UNITED KINGDOM
CIVIL AVIATION AUTHORITY

FR21
Issue 5
September 2003
E.H. INDUSTRIES LTD
EH101-500
EH101-510

TYPE CERTIFICATE DATA SHEET NO. FR21

This data sheet which is part of CAA Type Certificate No. FR21, prescribes conditions and limitations under which the product, for which the type certificate was issued, meets the airworthiness requirements of the Civil Aviation Authority.

TYPE CERTIFICATE HOLDER:

E.H. INDUSTRIES LTD
PYMARID HOUSE
SOLARTRON ROAD
FARNBOROUGH
HANTS
GU14 7QL

MANUFACTURER:

Westland Helicopters Ltd
Yeovil
Somerset, BA20 2YB
ENGLAND

Costruzione Aeronautiche Giovani Agusta
21017 Cascina Costa di Samarate
ITALY

AIRCRAFT TYPE DESIGNATION:

EH101-500
EH101-510

TYPE DESIGN DEFINITION:

EHA 1538, Issue 5, Revision C [-500]
EC00X007J, Issue 6, Revision A [-510]

CERTIFICATION BASIS:

[-500]:-

BCAR
Section A Issue 26
Section G Issue 9
Section N Issue 4
Section R Issue 4

Blue Papers

G235	Miscellaneous Amendments derived from BCAR Section D.
G774	Installation Assumptions involved in Engine Type Certification.
R727	Aircraft Systems Display of Channel Data.
R729	Aircraft Radio Installations in Turbine Helicopters.

Working Papers

G610	Issue 2 (WD)	Flight in precipitation and ice-forming conditions.
G707	Issue 1 (WD)	Electrical Supply Systems and Equipment
G778	Issue 2 (WD)	Sub-Section G4 - Design and Construction Chapter G4-9 -Rotor and Transmission System.

Working Papers

G779	Issue 1 (WD)	Emergency Alighting on Water
G780	Issue 1 (WD)	Rotorcraft Categories
G785	Issue 1 (WD)	Revision of Chapters G6-6 and G4-3 Launching and Boarding Liferafts.
G786	Issue 2 (lst Draft)	Compartment Fire Precaution Chapter G4-3.
G805	Prelim.Draft (lst draft of Issue 1)	Emergency Alighting - Protection of Occupants
G809	Issue 1 (WD)	Sub-Section G7 - Rotor and Transmission System Tests Chapter G7-4 - Ground and Flight Tests - Multi Turbine Installations
G811	Issue 1	Health Monitoring

Special Conditions

EH101/1	Flight Manual Performance
EH101/2	External Radiation Threat
EH101/3	Lightning Protection, Indirect Effect
EH101/4	Wheel Brakes
EH101/5	Yaw Manoeuvre
EH101/6	Forward Speed
EH101/7	Bird Strike
EH101/8	Torching Flame Exemption

[-510]:-

JAR-29 Large Rotorcraft issued 5 November 1993 (Refer to Certification Review Item CRI A1)

Minus:

JAR 29.561	“Crash inertia factors” replaced by Additional Condition AC1 issue 3.
JAR 29.562	“Seat dynamic testing”.
JAR 29.563	“Structural ditching provisions” replaced by Additional Condition AC2 issue 2.
JAR 29.571	“Fatigue evaluation of structure” replaced by FAR 29.571 to Am. 27.
JAR 29.785	“Seat, berths, safety belts and harnesses” and
JAR 29.787	“Cargo and baggage compartments” replaced by Additional Condition AC3 issue 1.
JAR 29.901(b)(1)(i)	“Engine installation instructions” replaced by FAR 29.901(b)(1)(i) to Am. 27.
JAR 29.901(c)	“Engine rotor failure” replaced by FAR 29.901(c) to Am. 27.
JAR 29.952	“Fuel system crashworthiness” replaced by Additional Condition AC4 issue 2.
JAR 29.1019(a)(2)	“Engine oil filter” replaced by FAR 29.1019(a)(2) to Am. 27.

Plus:

Special Condition EH101-011	“High Intensity Radiation Frequencies (HIRF)”
Special Condition EH101-013	“Indirect Effects of Lightning”

Equivalent safety findings for the following requirements:

JAR 29.351	JAR 29.1303(g)(2)
JAR 29.613	JAR 29.1305(a)(8)
JAR 29.779(c)	JAR 29.1305(a)(18)
JAR 29.807	JAR 29.1305(a)(21)
JAR 29.903(b)(1)	JAR 29.1555(c)(2)
JAR 29.1141(f)(2)	JAR 29.1555(d)(2)
JAR 29.1143(a)	

CERTIFICATION CATEGORY: Transport Category (Passenger)

PERFORMANCE CATEGORY: Category A

FLIGHT MANUAL: [-500] EU02X002A
[-510] EU02X501A

ENGINE: General Electric GE CT7-6A : FAA TCDS E8NE

AUXILIARY POWER UNIT: Sundstrand T-62T-40C7EH :
CAA Validation 9/80/APS500/CO1/1-A
of FAA TSO C-77(a) Authorisation & JAR APU Change 2,
Category 1 (Essential) unit.

MAXIMUM WEIGHTS: **[-500]**

	Lb	Kg
Maximum Taxying weight	31,504	14,290
Maximum take-off weight	31,504	14,290
Maximum landing weight	31,504	14,290

[-510]

	Lb	Kg
Maximum Taxying weight	32,408	14,700
Maximum take-off weight	32,187	14,600
Maximum landing weight	32,187	14,600

DIMENSIONS: **[-500] & [510]**

	Ft	M
Length	74.8	22.8
Rotor diameter	61.0	18.6
Height	20.7	6.3

MINIMUM CREW: Two(2) Pilots

MAXIMUM OCCUPANTS/PASSENGERS: The maximum occupants including 2 pilots and 1 cabin attendant is 33 (thirty three).

OPERATING LIMITATIONS: The operating limitations are contained in Section 1 of the Approved Flight Manual.

MANDATORY MAINTENANCE INSTRUCTIONS: E.H. Industrie Document No. ED02P211J [-500]
EC02P022J [-510]

NOISE: Noise Type Certificate No. 190.

EMERGENCY AVIONIC SYSTEM: **(FDR, CVR, ADELT)**	The Emergency Avionic System is not fully compliant with JAR OPS Rules (Ref CRI F-3).

Note: This certification is valid only for aircraft that are registered as civil aircraft within states that are contracted to the Convention on International Civil Aviation.

- END -