UNITED KINGDOM
CIVIL AVIATION AUTHORITY

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ROBINSON
TYPE R22

TYPE CERTIFICATE DATA SHEET No. FR18

This data sheet is a part of CAA Type Certificate No. FR18 and gives the basis upon which the certificate was issued, together with other information to define the product.

Aircraft Manufacturer:	Robinson Helicopter Company 2901 Airport Drive Torrance California 90505 United States of America
Models to which the Certificate relates:	Robinson R22, R22 Alpha, R22 Beta, R22 Mariner

CERTIFICATION BASIS

The following requirements were the basis of certification of the type design:

United States of America requirements FAR Part 27 including Amendments 27-1 to 27-10 inclusive, and the requirements of the United Kingdom CAA Additional Requirements document Ref. 9/31/08942/G0001.

FLIGHT MANUAL

The limitations, recommended procedures and information required are contained in the R22 Pilot's Operating Handbook (RTR-061) with CAA Supplement No. 1 (for all R22s), Robinson Supplement No. 4 with CAA Change Sheet No. 2 for R22 Mariner only, Robinson Supplement No. 7 with CAA Change Sheet No. 4 for R22 Beta with Lycoming 0-360-J2A only and Robinson Supplement No. 8 with CAA Change Sheet No. 6 for R22 Mariner with Lycoming 0-360-J2A only.

AIRWORTHINESS CATEGORY

UK: Transport Category (Passenger) – All models.

PERFORMANCE GROUP

UK: Group B.

MINIMUM CREW

UK: One pilot.

MAXIMUM NUMBER OF OCCUPANTS

Number of persons, including crew, not to exceed two. The number is limited by the capacity of the fuselage.

ROTORS

Main rotor:	Robinson P/N A005-2 with A016-2 blade
Tail rotor:	Robinson P/N A008-2

POWER-UNITS

One Avco Lycoming:	0-320 A2B or A2C – R22 (‘Standard’ version) 0-320 B2C – R22 (‘HP’ version) 0-320 B2C – R22 Alpha, R22 Beta, R22 Mariner 0-360-J2A-R22 Beta, R22 Mariner

FUEL CAPACITY

Main Tank:	16 Imp. gallons usable, 0.5 Imp gallons unusable, total 16.5 Imp gallons.
Auxiliary Tank: (Optional)	8.7 Imp. gallons usable, 0.4 Imp. gallons unusable, total 9.1 Imp. gallons.

OIL CAPACITY

The capacity of the engine oil system is 10 Imp. pints.

MAXIMUM WEIGHTS

Maximum take-off and landing weight:	1300 lb (589.6 kg)	- R22
	1370 lb (621.3 kg)	- R22 Alpha R22 Beta R22 Mariner.

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