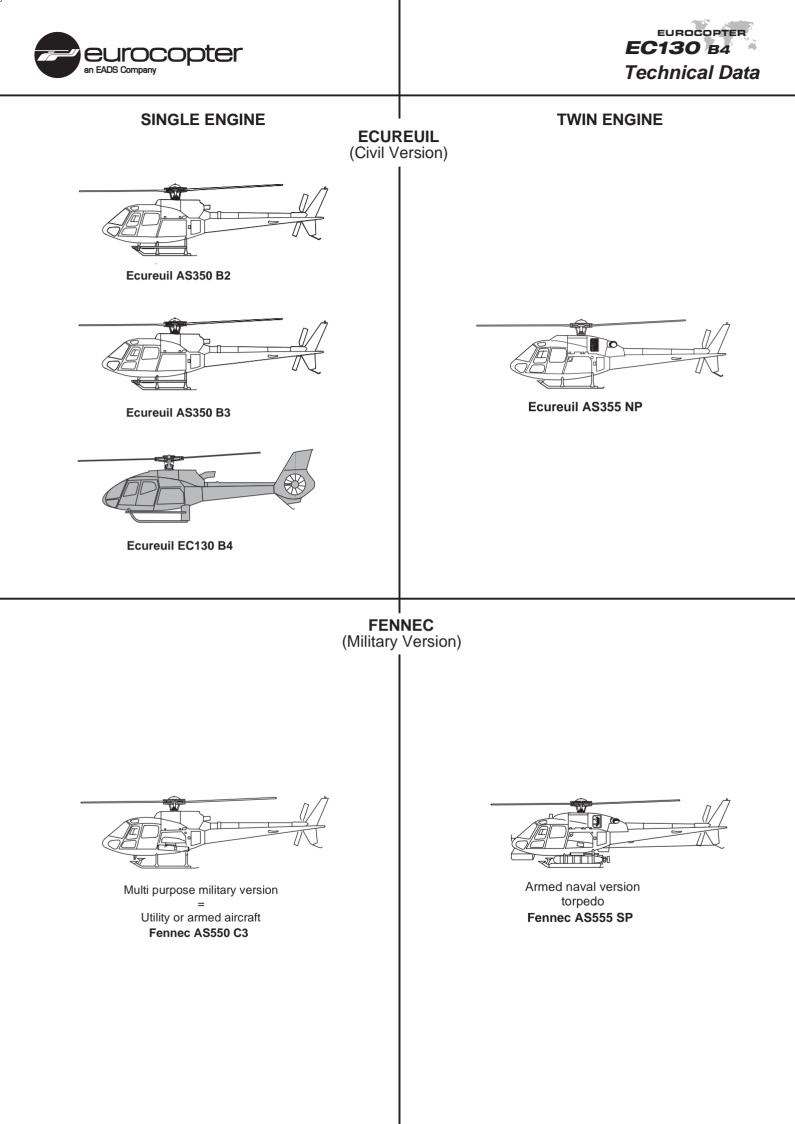




Technical Data









Contents

1 - Foreword	3
2 - General characteristics	4
3 - Baseline Aircraft Definition	11
4 - Recommended mission configurations	13
5 - Optional equipment	21
6 - Main performance	29
7 - Customer Service Overview	49

Manufacturers notice

Attention !

EUROCOPTER, *its logo*, AS350, EC130, ALOUETTE, ECUREUIL, FENESTRON, INDOC, STARFLEX, STYLENCE, VEMD, *are trade marks of the Eurocopter group*.

Eurocopter's policy is one of on-going product enhancement which means that alterations in definition, pictures, weights, dimensions or performance may be made at any time without notice being included in those documents that have already been issued.

This document cannot thus be taken as an offer or serve as an appendix to a contract without a prior check as to its validity and prior written agreement of EUROCOPTER.

The operational or certification regulations, as defined by the local authorities, can make compulsory the installation of some of the equipment and recommended solutions, listed in this document. This list does not claim to cover the whole of the worldwide operational requirements nor the equipment not specifically related to the helicopter (for example : life jacket) or necessary for particular missions (for example : supplemental oxygen). The operator is responsible for ascertaining with his local authorities that the planned configuration of the helicopter complies with regulatory requirements for the area(s) of operations and the type(s) of mission(s) considered.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E





Blank

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E





1- Foreword



The light single-engine EC130 B4 is the quietest, most spacious helicopter available on the market. It fulfils the JAR 27 issue 1 regulation for VFR operation by day and night 1. With a Maximum Gross Weight of 2,427 kg /5,531 lb, the EC130 B4 is perfectly suited for the following missions:

- Corporate use,
- Passenger transport,
- Tour operations,
- Utility,
- Emergency Medical Services (EMS / AMS),

The ultra-quiet EC130 B4 integrates the latest technological advances of EUROCOPTER's new generation helicopters: a new 7/8 seats enlarged cabin with enhanced comfort, a new tail boom with quiet FENESTRON shrouded tail rotor, a dual channel FADEC unit plus a third independent and automatic channel for engine control, an automatic variable rotor speed control for noise reduction, a dual hydraulic system and energy attenuating seats for each occupant. It has been designed to be environmental friendly, with an optimal external noise pattern. It is one of the few aircraft meeting the very stringent noise level required in the United States to fly over National Parks (GCNP). A high component community with EUROCOPTER light helicopters' range results in a helicopter that is easy and affordable to maintain, increasing fleet versatility. With its large cabin volume and high performance level, this "light truck" is the replacement of former ALOUETTE III.

To optimise the Man-Machine Interface the helicopter is basically fitted with the VEMD (Vehicle and Engine Multifunction Display) on the instrument panel. The EC130 B4 is powered with a TURBOMECA ARRIEL 2B1 engine of 847 shp (632 kW) and equipped with a dual channel FADEC system (Full Authority Digital Engine Control), and third back-up control system. Therefore it offers the same world-beating performance parameters, as the AS350 B3.

¹ by night, in VFR, when the equipment required by operational regulations are installed and serviceable.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.





General Characteristics 2-

Layout

- Passenger-transport
 - 1 pilot + 6 passengers in standard version 1
 - 1 pilot + 7 passengers in "medium density" version
- Casualty-evacuation
 - 1 pilot + 1 or 2 stretcher patients + 2 medical attendants
 - 2 pilots + 1 stretcher patient + 2 medical attendants
- Cargo carrying
 - 1 pilot + 3.7 m³ (130.7 ft³) load in cabin
- Equipment

Complete 7 seats interior + trims + carpets included in standard Ready to operate radio package included in standard :

- 2 VHF •
- 2 VOR / LOC / GLIDE
- 1 GPS
- 1 ELT
- 1 XPD mode A + C
- 1 ICS capable of 8 outlets
- 1 ADI
- 1 HSI

Weights

Note : Empty weight accuracy : within \pm 2 %	kg	lb
 Empty weight, baseline aircraft (including engine oil and unusable fuel) 	1,377 <mark>2</mark>	3,036
■ Useful load	1,050	2,315
Maximum all-up weight	2,427	5,351
Maximum cargo-swing load	1,160	2,557
 Maximum all-up weight in external load configuration 	2,800	6,172

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 4

130 B4 08.101.01 E

¹ If required by the local airworthiness authorities, the capacity can be limited to 1 pilot + 5 passengers.

² Empty weight according to baseline aircraft definition, as defined in pages 11 and 12, including the avionics suite.





Power plant

1 TURBOMECA ARRIEL 2B1 turbine engine

Engine ratings

Thermodynamic Power, in standard atmosphere, at sea level :	kW	ch	shp
■ Take-off power	632	860	847
 Maximum continuous power 	543	739	728

Usable Fuel capacities

	litres	US gal.	kg	lb
Standard fuel tank	540	143	426	939

External noise

In accordance with ICAO annex 16, chapter 8

86,8 EPNdB	(- 7.0 dB / average ICAO limit)	
84,3 EPNdB	(- 8.5 dB / ICAO limit) (- 0.5 dB / GCNP 1 noise rule 6 PAX)	
		84,3 EPNdB (- 8.5 dB / ICAO limit)

Internal noise

The noise in the cabin is also improved in order to increase pilot and passengers comfort. Measures have been realised on a standard aircraft and give the following mean levels :

- 81.3 dB SIL4 2 in hover inside ground effect
- 86.1 dB SIL4 in cruise flight at 120 kts

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

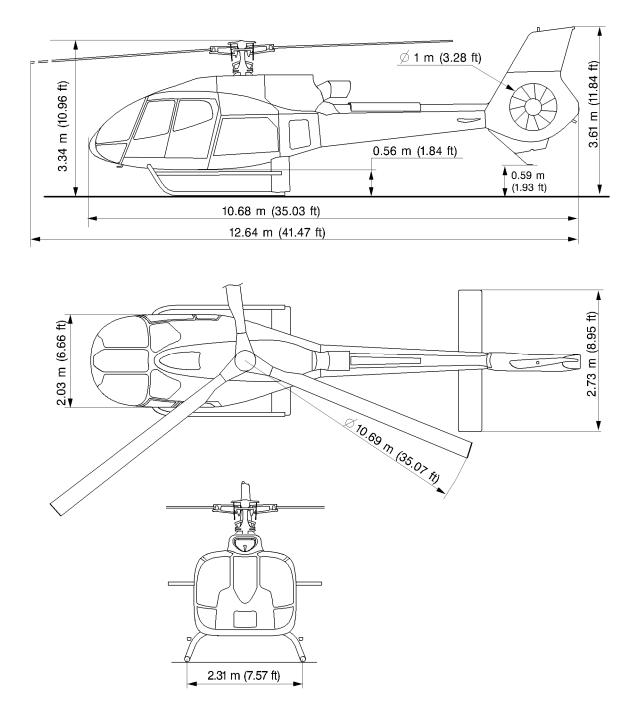
¹ GCNP = Grand Canyon National Park.

² The method of sound level measurement used is Speech Interference Level (dB SIL4). This is the arithmetic average of 4 octave (0.5, 1.0, 2.0 and 4.0 kHz) levels specified in dBlin (linear decibels). This particular set of octaves corresponds to the human voice frequency range and thus allows to evaluate the interference with passenger communication.





Main dimensions



The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

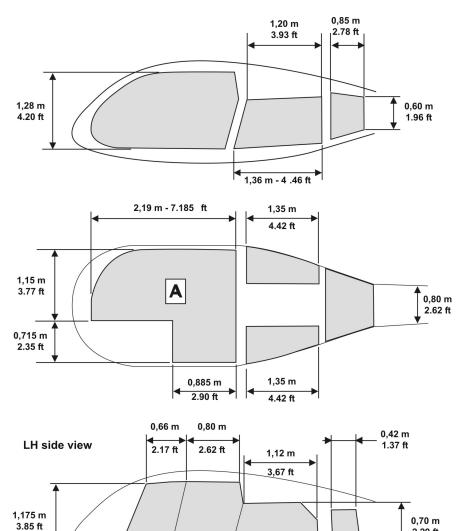
6





Dimensions of compartments and accesses

Cabin main dimensions



CABIN		
Surface A	3,00 m² 32.3 ft²	
Volume	3.7 m³ 130.7 ft³	

LH HOLD		
Surface	0.52 m² 5.60 ft²	
Volume	0.285 m³ 10.06 ft³	

RH HOLD		
Surface	0.43 m²	
В	4.63 ft ²	
Volume	0.245 m³	
	8.65 ft³	

REAR HOLD		
Surface	0.55 m² 5.92 ft²	
Volume	0.565 m³ 19.95 ft³	

TOTAL HOLDS		
Surface	1.50 m² 16.15 ft²	
Volume	1.095 m³ 38.66 ft³	

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 7

130 B4 08.101.01 E

0,84 m

2.76 ft

0,92 m

3.02 ft

This document is the property of EUROCOPTER[®]; no part of it shall be reproduced or transmitted without the express prior written authorization of EUROCOPTER[®] and its contents shall not be disclosed. 🛚 EUROCOPTER-2008

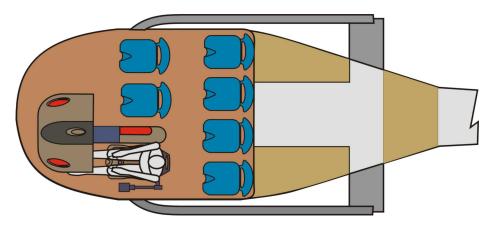
2.29 ft



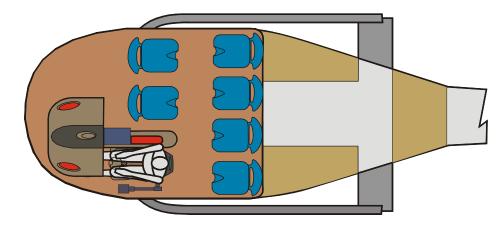


Configurations

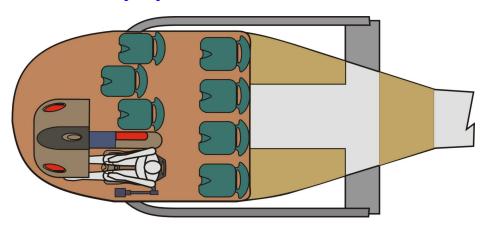
Standard Layout



Club seating Layout



Medium density Layout 1



1 Cabin lay-out if the option "8 Energy-absorbing seats lay-out" is fitted.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 130 B4 08.101.01 E 8

This document is the property of EUROCOPTER [®] : no part of it shall be reproduced or transmitted without the express prior written authorization of EUROCOPTER [®] and its contents shall not be disclosed. © EUROCOPTER-2008





Standard Cabin Lay-out and upholstery

The EC130 B4 offers an enlarged cabin floor, allowing comfortable accommodation for the pilot and 6 passengers on individual energy-absorbing seats. The rear seats are slightly elevated to offer a better visibility to the passengers.



STYLENCE Cabin Lay-out and upholstery (optional)





Note: EC130 B4 in STYLENCE upholstery configuration.

Enlarged cargo holds



The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 130 B4 08.101.01 E 9





Other characteristics

TURBOMECA ARRIEL 2B1 turbine engine



- 847 shp (632 kW) take-off power
- Triple engine control : one dual channel FADEC (Full Authority Digital Engine Control) unit plus a third independent and automatic back up channel
- Optimized engine ratings according to outside operations conditions thanks to electronic governing system (FADEC)
- Optimized engine monitoring through the VEMD
- Automatic starting sequence

VEMD (Vehicle and Engine Multifunction Display)

- Full colour LCD display
- Fully duplex equipment
- Self monitoring at one glance
- First Limitation Indication (FLI) with aural warning
- Mission parameters calculation
- Engine cycle counting
- Engine health monitoring

Noise reduction



The outstanding noise reduction is given by :

- Automatic variable rotor speed control
- quiet FENESTRON shrouded tail rotor



The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.





3- EC130 B4 ECUREUIL - Baseline Aircraft Definition

The helicopter in the definition, presented hereafter, meets the certification standards for day and night VFR operations, set by the following airworthiness authorities : EASA, FAA, TC. This list is not restrictive and the status of approval by other airworthiness authorities must be checked. Additional equipment item may be required by the relevant operational regulation (most of them are available in catalogue).

GENERAL

- The EC130 B4[®] is certified with a pilot being on the left side
- The standard aircraft is delivered with left side controls and fixed parts of the removable dual controls (the removable parts of removable dual controls are optional)
- Fuselage comprising the cabin and 3 luggage holds, with floor tiedown nets and access doors
- Tail boom with stabilizer, FENESTRON[®] type anti torque rotor, and tail skid
- Tubular skid landing gear, with replaceable skid shoes, with long footsteps (on right and on left side), profiler on rear tube, capable of taking handling wheels

CABIN

- Cabin floor in light-alloy sheet-metal
- 2 pilot and copilot high-back energy-absorbing seats, adjustable in reach, removable, complete with cushions, safety belts and shoulder harnesses
- 1 passenger high-back energy-absorbing seat (front right), removable, complete with cushions, safety belt and shoulder harness
- 4 passenger high-back energy-absorbing seats (rear row), removable, complete with cushions, safety belts and shoulder harnesses fitted on a removable frame bolted on the cabin floor
 2 pilot and copilot jettisonable doors
- 1 LH front door fitted with a sliding window
- 1 RH large front door
- 1 LH rear sliding door
- 1 RH rear fixed panel
- Locks on every access to cabin and luggage compartments
- Lock on fuel cap

INSTRUMENTS

- Instruments units : available in either metric or English units
- 1 airspeed indicator
- 1 altimeter
- 1 vertical speed indicator
- 1 LCD rotor and free turbine dual indicator
- 1 clock
- 1 warning panel
- 1 magnetic compass
- 1 heated pitot head
- 1 external side slip indicator
- 1 control box for light and electrical generation
- 1 cockpit breaker panel
- 1 ICS connection to audio warning issued from VEMD[®]

- Lifting points
- Mooring fixtures
- External paint : fuselage according to standard paint schemes. Unless modified by optional item, the main rotor head and tail rotor covers are painted in grey, the skid landing gear in dark grey and the *FENESTRON*[®] duct in light grey
- Internal paint : light grey (prevailing colour)
- Interior signs and markings : available in either French or English
- Lateral and upper tinted windows (windscreen excluded)
- 2 tinted upper panes
- 1 ceiling housing the cabin lighting, 7 air ventilation outlets and controls (ventilation controls, rotor brake and fuel cut-off)
- Capabilities for mandatory optional item : air conditioning or ventilation systems
- Cabin heating
- Demisting system for front windscreen
- 2 pilot map cases
- Doors upholstery panels
- Floor carpet
- Rear bulkhead and lateral rear upholstery
- 1 fire-extinguisher
- 1 Flight Manual
- Interior harmony according to definition in force
- 1 LCD dual screen Vehicle and Engine Multifunction display (VEMD[®]) providing the following information :
 - First limitation indicators (FLI)
 - torguemeter
 - exhaust gas temperature (T4)
 - ◆ gas generator tachometer (Ng, delta Ng)
 - Engine oil temperature, pressure,
 - Fuel quantity and fuel flow and estimated remaining time to fly
 - Ammeter and voltmeter
 - Outside air temperature
 - Enhanced usage monitoring functions
 - IGE/OGE performance calculations
 - engine cycle counting
 - engine power check
 - overlimits display
 - VEMD[®] and peripheral maintenance information
 - Data downloading capability (software and connection wire as option)

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 07.100.01 E

11





AVIONICS

- 1 avionics master switch
- 1 gyro-horizon
- 1 gyro-compass with
- 1 horizontal Situation Indicator
- 1 turn and bank indicator
- 1 VHF/VOR/LOC/GS

POWER PLANT

- 1 Turboméca ARRIEL 2B1 632 kW (850 ch 847 shp) turbine engine complete with starting, fuel supply and dual channel digital engine control system (FADEC) and 1 back-up fuel control box that automatically controls the engine in case of a total failure of the 2 digital channels of the FADEC
- 1 fuel system including 1 tank of 540 liters (143 US gal.) total capacity
- 1 twist grip on pilot side (for engine reduction in case of tail rotor failure and autorotation training)

TRANSMISSION SYSTEM

- 1 main gearbox, anti-vibration mounted, with oil sight gauge, chip detector, oil temperature and pressure switches, port for endoscope and self sealing valve for oil sampling and draining
- 1 main gearbox oil cooling system
- 1 engine to main gearbox coupling shaft
- 1 rotor brake

ROTORS AND FLYING CONTROLS

- 1 main rotor with 3 composite-material blades around a STARFLEX[®] head fitted with spherical thrust bearings
- 1 anti-torque rotor (FENESTRON[®]) with 10 asymmetrical blades, integrated in vertical fin

ELECTRICAL INSTALLATION

- One 150 A, 28 VDC starter-generator
- One 15 A.h cadmium-nickel battery
- 1 ground power receptacle
- 3 position lights (LED)
- 1 flashing anti-collision light (LED)
- 2 fixed landing lights

AIRBORNE KIT (*)

- 1 pitot head cover
- 2 static port stoppers
- 1 engine air-intake blanking cover
- 1 tail-pipe plug
- 2 ground handling bogies c/w hydraulic jacking system

(weight not included in standard aircraft empty weight)

1 lifting ring

(*)

- 1 VHF/VOR/LOC/GS/GPS 1 transponder (mode A+C)
- 1 altitude encoder
- 1 Emergency Locator Transmitter (2 frequencies)
- 1 ICS + passenger interphone
- 1 magnetic plug and chip detector
- 1 engine lubrication and oil cooling system
- 1 fire detection system
- 1 air-intake protective grids
- 1 torque-measurement pick-up
- Capabilities for sand filter
- 1 main rotor high and low r.p.m. warning device
- . 1 tail drive carried by five anti-friction bearings
- 1 tail gearbox with oil sight gauge, chip detector and port for endoscopic inspection
- 3 main rotor hydraulic servo units (duplex servos)
- 2 independent hydraulic generation systems
- 2 cabin light sets, each with 2 reading lights for 2 rear passengers and 1 dome light
- 1 instrumentation lighting system
- Integrated lighting in central console
- 1 reading map light on upper canopy strut for pilot
- One 28 V DC cabin power outlet

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 07.100.01 E

12

- - 2 upper mooring rings
 - 3 main-blade socks
 - 1 document holder
 - 1 airborne kit stowage bag
 - Manuals (CD ROM)





4- Recommended mission configurations

EUROCOPTER proposes different mission configurations for its helicopters. This pre-selected list of optional equipment should be regarded as a recommended minimum equipment list and can be complemented by additional equipment from the optional equipment list in chapter 5. Please take note that there can be incompatibilities between optional equipments. Any modification and/or complement of the proposed mission configuration must be done in with assistance of a *EUROCOPTER* sales representative.

The proposed mission configurations are done by *EUROCOPTER* using its years of experience in making helicopters and in coordination with different operators of the *EC130 B4* around the world. For the *EC130 B4* the recommended mission configurations are:

- Passenger transport mission
- Corporate transport mission (*STYLENCE*).

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations,reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E





4-1 Passenger transport mission

The *EC130 B4* with its FENESTRON shrouded fan tail rotor is one of the most silent helicopters flying nowadays. Its very low noise level is 7 dB under the limits defined by the Grand Canyon National Park rule.



The helicopter has been designed with the occupants in mind. Each passenger is comfortably seated on individual and comfortable seats. The wide and unobstructed cabin with very high visibility offers the passengers an excellent view for both the front as the rear passengers. The rear passengers' seats are placed on a raised platform to provide ensure this excellent view.



Using the technologies of the well-known *ECUREUIL* family, the *EC130 B4* has an exceptional high rate of availability. All these elements make the *EC130 B4* therefore the benchmark for passenger transport and tourism helicopters.

Weights

Note : Empty weight accuracy : within \pm 2 %	kg	lb
 Empty weight, Passenger transport mission configuration (including engine oil and unusable fuel) 	1,460	3,219
Useful load	967	2,132
Maximum all-up weight	2,427	5,351
Maximum cargo-swing load	1,160	2,557
 Maximum all-up weight in external load configuration 	2,800	6,172

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E	14
This document is the property of EUROCOPTER [®] ; no part of it shall be reproduced	r transmitted without the express prior written authorization of EUROCOPTER® and its contents shall not be disclosed. © EUROCOPTER-2008





Mission configuration

Document reference	Commercial reference	Name	kg	lb
		EC130 B4 Baseline aircraft as per 130 B4 07.100.01 E	1,377.0	3,036.0
General Eq	uipment			
05-02007-A	05-02007-00-CI	Extra charge for customized external paint - level 1 1 - 2	5.0	11.0
05-03003-A	05-03003-00-CI	First aid kit 3	1.8	4.0
05-23005-A	05-23005-00-CI	Engine wash	0.8	1.8
05-27001-A	05-27001-00-CI	Cabin fire-extinguisher 4	1.7	3.7
05-31033-A	05-31033-00-CI	Sun protected upper windows	2.0	4.4
05-37015-A	05-37015-00-CI	Dual controls	2.6	5.7
05-42025-A	05-42025-01-CI	Air conditioning system with reinforced front air distribution 5	43.0	94.8
Specific Mi	ssion Equipmen	t		
06-27003-A	06-27003-00-FP	Cargo swing 1,160 kg – 2,557 lb - Fixed Parts	5.1	11.2
06-42017-A	06-42017-00-CI	Landing light adjustable in site and azimuth 6	4.3	9.5
06-61006-A	06-61006-00-FP	Emergency floatation gear - Fixed Parts 6 - 7	3.6	7.9
Avionics				
		Standard VFR day and night package (included in E	Baseline Ai	rcraft)
		Thales H321EGM - Gyro-horizon 8		
		Honeywell KCS55A - Gyro Compass with		
		Honeywell KI525A - Horizontal Situation Indicator 9		
		UI 9560 - Turn and Bank indicator		
		Honeywell KX165A - VHF/VOR/LOC/GS		
		Garmin GNS430 - VHF/VOR/LOC/GS/GPS 10		
		Garmin GTX327 - Transponder (mode A+C)		
		Shadin 8800T - Altitude Encoder		

Kannad 121AF-H - Emergency Locator Transmitter 11

Garmin GMA340 - ICS 12 - 13

Configuration continued on next page...

- 1 The paint scheme must be approved at the latest 3 months before the delivery of the helicopter.
- 2 Paint scheme comprising a basic shade and 2 or 3 additional shades, with straight separation lines, apart from standard paint schemes.
- 3 Recommended for public transport mission. Its content is the buyer's responsibility as it may vary according to geographical region or applicable regulations.
- 4 If type is accepted by local regulations.
- 5 It is mandatory to select one of the two optional items 05-42025-01-Cl or 05-44004-00-Cl.
- 6 May be a mandatory equipment, required by local airworthiness authorities or operational regulations.
- 7 When the removable parts are not fitted on the aircraft, a part of the fixed parts representing 2 kg 4.4 lb can be easily dismounted (less than one working day).
- 8 With slip indicator included when the Turn and Bank indicator is replaced by the stand-by gyro-horizon.
- 9 With a selector switch for NAV1/NAV2 selection.
- **10** Delivered with EUROPE map. Subscription to be made by the customer.
- 11 2 frequencies : 121.5 MHz, 243 MHz. Compliant with ED 62 and TSO C91A.
- 12 Includes the passenger interphone function.
- **13** I.C.S. compatible only with High level / High impedance headsets.
 - The headsets of the passengers should be of the same mark and the same model.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

15





Document reference	Commercial reference	Name	kg	lb
Avionics				
06-67031-A	06-67031-01-CI	Kannad 406AF-H - Emergency Locator Transmitter 1 - 2 instead of Kannad 121AF-H - Emergency Locator Transmitter	0.1	0.2
08-22019-A	08-22019-01-CI	Garmin GTX330 - Transponder (mode S) 2 - 3 instead of Garmin GTX327 - Transponder (mode A+C)	0.7	1.5
08-51019-A	08-51019-01-CI	Thales H321EGM - Stand-by gyro-horizon 2- 4 instead of UI 9560 - Turn and Bank indicator	3.1	6.8
08-18035-A	08-18035-00-CI	David Clark H10-13H – Headset (Qty. 7) 5	3.5	7.7
08-21008-A	08-21008-01-CI	Thales AHV16 - Radio altimeter 2	5.6	12.3
08-83017-A	08-83017-00-CI	VEMD data download kit 6 - 7	_	_

7 Delivered in addition to the airborne kit, the kit includes two software and a connection wire.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

^{1 3} frequencies : 121.5 MHz, 243 MHz, 406 MHz. Compliant with ED 62 and TSO C91A.

The Programming Data Sheet must be filled and communicated by the customer two months at the latest before the helicopter's delivery.

² May be a mandatory equipment, required by local airworthiness authorities or operational regulations.

³ The mode S identification must be communicated by the customer two months at the latest before the delivery.

⁴ Fitted with independent battery.

⁵ High level / High impedance headset.

⁶ Allows compliance to JAR OPS 3 Amendment 3 requirement, as defined in Appendix 1 to JAR OPS 3.517 (a) and (b)(5)(i). Requires absolute time data, given through a compatible connection with serviceable GPS equipment (Compliance achieved with the standard aircraft as defined on pages 11 and 12).





Blank

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E





4-2 Corporate transport mission (STYLENCE)

In the corporate configuration, the *EC130 B4* can transport up to seven passengers in roominess and comfort that is usually not found in a light helicopter. A large sliding door and the long boarding steps along both sides of the helicopter allow easy access to the cabin. The passengers are seated on forward facing energy absorbing seats



The additional *STYLENCE* package offers a high level of finishing to the interior of the helicopter. It is available in six different colours (brick, aubergine, camel, graphite, silver and marine).



Weights

Note : Empty weight accuracy : within \pm 2 %	kg	lb
 Empty weight, Corporate transport mission configuration (including engine oil and unusable fuel) 	1,507	3,322
Useful load	920	2,028
Maximum all-up weight	2,427	5,351
Maximum cargo-swing load	1,160	2,557
 Maximum all-up weight in external load configuration 	2,800	6,172

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E	18
This document is the property of $EUROCOPTER^{\texttt{e}};$ no part of it shall be rep	ced or transmitted without the express prior written authorization of EUROCOPTER® and its contents shall not be disclosed. © EUROCOPTER-2008





Mission configuration

Document reference	Commercial reference	Name	kg	lb
		EC130 B4 Baseline aircraft as per 130 B4 07.100.01 E	1,377.0	3,036.0
Mission Pa	ckage			
00-50015-В	00-50015-03-CI	STYLENCE package 1	102.0	225.0
General Eq	uipment			
05-23005-A	05-23005-00-CI	Engine wash	0.8	1.8
05-25027-A	05-25027-00-CI	Enhanced Engine Air Particle Separators 2	7.1	15.7
05-37015-A	05-37015-00-CI	Dual controls	2.6	5.7
Specific Mi	ssion Equipmen	t		
06-27003-A	06-27003-00-FP	Cargo swing 1,160 kg – 2,557 lb - Fixed Parts	5.1	11.2
06-42017-A	06-42017-00-CI	Landing light adjustable in site and azimuth 3	4.3	9.5
06-61006-A	06-61006-00-FP	Emergency floatation gear - Fixed Parts 3 - 4	3.6	7.9
Avionics				
		Standard VFR day and night package (included in	Baseline A	ircraft)
		Thales H321EGM - Gyro-horizon 5		
		Honeywell KCS55A - Gyro Compass with Honeywell KI525A - Horizontal Situation Indicator 6		
		UI 9560 - Turn and Bank indicator		
		Honeywell KX165A - VHF/VOR/LOC/GS		
		Garmin GNS430 - VHF/VOR/LOC/GS/GPS 7		
		Garmin GTX327 - Transponder (mode A+C)		
		Shadin 8800T - Altitude Encoder		

Kannad 121AF-H - Emergency Locator Transmitter 8

Garmin GMA340 - ICS 9 - 10

Configuration continued on next page...

8 2 frequencies : 121.5 MHz, 243 MHz. Compliant with ED 62 and TSO C91A.

10 I.C.S. compatible only with High level / High impedance headsets.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

19

¹ For the content of the STYLENCE package, please refer to page 21 of this Technical Data.

² Capabilities included in standard aircraft. The sand filter authorises the flight under falling snow.

³ May be a mandatory equipment, required by local airworthiness authorities or operational regulations.

⁴ When the removable parts are not fitted on the aircraft, a part of the fixed parts representing 2 kg - 4.4 lb can be easily dismounted (less than one working day).

⁵ With slip indicator included when the Turn and Bank indicator is replaced by the stand-by gyro-horizon.

⁶ With a selector switch for NAV1/NAV2 selection.

⁷ Delivered with EUROPE map. Subscription to be made by the customer.

⁹ Includes the passenger interphone function.

The headsets of the passengers should be of the same mark and the same model.





Document reference	Commercial reference	Name	kg	lb
Avionics				
06-67031-A	06-67031-01-CI	Kannad 406AF-H - Emergency Locator Transmitter 1 - 2 instead of Kannad 121AF-H - Emergency Locator Transmitter	0.1	0.2
08-22019-A	08-22019-01-CI	Garmin GTX330 - Transponder (mode S) 2 - 3 instead of Garmin GTX327 - Transponder (mode A+C)	0.7	1.5
08-18035-A	08-18035-00-CI	David Clark H10-13H – Headset (Qty 2) 4	1.0	2.2
08-18043-A	08-18043-00-CI	Bose Aviation X headset (Qty 5)	2.5	5.5

130 B4 08.101.01 E

¹ 3 frequencies : 121.5 MHz, 243 MHz, 406 MHz. Compliant with ED 62 and TSO C91A.

The Programming Data Sheet must be filled and communicated by the customer two months at the latest before the helicopter's delivery.

May be a mandatory equipment, required by local airworthiness authorities or operational regulations. 2

The mode S identification must be communicated by the customer two months at the latest before the delivery. 3

⁴ High level / High impedance headset.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.





1,479 kg - 3,261 lb

5- Optional equipment

5-1 Mission package

EUROCOPTER proposes one mission package, specially designed for passenger transport, offering an high level of finishing.

This package must be regarded as a whole and its content cannot be modified nor sold separately.

Document reference	Commercial reference	Name
00-50015-B	00-50015-02-CI	STYLENCE package
		Extra charge for customized external paint – level 2 1
		Sun protected upper windows
		Air conditioning system with reinforced front air distribution
		ICS installation compatible with Bose Aviation X headset
		Layout STYLENCE, including mainly
		 Light grey internal paint
		 Front seats upholstered in leather, with casing made of carbon fiber and leather storage pouch
		Rear seats upholstered in leather with fairing of the lower part
		Integrated door case covered with light grey leather
		 Cabin carpet with additional foam
		 Carpet edge protection
		Set of over-carpets
		 Upholstery panels on the front structure
		New demisting ramp
		Console upholstery
		Lateral upholstery panels on the ceiling
		 Rear partition covered with light grey leather
		 New rear bulkhead ledge
		 Carpet baggage bay floor covering
		 Protection covers for seats
		 Protection cover for carpet
The STYLENC	CE lavout is availab	le in 6 colour schemes :
Brick		□ Camel □ Graphite □ Chocolate □ Marine

EC130 B4 STYLENCE configuration empty weight :

The aircraft equipped empty weight is correct to ± 2 %. According to aircraft equipment, ballast may be required to accommodate various mission configurations.

1 Sophisticated paint scheme with finishing of superior quality, possibility of varnished finishing.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations,reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E





5-2 List of optional equipment

This chapter includes all the optional equipment that can be selected to customize the *EC130 B4* helicopter. Please take note that there can be incompatibilities between optional equipments. Any configuration made by using this list of optional equipment should be made with the assistance of the latest issue of the Table of Constraints, or validated by a *EUROCOPTER* sales representative.

Note : value of the weight breakdown is given for information and shall not be considered as contractual.

General equipment

Document reference	Commercial reference	Name	kg	lb
05-01024-A	05-01024-00-CI	Russian certification kit	4.0	8.8
05-02007-A	05-02007-00-CI	Extra charge for customized external paint - level 1 1 - 2	5.0	11.0
05-02008-A	05-02008-00-CI	Extra charge for customized external paint - level 2 1 - 3	5.0	11.0
05-02009-A	05-02009-00-CI	Extra charge for highly customized external paint 1 - 4	On re	quest
05-02010-A	05-02010-00-CI	Extra charge for varnished external paint	On re	quest
05-03003-A	05-03003-00-CI	First aid kit 5	1.8	4.0
05-21002-A	05-21002-00-CI	Wire strike protection system	5.3	11.7
05-23005-A	05-23005-00-CI	Engine wash	0.8	1.8
05-24005-A	05-24005-00-CI	High visibility blades paint scheme	0.1	0.2
05-25027-A	05-25027-00-CI	Enhanced Engine Air Particle Separators 6	7.1	15.7
05-25029-A	05-25029-00-CI	Heavy duty blade pins 7	0.0	0.0
05-27001-A	05-27001-00-CI	Cabin fire-extinguisher 8	1.7	3.7
05-30001-A	05-30001-00-CI	Copilot's map-reading light	0.3	0.7
05-31002-A	05-31002-00-CI	Sliding window on RH front door	0.1	0.2
05-31033-A	05-31033-00-CI	Sun protected upper windows	2.0	4.4
05-37015-A	05-37015-00-CI	Dual controls	2.6	5.7
05-37020-A	05-37020-00-CI	Full option pilot cyclic control stick	0.4	0.9
05-37021-A	05-37021-00-CI	Full option copilot cyclic control stick	0.4	0.9
05-42025-A	05-42025-01-CI	Air conditioning system with reinforced front air distribution 9	43.0	94.8
05-44004-A	05-44004-00-CI	Cabin ventilation system 9	5.8	12.8
05-61008-A	05-61008-00-CI	2nd battery kit	17.0	37.5
05-63007-A	05-63007-00-CI	APC 180 A starter-generator	1.6	3.5
05-63002-A	05-63002-02-CI	Thales Avionics 200 A starter-generator	1.1	2.4
05-63005-A	05-63005-00-CI	Thales Avionics 150 A starter-generator instead of APC standard one	-0.6	-1.3
05-92016-A	05-92016-00-FP	Folding of main rotor blades - Fixed Parts	1.8	4.0
	05-92016-00-RP	Folding of main rotor blades - Removable Parts	—	—

¹ The paint scheme must be approved at the latest 3 months before the delivery of the helicopter.

8 If type is accepted by local regulations.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

22

² Paint scheme comprising a basic shade and 2 or 3 additional shades, with straight separation lines, apart from standard paint schemes.

³ Paint scheme comprising a basic shade and up to 3 additional shades, with separation lines not straight or tangled up, with graduated shades or complicated emblem or logo to be hand-painted.

⁴ Sophisticated paint scheme with numerous shades, complex graduated shades, or complicated emblem or logo.

⁵ Recommended for public transport mission. Its content is the buyer's responsibility as it may vary according to geographical region or applicable regulations.

⁶ The sand filter authorises the flight under falling snow.

⁷ Recommended for operations in sandy and abrasive conditions.

⁹ It is mandatory to select one of the two optional items 05-42025-01-Cl or 05-44004-00-Cl.

The data set forth in this document are general in nature and for information purposes only.





Specific mission equipment

Document reference	Commercial reference	Name	kg	lb
06-11006-A	06-11006-00-CI	Heavy duty skid shoes	2.5	5.5
06-26002-A	06-26002-00-CI	External electric mirror	2.6	5.7
06-27002-В	06-27002-01-FP 06-27002-01-RP	Cargo sling 750 kg - 1,654 lb - Fixed Parts Cargo sling 750 kg - 1,654 lb - Removable Parts 1	2.2 2.8	4.8 6.2
06-27003-A	06-27003-00-FP 06-27003-00-RP	Cargo swing 1,160 kg – 2,557 lb - Fixed Parts Cargo swing 1,160 kg – 2,557 lb - Removable Parts 1	5.1 11.5	11.2 25.4
06-27016-A	06-27016-00-FP 06-27016-00-RP	Cargo swing 1,400 kg – 3,086 lb - Fixed Parts 2 Cargo swing 1,400 kg – 3,086 lb - Removable Parts 2	7.0 13.0	15.4 28.7
06-42017-A	06-42017-00-CI	Landing light adjustable in site and azimuth 3	4.3	9.5
06-61006-A	06-61006-00-FP 06-61006-00-RP	Emergency floatation gear - Fixed Parts 3 - 4 Emergency floatation gear - Removable Parts 3	3.6 57.4	7.9 126.5
06-74007-A	06-74007-00-CI	NVG compatible lighting for cockpit and standard avionics suite 2	0.1	0.2

Interior cabin layout

07-24005-A	07-24005-00-CI	8 Energy-absorbing seats layout 5 - 6	23.4	51.6
07-40013-A	07-40013-00-CI	Carpet edge protection	0.6	1.3
07-60022-A	07-60022-00-CI	Cargo tie-down rings in cabin	0.7	1.5

Availability from second half 2010.
 May be a mandatory equipment, re

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations,reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

¹ With Onboard Systems TALON hook.

³ May be a mandatory equipment, required by local airworthiness authorities or operational regulations.

⁴ When the removable parts are not fitted on the aircraft, a part of the fixed parts representing 2 kg - 4.4 lb can be easily dismounted (less than one working day).

⁵ When the aircraft is delivered with 8 seats, the rails for installing 7 seats are provided as loose equipment.

⁶ According to the aircraft configuration, ballast may be required to accommodate both pilot alone and one pilot + 7 passengers. The weight figure includes a ballast's average value of 4.8 kg - 10.6 lb (maximum value 12.8 kg - 28.2 lb).





Avionics

Single pilot VFR day and night Package included in baseline definition

Thales H321EGM - Gyro-horizon *1* Honeywell KCS55A - Gyro Compass with Honeywell KI525A - Horizontal Situation Indicator *2* UI 9560 - Turn and Bank indicator Honeywell KX165A - VHF/VOR/LOC/GS Garmin GNS430 - VHF/VOR/LOC/GS/GPS *3* Garmin GTX327 - Transponder (mode A+C) Shadin 8800T - Altitude Encoder Kannad 121AF-H - Emergency Locator Transmitter *4* Garmin GMA340 - ICS *5* - *6*

The baseline aircraft definition includes an avionics package as defined hereabove. Brands and models are given for information exclusively. EUROCOPTER reserves the rights to modify any brand or model constantly according to its policy in force.

Equipment that can replace a standard equipment

Document reference	Commercial reference	Name	kg	lb
06-67031-A	06-67031-01-CI	Kannad 406AF-H - Emergency Locator Transmitter 7 - 8 instead of Kannad 121AF-H - Emergency Locator Transmitter	0.1	0.2
08-22019-A	08-22019-01-CI	Garmin GTX330 - Transponder (mode S) <mark>8</mark> - 9 instead of Garmin GTX327 - Transponder (mode A+C)	0.7	1.5
08-51019-A	08-51019-01-CI	Thales H321EGM - Stand-by gyro-horizon 8 - 10 instead of UI 9560 - Turn and Bank indicator	3.1	6.8

1 With slip indicator included when the Turn and Bank indicator is replaced by the stand-by gyro-horizon.

2 With a selector switch for NAV1/NAV2 selection.

3 Delivered with EUROPE map. Subscription to be made by the customer.

- 4 2 frequencies : 121.5 MHz, 243 MHz. Compliant with ED 62 and TSO C91A.
- 5 Includes the passenger interphone function.
- 6 I.C.S. compatible only with High level / High impedance headsets.

The headsets of the passengers should be of the same mark and the same model.

7 3 frequencies : 121.5 MHz, 243 MHz, 406 MHz. Compliant with ED 62 and TSO C91A. The Programming Data Sheet must be filled and communicated by the customer two months at the latest before the helicopter's delivery.

8 May be a mandatory equipment, required by local airworthiness authorities or operational regulations.

9 The mode S identification must be communicated by the customer two months at the latest before the delivery.

10 *Fitted with independent battery.*

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

24





Additional Avionic equipment that <u>can be added</u> depending on operational needs or the requirements of the authorities in certain countries if not included in the standard package

Document reference	Commercial reference	Name	kg	lb
08-18024-A	08-18024-00-CI	Headset extension cord	0.1	0.2
08-18035-A	08-18035-00-CI	David Clark H10-13H - Headset 1	0.5	1.1
08-18037-A	08-18037-00-CI	ICS installation compatible with Bose Aviation X headset 2	1.0	2.2
08-18043-A	08-18043-00-CI	Bose Aviation X headset	0.5	1.1
08-21008-A	08-21008-01-CI	Thales AHV16 - Radio altimeter 3	5.6	12.3
08-51015-B	08-51015-01-CI	Thales H321EGM - Stand-by gyro-horizon 4 - 5	3.8	8.4
08-83017-A	08-83017-00-CI	VEMD data download kit 6 - 7	—	_

The radio/com/nav. equipment weight figures included in this chapter are average values. As the installation of those equipment may vary from one a/c to an other, the weight of a complete configuration with multiple items may not be the simple sum of all individual weights.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

¹ High level / High impedance headset.

² Includes ICS stereo jacks : in addition to the standard jacks for pilot and copilot and in replacement of the standard jacks for passengers. Provides electrical supply for the use of Bose X headset without battery pack.

³ May be a mandatory equipment, required by local airworthiness authorities or operational regulations.

⁴ Fitted with independent battery.

⁵ In addition to the standard Turn and bank indicator.

⁶ Allows compliance to JAR OPS 3 Amendment 3 requirement, as defined in Appendix 1 to JAR OPS 3.517 (a) and (b)(5)(i). Requires absolute time data, given through a compatible connection with serviceable GPS equipment (Compliance achieved with the baseline aircraft as defined on pages 11 and 12).

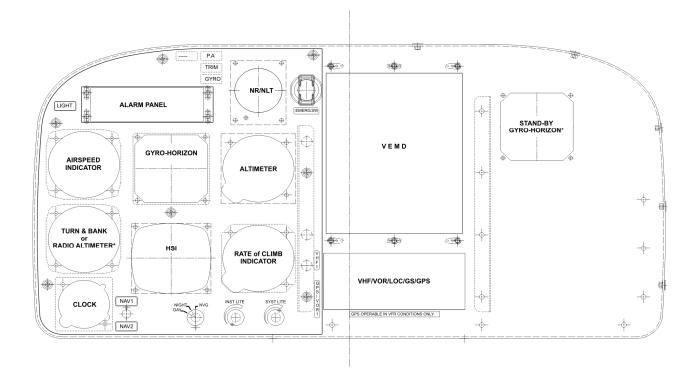
⁷ Delivered in addition to the airborne kit, the kit includes two softwares and a connection wire.

The data set forth in this document are general in nature and for information purposes only.





STANDARD INSTRUMENT PANEL LAYOUT



- * Optional equipment.
- Note: Layout given for information only and that can be modified later.
- Note: Instrument panel includes integrated lighting.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.





Equipment that may be required by operational regulations

The purpose of the following table is to summarise a list of available optional items of equipment — which may supplement the sales standard aircraft definition — in order to comply with the relevant operational regulations depending on the type of operations. This list must be considered as a reminder and does not claim to cover all operational requirements.

Document reference	Commercial reference	Name	kg	lb
05-03003-A	05-03003-00-CI	First aid kit 1	1.8	4.0
05-27001-A	05-27001-00-CI	Cabin fire-extinguisher 2	1.7	3.7
06-42017-A	06-42017-00-CI	Landing light adjustable in site and azimuth	4.3	9.5
06-61006-A	06-61006-00-FP 06-61006-00-RP	Emergency floatation gear - Fixed Parts 3 Emergency floatation gear - Removable Parts	3.6 57.4	7.9 126.5
06-67031-A	06-67031-01-CI	Kannad 406AF-H - Emergency Locator Transmitter 4 instead of Kannad 121AF-H - Emergency Locator Transmitter	0.1	0.2
08-18035-A	08-18035-00-CI	David Clark H10-13H - Headset 5	0.5	1.1
08-21008-A	08-21008-01-CI	Thales AHV16 - Radio altimeter	5.6	12.3
08-22019-A	08-22019-01-CI	Garmin GTX330 - Transponder (mode S) 6 instead of Garmin GTX327 - Transponder (mode A+C)	0.7	1.5
08-51015-B	08-51015-01-CI	Thales H321EGM - Stand-by gyro-horizon 7 - 8	3.8	8.4
08-51019-A	08-51019-01-CI	Thales H321EGM - Stand-by gyro-horizon 8 instead of UI 9560 - Turn and Bank indicator	3.1	6.8
08-83017-A	08-83017-00-CI	<i>VEMD</i> data download kit 9 - 10	—	_

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

¹ Recommended for public transport mission. Its content is the buyer's responsibility as it may vary according to geographical region or applicable regulations.

² If type is accepted by local regulations.

³ When the removable parts are not fitted on the aircraft, a part of the fixed parts representing 2 kg - 4.4 lb can be easily dismounted (less than one working day).

^{4 3} frequencies : 121.5 MHz, 243 MHz, 406 MHz. Compliant with ED 62 and TSO C91A. The Programming Data Sheet must be filled and communicated by the customer two months at the latest before the helicopter's delivery.

⁵ High level / High impedance headset.

⁶ The mode S identification must be communicated by the customer two months at the latest before the delivery.

⁷ Fitted with independent battery.

⁸ In addition to the standard Turn and bank indicator.

⁹ Allows compliance to JAR OPS 3 Amendment 3 requirement, as defined in Appendix 1 to JAR OPS 3.517 (a) and (b)(5)(i). Requires absolute time data, given through a compatible connection with serviceable GPS equipment (Compliance achieved with the baseline aircraft as defined on pages 11 and 12).

¹⁰ Delivered in addition to the airborne kit, the kit includes two softwares and a connection wire.

The data set forth in this document are general in nature and for information purposes only.





Blank

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

28





6- Main performance

The following performance values and figures refer to an *EC130 B4*. Unless otherwise specified, the values and figures refer to a **clean helicopter**, equipped with a **new engine**, at **Sea Level** (SL), in **International Standard Atmosphere** (ISA) and **zero wind** condition.

Note: The following data are extracted from the approved flight manual which is the reference for performance computation.

Performance

Gross Weight	kg	1,800	2,000	2,200	2,300	2,400	2,427
	lb	3,968	4,409	4,850	5,071	5,291	5,351
 Maximum Speed, VNE 	km/hr	287	287	287	287	287	287
	kts	155	155	155	155	155	155
 Fast cruise speed (at MCP) 	km/hr	250	248	244	242	240	240
	kts	135	134	132	131	130	130
Recommended cruise speed	km/hr	222	222	222	222	222	222
	kts	120	120	120	120	120	120
Fuel consumption	kg/hr	175	175	175	175	175	175
at fast cruise speed	lb/h	386	386	386	386	386	386
Fuel consumption	kg/hr	149	151.5	154	155.5	157	157.5
at recommended cruise speed	lb/h	328	334	340	343	346	347
Rate-of-climb	m/sec	11.6	10.9	10.1	9.6	9.1	9.0
	ft/min	2,290	2,155	1,995	1,905	1,805	1,770
Hover ceiling IGE at Take-off power							
• ISA	m	5,865	4,920	4,035	3,615	3,210	3,100
	ft	19,255	16,140	13,240	11,865	10,530	10,165
• ISA + 20°C	m	5,145	4,175	3,275	2,840	2,420	2,305
	ft	16,880	13,710	10,750	9,320	7,940	7,575
Hover ceiling OGE at Take-off power		10,000	10,710	10,700	0,020	7,040	1,010
 ISA 	m	5,360	4,400	3,505	3,075	2,650	2,535
	ft	17,590	14,435	11,505	10,090	8,695	8,325
		, i	, ,	ŕ	,	, i	
 ISA + 20°C 	m	4,610	3,630	2,705	2,260	1,830	1,715
	ft	15,130	11,915	8,875	7,415	6,000	5,630
Service ceiling (0.5 m/sec., 100 ft/min.)							
• ISA	m	>7,010	6,505	5,665	5,265	4,870	4,770
	ft	>23,000	21,345	18,585	17,275	15,980	15,655
• ISA + 20°C	m	6,645	5,675	4,755	4,300	3,855	3,735
	ft	21,805	18,625	15,605	14,120	12,655	12,260
Range							
(without reserve, at recommended cruise	km	644	635	625	620	615	610
speed)	nm	347	343	337	334	332	329
Endurance (without reserve)	hr : min	04:07	04:01	03:54	03:51	03:48	03:47
· · ·		1				-	

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

This document is the property of EUROCOPTER[®]; no part of it shall be reproduced or transmitted without the express prior written authorization of EUROCOPTER[®] and its contents shall not be disclosed. © EUROCOPTER-2008

29





Operating limitations

The helicopter is cleared to be operated within the following altitude and temperature limitations (according to Flight Manual). For complementary information, refer to Flight Manual.

- Maximum altitude 7,010 m - 23,000 ft (PA)
- ISA + 35 °C limited to + 50 °C Maximum temperature
- 40 °C Minimum temperature

Abbreviations

IGE :	In Ground Effect	SL :	Sea Level
ISA :	International Standard Atmosphere	TAS :	True Air Speed
MCP :	Maximum Continuous Power	TOP :	Take-Off Power
OGE :	Out of Ground Effect	VNE :	Never Exceed Speed
PA :	Pressure Altitude	Vz :	Rate-of-climb
Units nm : kts : ft/min : m/sec : ° C :	nautical miles knots feet per minute meters per second degrees Celsius	hr :min : kg : lb : km :	hours : minutes kilograms pounds kilometers

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E





Performance charts

The performance charts presented hereafter apply to an aircraft as per the baseline definition.

 Take-off weight in hover IGE, (height 5 ft, Maximum TOP, no wind) 	Page 32
 Take-off weight in hover OGE, (Maximum TOP, no wind) 	Page 33
 Fast cruise speed (ISA) 	Page 34
 Fast cruise speed (ISA + 20°C) 	Page 35
 Fast cruise speed (ISA + 35°C) 	Page 36
 Recommended cruise speed (ISA) 	Page 37
 Recommended cruise speed (ISA + 20°C) 	Page 38
 Recommended cruise speed (ISA + 35°C) 	Page 39
 Rate of climb in oblique flight (ISA) 	Page 40
 Rate of climb in oblique flight (ISA + 20°C) 	Page 41
 Rate of climb in oblique flight (ISA + 35°C) 	Page 42
 Hourly fuel consumption at fast cruise speed (ISA, ISA + 20°C, ISA + 35°C) 	Page 43
 Hourly fuel consumption at recommended cruise speed (ISA) 	Page 44
 Hourly fuel consumption at recommended cruise speed (ISA + 20°C) 	Page 45
 Hourly fuel consumption at recommended cruise speed (ISA + 35°C) 	Page 46
 Payload / Range (ISA, recommended cruise speed, without reserve) 	Page 47
 Payload / Range (ISA + 35°C, recommended cruise speed, without reserve) 	Page 48

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

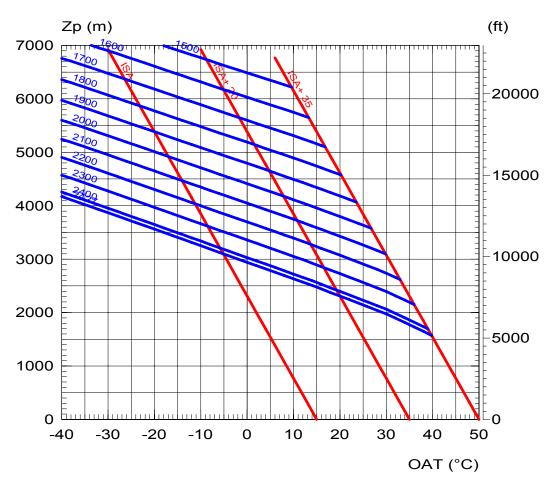




HOVER CEILING I.G.E.

at maximum TOP

(Height 5 ft)



Note : Approved performance, as long as the engine meets the power check criteria, as defined in the Flight Manual.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 32

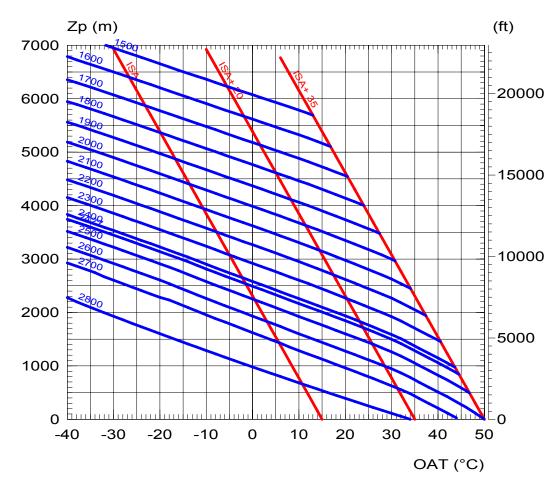
130 B4 08.101.01 E





HOVER CEILING O.G.E.

at maximum TOP



Note : ISO weight curves from 2,427 to 2,800 kg are curves with external load. Note : Approved performance, as long as the engine meets the power check criteria, as defined in the Flight Manual.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 33

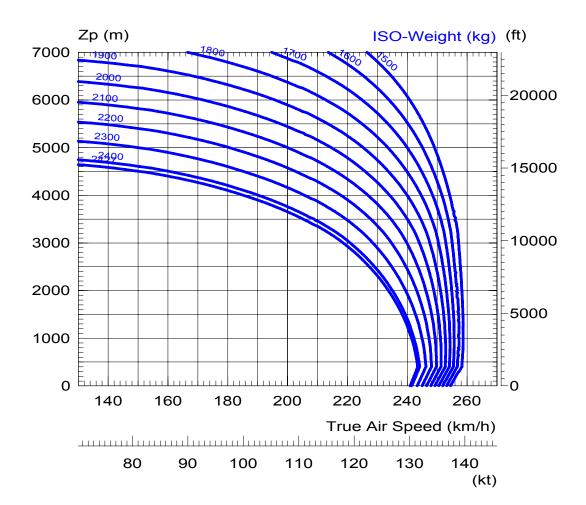
130 B4 08.101.01 E





FAST CRUISE SPEED

ISA



Typical performance, with clean baseline aircraft and new engine. Note :

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

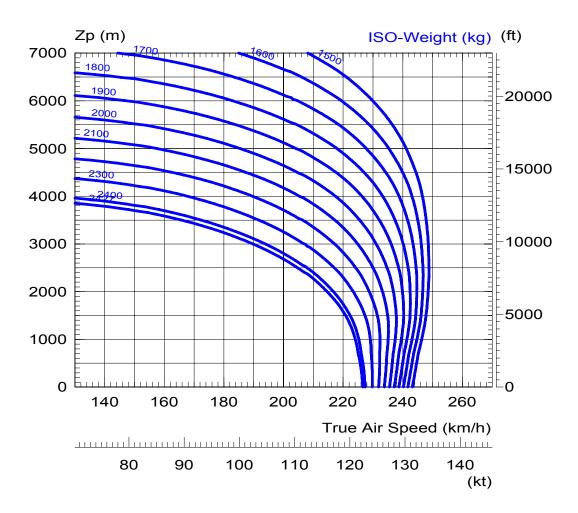
130 B4 08.101.01 E





FAST CRUISE SPEED

ISA+20°C



Note : Typical performance, with clean baseline aircraft and new engine.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

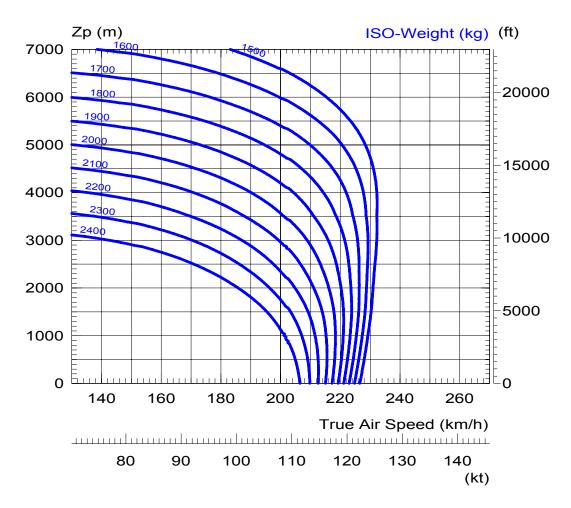
130 B4 08.101.01 E





FAST CRUISE SPEED

ISA+35°C



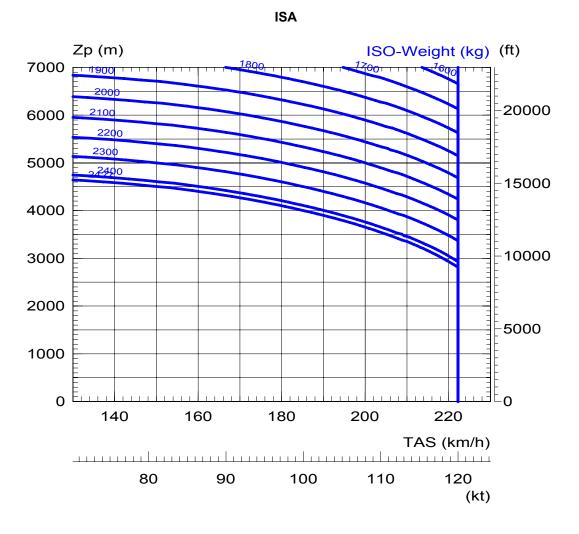
Note : Typical performance, with clean baseline aircraft and new engine.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.





RECOMMENDED CRUISE SPEED



Note : Typical performance, with clean baseline aircraft and new engine.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E





RECOMMENDED CRUISE SPEED

ISA+20°C

Zp (m) ISO-Weight (kg) (ft) -15000 230r -10000 -5000 ∃Ło TAS (km/h) _____ (kt)

Note : Typical performance, with clean baseline aircraft and new engine.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

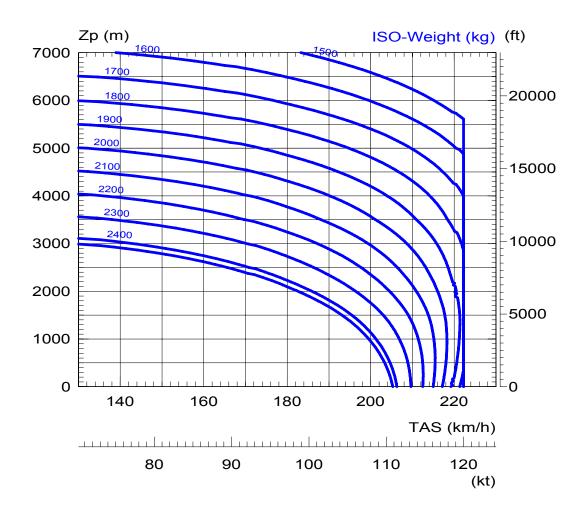
130 B4 08.101.01 E





RECOMMENDED CRUISE SPEED

ISA+35°C



Note : Typical performance, with clean baseline aircraft and new engine.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

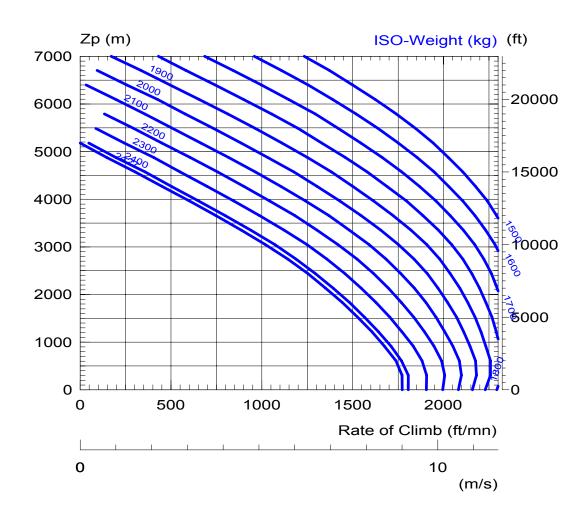
130 B4 08.101.01 E





RATE OF CLIMB IN OBLIQUE FLIGHT

ISA



Note : Approved performance, as long as the engine meets the power check criteria, as defined in the Flight Manual.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 40

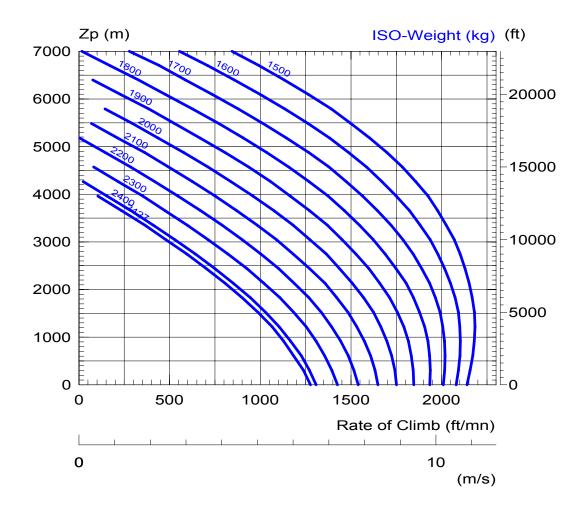
130 B4 08.101.01 E





RATE OF CLIMB IN OBLIQUE FLIGHT

ISA + 20°C



Note : Approved performance, as long as the engine meets the power check criteria, as defined in the Flight Manual.

The data set forth in this document are general in nature and for information purposes only.

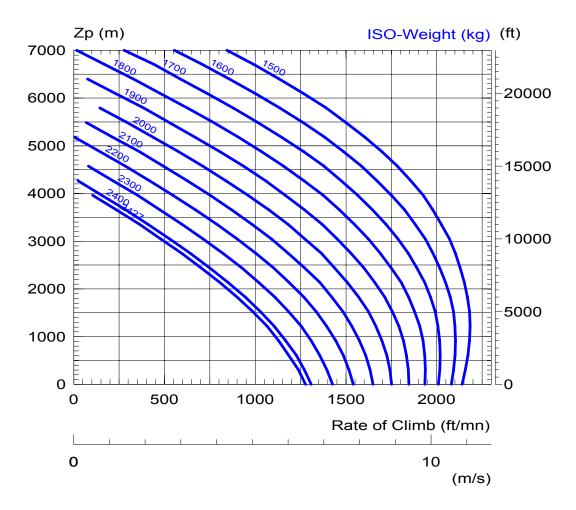
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.





RATE OF CLIMB IN OBLIQUE FLIGHT

ISA + 35°C



Note : Approved performance, as long as the engine meets the power check criteria, as defined in the Flight Manual.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 42

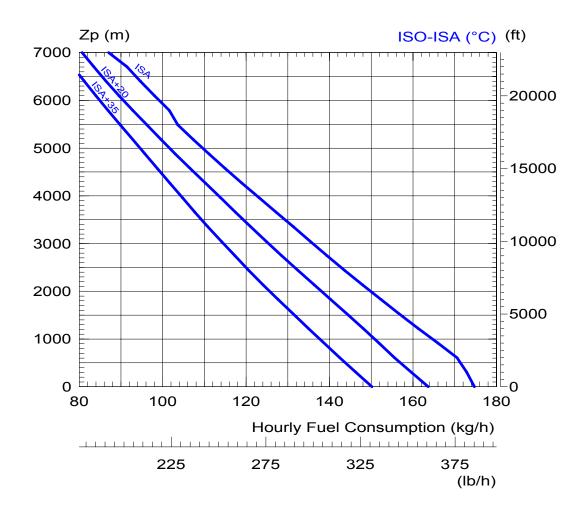
130 B4 08.101.01 E





at fast cruise speed

ISA, ISA + 20°C, ISA + 35°C



Note : Typical consumption with clean baseline aircraft and new engine.

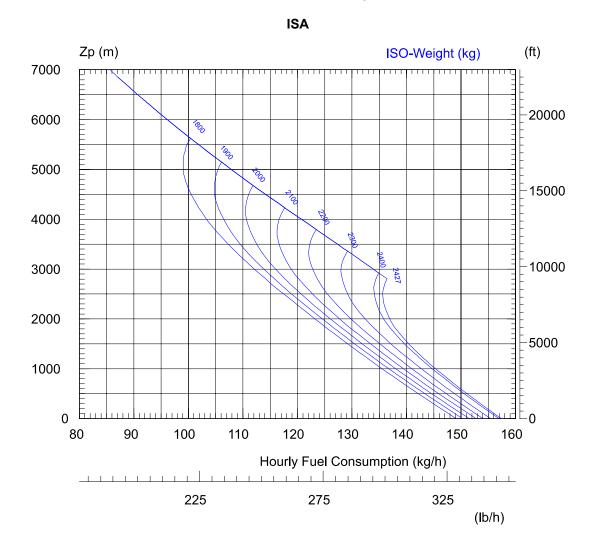
The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.





at recommended cruise speed



Note : Typical consumption with clean baseline aircraft and new engine.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

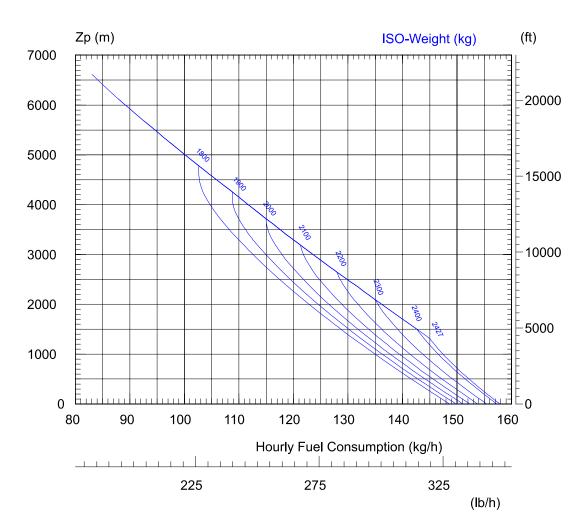
130 B4 08.101.01 E





at recommended cruise speed

ISA + 20°C



Note : Typical consumption with clean baseline aircraft and new engine.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

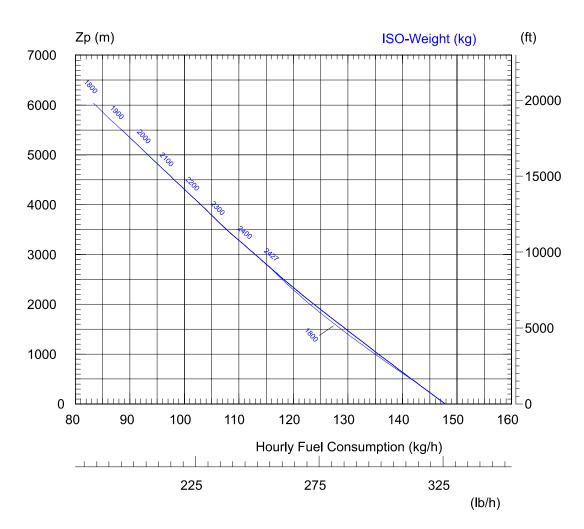
45





at recommended cruise speed

ISA + 35°C



Note : Typical consumption with clean baseline aircraft and new engine.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 46

130 B4 08.101.01 E

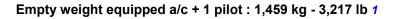


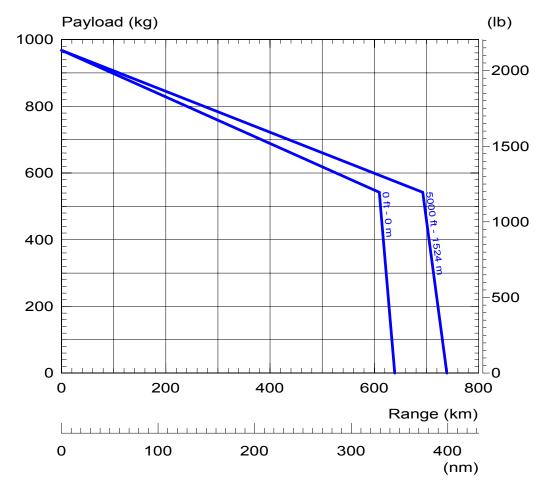


PAYLOD RANGE

ISA

Recommended cruise speed





Note : Typical mission without reserve, with clean baseline aircraft and new engine.

1 Aircraft equipped and approved for VFR day and night operations (avionics included in empty weight).

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 130 B4 08.101.01 E 47



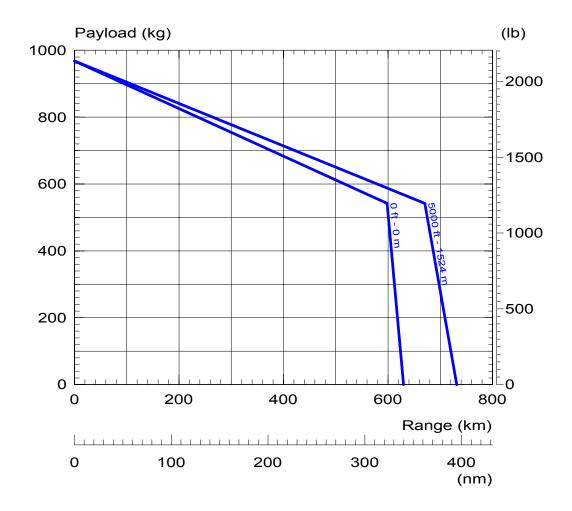


PAYLOD RANGE

ISA + 35°C

Recommended cruise speed

Empty weight equipped a/c + 1 pilot : 1,459 kg - 3,217 lb 1



Note : Typical mission without reserve, with clean baseline aircraft and new engine.

1 Aircraft equipped and approved for VFR day and night operations (avionics included in empty weight).

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 130 B4 08.101.01 E 48





7- Customer Service Overview

Assets

Proven reliability and availability based on experience

EUROCOPTER's helicopter production programs have developed a strong reputation world-wide for being fully committed to providing customers with operational, capable aircraft that achieve high availability combined with cost-effective support systems. To achieve this record of performance, *EUROCOPTER* has stressed the importance of working together with its customers to ensure constant feedback on their demonstrated in-service Reliability, Availability and Maintainability/Testability (RAM) data. The main objective is to reach the most optimized operational cost ensuring the highest flight safety.

EUROCOPTER has built and delivered *EC130 B4* since 2001. There are 173 helicopters in service worldwide. The total flight hours accumulated at this date are about 300,000 hours. The "lead the fleet" aircraft has accumulated 8,500 flight hours.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.





Inspection Program

The Maintenance Program specifies the intervals between maintenance operations that are recommended by *EUROCOPTER*, irrespective of whether they are mandatory or not.

The program can:

- either be used as is,
- or be adapted by each operator to suit his own specific organization, provided he complies with the maximum intervals.

The following table provides an overview of all inspections. Scheduled inspections with shorter time intervals have to be added to those with longer time intervals.

Scheduled Airframe Inspection	Estimated Man Hour	
Daily checks :	Piloťs task	
100 flight hrs or 12 months periodicity tasks	2,36 MMH	
500 flight hrs or 24 months periodicity tasks	75 MMH	
Airframe Major Inspection	Estimated Man Hour	
12 years periodicity tasks	200 MMH	

Scheduled Engine Inspection ARRIEL 2B1	Estimated Man Hour
30 flight hrs periodicity tasks	
300 flight hrs periodicity tasks	0,0348 MMH per FH
600 flight hrs periodicity tasks	

MMH: Mean Man Hour FH : Flight Hour

Note : All the "hands-on" aircraft values mentioned here above are given on the basis of a 20 000 flight hours life cycle. They refer only to the scheduled inspections for the standard helicopter without optional equipment in accordance with the Master Servicing Manual (MSM). The announced Man Hours are without incoming flight, work preparation, reworking, servicing, Service Bulletin implementation and unscheduled maintenance.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations,reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E





Main components Time Between Overhaul (TBO) / Service Life Limit (SLL) 1

Main Components	TBO (h) as per MSM rev R007	TBO (h) Target Value *	SLL (h) as per MSM rev R009 RT 008C
MAIN ROTOR BLADE			20000
SLEEVE			4400
MAIN ROTOR SHAFT UNIT			20000 / 72000 cycles 2
STARFLEX HUB			1800
SPHERICAL THRUST BEARING			4600
BEVEL REDUCTION GEAR	2500	3000	
EPICYCLIC REDUCTION GEAR	2500	3000	
TAIL GEARBOX	3000	5000	
BLADE, TAIL ROTOR			10000
TAIL ROTOR SHAFT FRONT SECTION			20000
TAIL ROTOR SHAFT CENTER SECTION			3000
SERVO CONTROL, MAIN ROTOR	3000		

"*": Target value within the Maturity Plan under progress.

Engine	TBO (h)	TBO (h) Target Value	SLL (h)	
ARRIEL 2B1	3500			

Time Between Overhauls (TBO):

The component in question must be removed at each interval that corresponds to the value indicated, in order to undergo the operations in a specialized workshop that will enable it to be put back into service for the next interval. A TBO is granted with a 10 % operational margin, limited at +300 hours. Some subcomponents may have a Service Life Limit, rated above the TBO limit.

Service Life Limited (SLL):

The Service Life Limit is an airworthiness limit. The component in question must be removed from service when it reaches the limit indicated.

1 Main component values are given for information purposes only. The reference document is the aircraft Master Servicing Manual.

2 First limit reached.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E





EUROCOPTER Maintenance Support Programs

EUROCOPTER offers its clients a comprehensive array of repair and overhaul services to ensure availability and costs control. This array of services ranges from basic OEM repair and overhaul services up to comprehensive Parts By the Hour (PBH) maintenance programs.

The different services are each tailored for one different user profiles and demands, such as customers:

- with a high number of flight hours,
- with a low number of flight hours,
- looking for immediate component availability,
- that wish budget control,
- ...

To respond to the different customers' demands *EUROCOPTER* offers the following flexible and modular services:

- Classical Support
- Standard exchange
- Repair with guaranteed Turn Around Times (TAT)
- Guaranteed Direct Maintenance Costs (DMC)
- Unscheduled Maintenance Insurance Plan
- Parts by the Hour service.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.





Classical Support

The classical support consists of a comprehensive Initial Provisioning package to sustain aircraft operation. This package includes Spare Parts, Tools, Test Equipment, etc..

The required level of operational availability determines the quantity and therefore the investment required. With this support package the Customer bears the responsibility to monitor their repair; manage obsolescence and to procure the right mix and quantity of components and spare parts.

Standard Exchange

The Standard Exchange consists in replacing a defective part with a serviceable and interchangeable part within 48 hours subject to availability. This service is available for equipment, blades and dynamic components.

Repair with Guaranteed TAT

EUROCOPTER offers for some components a repair with commitment on guaranteed TAT. When this lead time is exceeded for the repair, *EUROCOPTER* provides the customer with a standard part exchange delivery at the same price as agreed for the repair.

Guaranteed DMC

The Guaranteed DMC services offers guaranteed repair and overhaul TATs as well as guaranteed prices. This addition to the classical repair and overhaul enables the customer to best size its inventory. Price for this service is calculated per flight hour, thus enabling the customer to spread and predict both his scheduled as unscheduled maintenance expenses. The guaranteed DMC service is available for dynamic components, blades and basic equipment

Unscheduled Maintenance Insurance Plan (UMIP)

With the UMIP, *EUROCOPTER* gives the customer the option to secure unscheduled maintenance costs while remaining responsible for the scheduled events (overhaul, life limited part replacement). Price for this service is calculated per flight hour.

The UMIP service includes component unscheduled repairs and guaranteed parts replacement within 24H through Standard Exchange based on a dedicated inventory. This service is available for dynamic components, blades and basic equipment

Parts By the Hour (PBH)

The Parts by the Hour (PBH) service is a comprehensive program that offers and balances at the same time guaranteed maintenance costs, reduced inventory and minimized helicopter downtime. This service is intended for Customers looking for total cost control and high level of aircraft readiness. Price for this service is calculated per flight hour.

The PBH service includes component unscheduled repairs component overhauls as well as Life Limited part replacement. Parts replacement is guaranteed within 24H through Standard Exchange based on a dedicated inventory. This service is available for dynamic components, blades and basic equipment.

Price charge is defined per flight hour.

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

53





Engine Maintenance program

Always looking to maximize your efficiency and reduce your costs, Turbomeca, the engine manufacturer has developed an improved service offering.

Turbomeca has 32 Repair Centers across the globe, supplemented by several new factory-authorized service facilities strategically located near to you

Turbomeca range of services covers:

- Classical Repair and Overhaul
- Standard Exchange
- AOG services
- Support By the Hour (SBH) services

Within the Support By the Hour® coverage Turbomeca developed specific maintenance packages, as summarized hereafter.

Standard Coverage : "Classic" SBH®

The "classic" Support by the Hour (SBH®) is a global support service offered to operators to enable them to maintain the best availability of their engines fleet through a contract arrangement paid by running hours. The Support by the Hour (SBH®) is operated mainly through Standard Exchange supported by Turbomeca dedicated Corporate Pool.

Customized Coverage : SBH® " Mission"

The new service, Support By the Hour® Mission, offers a modular series of comprehensive service and engine management packages whereby Turbomeca undertakes to guarantee its operator's engine availability and care.

From basic engine support requirement to fully comprehensive range of additional services, three different types of packages are offered to operators : Pro, Prime and Privilege.

Turbomeca Internet Web Site - TOOLS

Turbomeca Operator On-Line Support (TOOLS site) is entirely dedicated to helping customers. With 24/7 availability, operators can access important information when they want to from where they want to, winning precious time and staying head. TOOLS at <u>www.turbomeca-support.com</u>

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

130 B4 08.101.01 E

54





Training

With more than 50 years of experience, the *EUROCOPTER* training centers provide the most comprehensive, coherent and highest standard helicopter training in the world for pilots and technicians, whether civilian or military.

Qualification training, allowing operators to comply with regulatory requirements, and services training, more mission oriented and tailored to the customers' operational needs, are addressed.

All training courses are established according to the relevant civil aviation authorities' requirements. The centers are approved by the relevant airworthiness authorities (EASA, FAA, DGAC, LBA, CAA...). We are certified ISO 9001: V2000 and regularly audited by independent organisms such as Véritas, AFAQ...

EUROCOPTER training centers provide a wide range of courses and services, from basic training up to preparation for the most sophisticated civil and military missions.

As part of the full range of services on offer, *EUROCOPTER* also plays an active role in helicopter pilot development through its Ab Initio programs.

Centers are equipped with multimedia classrooms. This includes computers overhead projectors and stateof-the-art means such as Computer Aided Instruction (CAI), Computer Based Training (CBT). Some centers also have self-learning laboratories.

EUROCOPTER has set up a network of 14 training centers. For detailed information refer to *EUROCOPTER* specific publication.

COURSE	COURSE REFERENCE	THEORETICAL INSTRUCTION	FLIGHT INSTRUCTION	
Түре			TR1	TR2
	Type rating	4 days	5 hours	3 hours
Pilot	Instructor pilot conversion 1	-	5 hours	
	Refresher	1 day	1,5 hours	
COURSE TYPE	COURSE REFERENCE	THEORETICAL INSTRUCTION		
Mechanics	Type rating (Airframe + Engine)	3 weeks		
	Refresher	1 week		
Blades	Maintenance and repair	Up to 2 weeks		

EC130 B4 - Example of basic training course

TR1: For pilot non already qualified on single engine turbine TR2: For pilot already qualified on single engine turbine.

Note: Length is given as information and depends on pilot or technician qualification or experience. Complementary courses may be required.

1 Pilot already qualified on EC130 (15 hours mini, within last 12 months, not included in type rating).

The data set forth in this document are general in nature and for information purposes only. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents. 130 B4 08.101.01 E 55





Engine Training Courses

Training courses dedicated to Engine Maintenance is also organized by Turbomeca training schools and approved centers the world over.

Up-to-date course calendars, on-line tests and e-learning modules are also available on the Turbomeca Operator On-Line Support (TOOLS site).

Technical publications

EUROCOPTER provides all the technical publications necessary for safely operating and maintaining its aircraft cost effectively.

EUROCOPTER technical publications are available on an interactive electronic medium as a standard or in hard copies as an option.

The INDOC DVD-ROM includes the Aircraft Maintenance Manual (AMM), System Description Section (SDS), Master Servicing Manual (MSM), Illustrated Parts Catalogue (IPC) and the Wiring Diagram Manual (WDM).

The component maintenance manual (CMM) is available on DVD-ROM or hard copy, depending on the Vendor.

Along with the INDOC DVD-ROM, *EUROCOPTER* provides a hard copy of the Airworthiness Technical Publication (Flight Manual, Pilots Check List, Master Servicing Manual ...) as well as the Service Bulletin Catalogue.

The DVD ROM is available in English or French; it includes the latest information and is updated every 6 - 9 months.

T.I.P.I. (Technical Information Publication on Internet)

Description

T.I.P.I. website is entirely dedicated to provide a real-time issuing service for the following publications:

- Télex Alert, Télex Information, Service Bulletin, Service Letter, Service Information, Technical Information Letter
 - List of Applicable Publications (LOAP)
- List of Master Minimum Equipment List (MMEL)

Main features

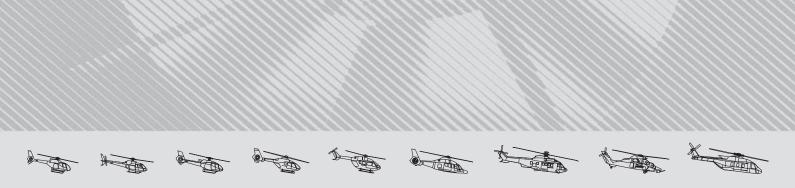
- Each time a publication is issued, the customer is automatically informed by an e-mail.
- The download of the publication in pdf format is possible either directly from the e-mail or after logging on the T.I.P.I. website.
- A keywords search tool is provided (aircraft family, type of publication, date of edition...).
- Address: <u>www.eurocopter.com/services/technical publications/T.I.P.I.</u>

The publications are available in English, French or German depending on the case.

- A small summary, already included in the e-mail, helps the customer to understand quickly the subject.
- Small icons allow the customer to identify immediately the type of information received.

The data set forth in this document are general in nature and for information purposes only.

For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.





www.eurocopter.com

Eurocopter reserves the right to make configuration and data changes at any time without notice. The facts and figures contained in this document and expressed in good faith do not constitute any offer or contract with Eurocopter