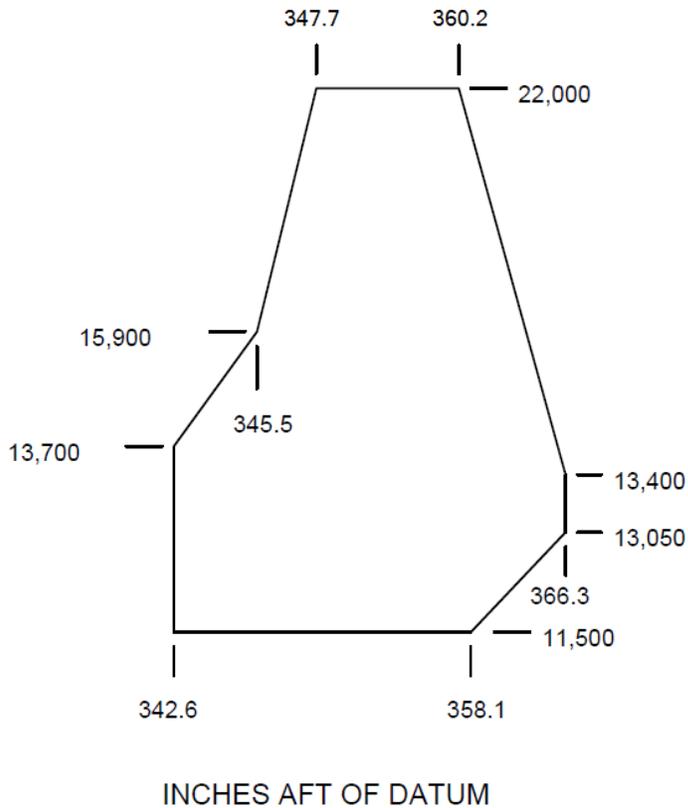
Refer to document no. RFM-PJ-001, "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopters", Rev. IR, dated July 13, 2015 or later FAA approved revisions for additional limitation data.

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EMPTY WEIGHT (C.G.)

Maintain aft C.G. limits when adding fuel.

DATUM:

341.2 inches forward of the main rotor centroid.

MAXIMUM WEIGHT:

22,000 lbs.

MINIMUM CREW:

2 (pilot, copilot)

MAXIMUM COMPARTMENT CARGO:	<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Compartment C <u>Sta 247 to Sta 288</u> 6460 lbs.</td> <td style="text-align: center;">Compartment D <u>Sta 288 to Sta 343</u> 8370 lbs.</td> <td style="text-align: center;">Compartment E <u>Sta 343 to Sta 398</u> 8370 lbs.</td> </tr> </table>	Compartment C <u>Sta 247 to Sta 288</u> 6460 lbs.	Compartment D <u>Sta 288 to Sta 343</u> 8370 lbs.	Compartment E <u>Sta 343 to Sta 398</u> 8370 lbs.
Compartment C <u>Sta 247 to Sta 288</u> 6460 lbs.	Compartment D <u>Sta 288 to Sta 343</u> 8370 lbs.	Compartment E <u>Sta 343 to Sta 398</u> 8370 lbs.		
NUMBER OF SEATS:	2 at Sta. 227.1; 2 at Sta. 282.0; 3 at Sta. 320.7; 4 at Sta. 339.8; 4 at Sta. 387.2.			
FUEL CAPACITY:	361.5 gallons; 2 tanks (LH & RH interchangeable). 359.7 gallons; 2 tanks (LH & RH interchangeable) (with fuel boost pumps installed).			
OIL CAPACITY:	7 quarts each engine.			
SERIAL NO. APPROVED:	U.S. military surplus UH-60A helicopters as identified in PJ Helicopters Inc. report Serial Number Approved Report Number RPT-PJ-001-1, Rev. IR dated July 14, 2015 or later FAA approved revision.			
CERTIFICATION BASIS:	<p>Part 21 § 21.25(a)(2) effective February 1, 1965, including Amendments 21-1 through 21-92 for the special purposes listed below:</p> <p>§ 21.25(b) (1) Agriculture Operations § 21.25(b) (2) Forest & Wildlife Conservation § 21.25(b) (7) External Loads</p> <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 agriculture operations and forest and wildlife conservation (aerial dispensing of fire fighting materials) as defined in § 137.3 and 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>Aircraft are certified for Day-Night Visual Flight Rules operations only.</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 published June 7, 2000 which became effective June 10, 2003. Otherwise non-significant modifications are to meet the requirements of 14 CFR § 29 dated February 1, 1965, including Amendments 29-1 through 29-18, effective March 6, 1980 and 14 CFR § 29.1529, Instructions for Continued Airworthiness, Amendment 20, effective September 11, 1980.</p>			
DATE OF APPLICATION:	February 3, 2015			
PRODUCTION BASIS:	None. No helicopters may be produced under this approval. Each helicopter must pass a conformity inspection in accordance with this TCDS, plus any additional special instructions attached to the Request for conformity, FAA 8120-10. In addition, a flight check must be accomplished by the Type Certificate holder or its agent of the flight characteristics in accordance with PJ Helicopters Inc. document no. FTP-PJ-001, "Flight Test Plan", Rev. IR, dated May 13, 2015, or later FAA Approved revision.			
EQUIPMENT:	The basic required equipment necessary for the particular special purpose operation must be installed for certification.			
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: The following placards must be prominently displayed in the cockpit in full view of the pilots:
- Placard No. 1
- THIS HELICOPTER MUST BE OPERATED IN COMPLIANCE WITH THE OPERATING LIMITATIONS SPECIFIED IN THE APPROVED HELICOPTER OPERATIONS MANUAL.
- Placard No. 2
- THIS ROTORCRAFT MUST BE OPERATED IN ACCORDANCE WITH THE RESTRICTED CATEGORY OPERATING LIMITATIONS OF 14 CFR PART 91.313.
- Placard No. 3
- EXTERNAL LOADS OPERATIONS: V_{ne} WILL BE DETERMINED FOR EACH PROPOSED EXTERNAL LOAD APPLICATION.
- NOTE 3: The builder's data plate required by part 45 § 45.13 must be installed in accordance with PJ Helicopters Inc. Drawing PJ-001-1, Rev. NC dated June 3, 2015, or later FAA approved revisions.
- NOTE 4: The helicopter(s) must be serviced, maintained, inspected, repaired and overhauled in accordance with the requirements specified PJ Helicopters Inc. document no. ICA-PJ-001 "Instructions for Continued Airworthiness", Revision A dated July 16, 2015 or later FAA accepted revision, or maintained in accordance with any other FAA accepted maintenance programs. The service life limited parts retirement intervals for these helicopters is specified in the FAA approved airworthiness limitations section of PJ Helicopters Inc. document no. ICA-PJ-001, "Instructions for Continued Airworthiness" Revision A dated July 16, 2015. A FAA approved/accepted copy must accompany each helicopter on delivery.
- NOTE 5: This helicopter must be operated in accordance with the Operator Manual comprised of the following:
- (1) PJ Helicopters Inc. approved document no. RFM-PJ-001 "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopters", Revision IR, dated July 13, 2015 or later FAA approved revisions.
- NOTE 6: Prior to obtaining an original Airworthiness Certificate:
- A. Each helicopter must pass a conformity inspection in accordance with PJ Helicopters Inc. document no. RPT-PJ-001-2 "Engineering Configuration", Revision IR dated June 3, 2015 or later FAA approved revision. The Engineering Configuration Report identifies the U.S. Army airframe changes, and special purpose modifications accomplished on that particular helicopter.
 - B. Each helicopter must pass an inspection for any possible hidden damage and the Military records reviewed for acceptability of any repairs or alterations.
 - C. The maintenance, overhaul, and modification records of each helicopter must be reviewed for military changes that may affect the airworthiness of the helicopter. Modifications and changes of equipment that affect the safety or performance of the helicopter must be approved by the Federal Aviation administration.
 - D. After the required inspections, the aircraft must be found to be in a good state of preservation, repair, and in a condition for safe operation.

- NOTE 7: A restricted category helicopter may not be operated in a foreign country without the express written approval of that country.
- NOTE 8: 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 9: A replacement engine may be installed provided it is of the same make and model as the engine that was removed or is a make and model listed as an alternate engine in the Instructions for Continued Airworthiness. The replacement engine must have its data plate or equivalent markings installed and its complete historical records available.
- NOTE 10: Alternative and emergency fuels are listed in PJ Helicopters Inc. document no. RFM-PJ-001, "Rotorcraft Flight Manual for UH-60A Blackhawk Helicopters", Revision IR, dated July 13, 2015 or later FAA approved revision.
- NOTE 11: 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 ICA's or changes to existing ICA's must be submitted and received by the Fort Worth Evaluation Group (FTW-AEG). Type design changes by means of an FAA Field Approval that require ICA's must have those ICA's reviewed by the Flight Standards District Office managing the Field Approval or the FTW-AEG.
- NOTE 12: The certification life limits for the helicopter, its engine and appliances were based on satisfactory service history as operated and maintained by the military. Therefore, to operate and maintain the aircraft to the original acceptance criteria, and maintain it's safe for intended use requirement, cycle counting and operational time tracking is required on certain critical components. Reference PJ Helicopters Inc. document no. ICA-PJ-001. "Instructions for Continued Airworthiness" Rev. A, dated July 16, 2015, or later FAA approved revisions.
- NOTE 13: No person may be carried in this helicopter during flight unless the person is essential to the purpose of the flight.
- NOTE 14: This aircraft is prohibited from carrying cargo for compensation or hire unless it is incidental to the approved special purpose.

END