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### Manufacturers notice

#### Attention !

*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 or 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.*

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

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## Foreword



*The medium twin, multi-mission helicopter, the EC 155 B1, is aimed at the VIP, corporate, offshore, police, public service and emergency medical service markets.*

*The EC 155 B1 offers a significantly larger cabin than previously available in helicopters of its class. A new technology five-blade main rotor and an even quieter, efficient, advanced Fenestron for yaw control have been designed into the EC 155 B1.*

*Emphasis has been placed on high speed and passenger comfort in terms of available space, low vibration level, low noise and ample baggage capacity.*

*The EC 155 B1 is engineered to provide outstanding speed and range capabilities. The five-blade Spheriflex main rotor and the advanced Fenestron tail rotor system ensure a smooth, vibration-free ride at high speed. Inside the EC 155 B1 you will find a spacious cabin. In the Passenger Transport configuration the EC 155 B1 will carry 12 passengers with one or two pilots. In the corporate or VIP version, the EC 155 B1 will transport as many as eight executives in a comfortable working environment, designed to reflect the helicopter's owner's unique sense of style and taste. In addition, the EC 155 B1 has more than ample baggage space accessible from both sides of the aircraft for luggage and, if required, additional equipment.*

*The EC 155 B1 is welcome at the most crowded airports where the helicopter's high-speed permit easy integration with fixed wing traffic.*

*The high-set main rotor and shrouded Fenestron contribute to ground handling safety. The wheeled retractable undercarriage ensures freedom to taxi on the most congested ramp.*

*In the cockpit, the crew occupy a carefully designed state-of-the-art cockpit. A four-axis auto-pilot and ergonomically placed flight displays make this "work-space" a pleasure to use.*

*The corporate or VIP EC 155 B1 brings new meaning to flying business class.*

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## 1- General Characteristics

### Lay-Out

- **Minimum crew**
  - 1 or 2 pilots + 12 passengers with comfort seats (1 or 2 pilots + 13 passengers with utility seats)
- **Casualty transport**
  - 2 stretcher-patients and 4 seats
- **VIP corporate**
  - 1 or 2 pilots + 8 passengers with VIP lay-out

### Weights

Note: Empty weight accuracy: within  $\pm 2\%$

	kg	lb
■ <b>Empty weight, standard aircraft (including engine oil and unusable fuel)</b>	2,619	5,774
■ <b>Useful load</b>	2,301	5,072
■ <b>Maximum all-up weight</b>	4,920	10,846
■ <b>Maximum weight for taxiing</b>	4,950	10,913
■ <b>Maximum load on cargo sling</b>	1,600	3,527

### Power plant: 2 TURBOMECA ARRIEL 2C2 free turbine engines

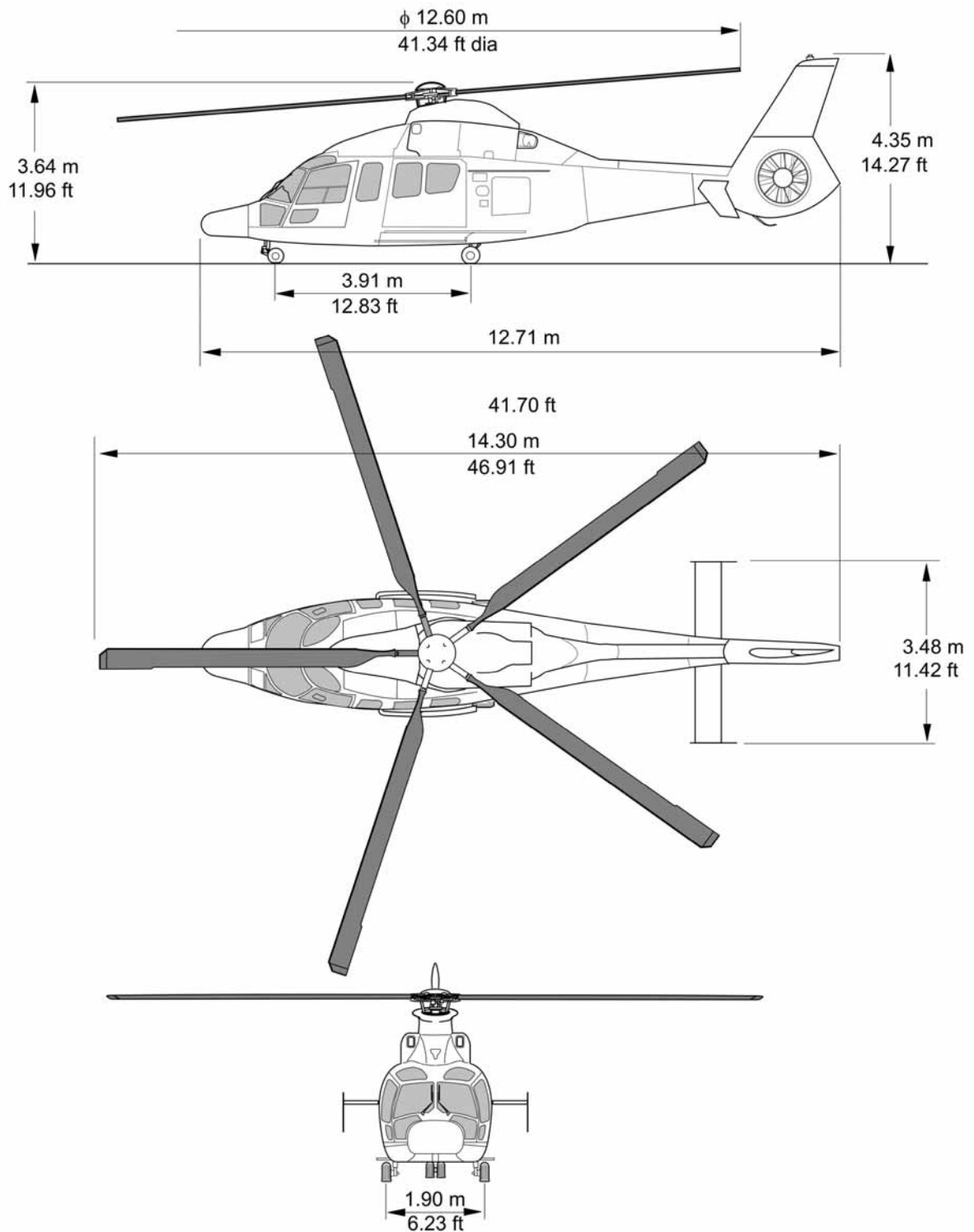
	kW	ch	shp
■ <b>O.E.I. 30 seconds rating</b>	780	1,061	1,046
■ <b>OE.I. 2 minutes rating</b>	704	957	944
■ <b>Continuous O.E.I. rating</b>	679	923	911
■ <b>Take-Off Power</b>	697	948	935
■ <b>Maximum Continuous Power</b>	636	865	853

### Usable Fuel capacities

	litres	US gal.	kg	lb
■ <b>Standard fuel tanks (2 groups)</b>	1,257	332	993	2,189
■ <b>Additional fuel tanks (option)</b>				
● <b>Auxiliary fuel tank</b>	180	47	142	313
● <b>Ferrying fuel tank</b>	460	121	363	801

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## Main dimensions



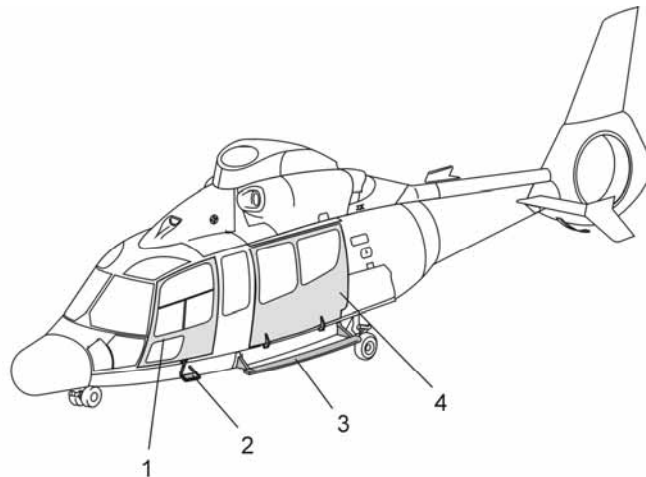
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## Configurations

### Cabin access

Access is gained through 2 footsteps and 2 lateral sliding plug doors whose upper sections and lateral windows are glazed in grey. These doors can be opened and locked in the open position during flight. The maximum authorised speed for opening these doors is 111 km/hr (60 kts) and the maximum speed to fly with these doors opened is 200 km/hr (110 kts). A warning light on the instrument panel comes on when a door is not locked in the closed position.

Access to the cabin is possible as well through the crew doors.



- 1 - Crew doors
- 2 - Crew footsteps
- 3 - Cabin footsteps
- 4 - Cabin doors

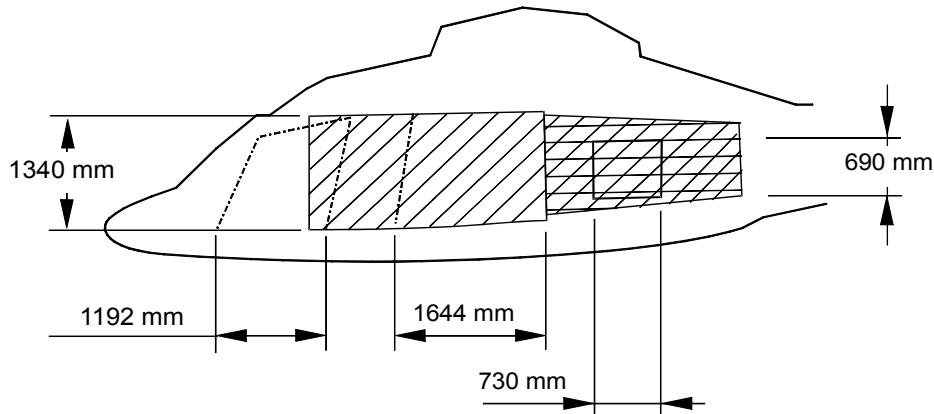
### Cabin seats (optional equipment)



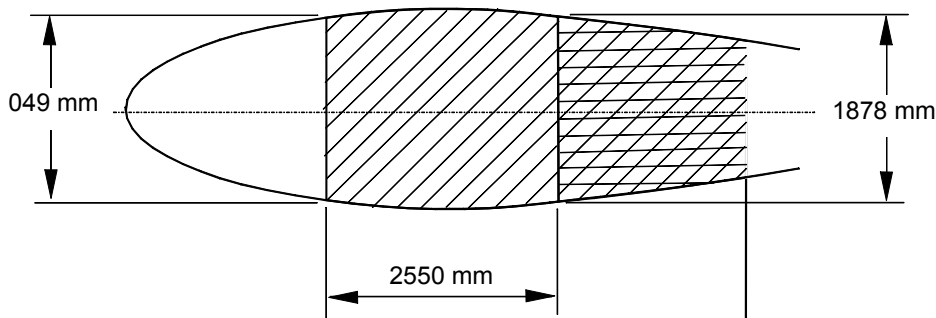
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### Dimensions of compartments and accesses

#### Cabin main dimensions



CABIN	
Surface	5.09 m <sup>2</sup> 54.79 sq.ft
Volume	6.66 m <sup>3</sup> 235.20 cu.ft

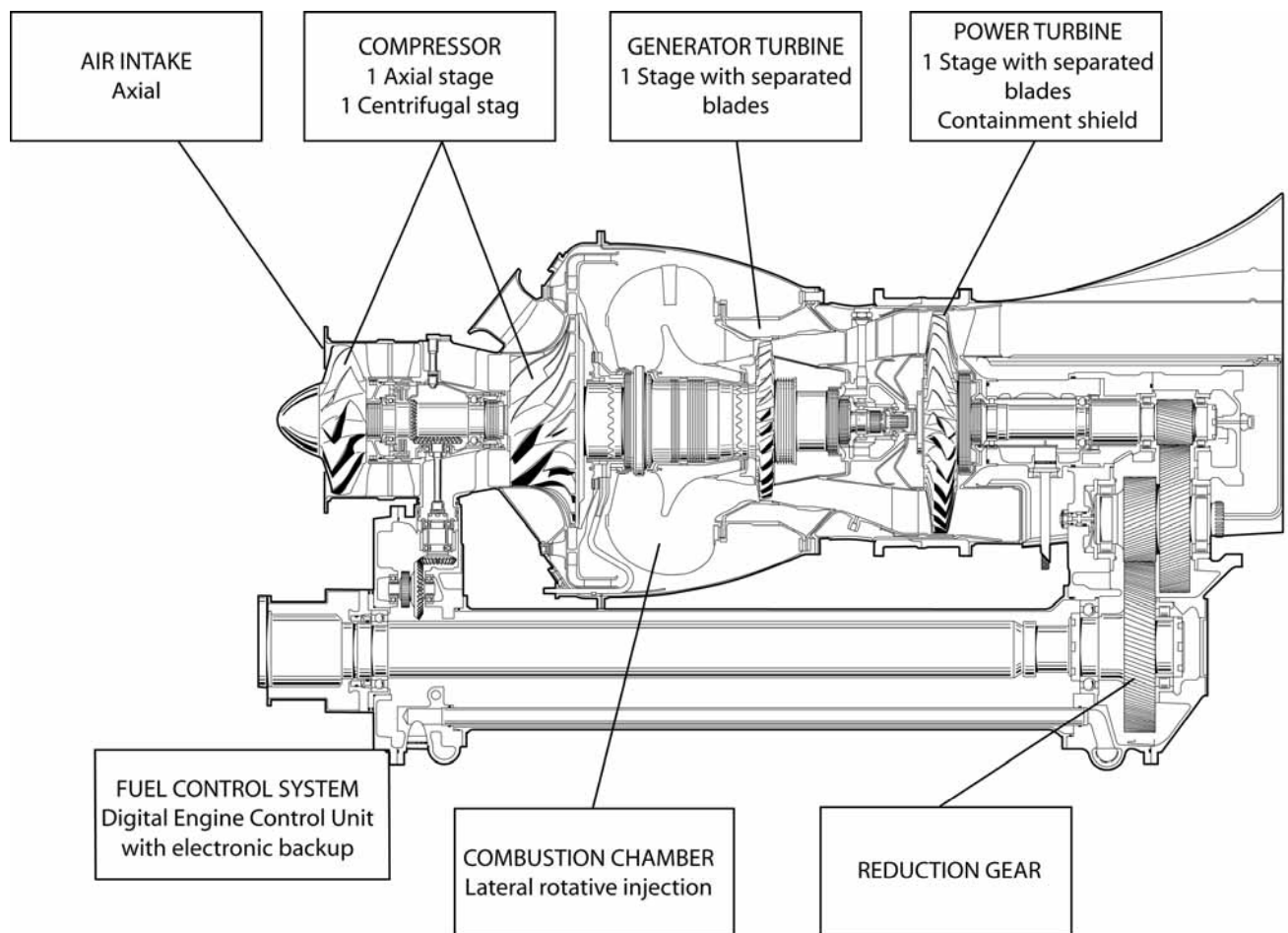


HOLD	
Surface	2.95 m <sup>2</sup> 31.75 sq.ft
Volume	2.5 m <sup>3</sup> 88.29 cu.ft

*Dimensions given for information only*

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## Increased performance Power Plant...



... with modular design for easier maintenance, blade shedding protection and dual channel FADEC for increased safety

The ARRIEL 2C2 is controlled by a dual channel Full Authority Digital Engine Control (FADEC) which controls the power turbine constant speed whatever the power drawn from the engine by continuous accurate adjustment of the gas generator speed. In addition, the FADEC controls some automatic functions (Automatic engine starts / shut-down sequences, acceleration / deceleration control of the engine preventing surge / flame out, in-flight automatic restart and engine maintenance aid), offering the latest stage of the engine technology in the field of safety aspects.

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## Full glass cockpit



**Note:** Various indicators, controls and warning lights associated with items of optional equipment may be installed on the instrument panel and console and cause the equipment shown above to be relocated.

### Instrument-panel equipment:

- 2 Primary Flight Displays (PFD)
- 2 Navigation Displays (ND)
- 1 dual Vehicle and Engine Management Display (VEMD)
- 1 Caution Advisory Display (CAD)
- 2 Instrument Control Panels (ICP)
- 1 Rotor r.p.m. tachometer (co-pilot side)
- 1 stand-by anemometer
- 1 stand-by horizon
- 1 stand-by altimeter
- 1 triple tachometer (rotor, engine 1 and 2 free wheel RPM)
- 2 stopwatches
- 1 landing gear monitoring and control panel
- 1 warning panel (red alarms)
- 2 master alarm warning lights
- 2 "landing gear not extended" warning lights
- 2 manoeuvre limit lights

### Console equipment:

- 1 Reconfiguration Control Unit (RCU)
- 1 Automatic Pilot Mode Selector (APMS)
- 1 fuel circuit control and monitoring panel
- 1 AHRS control box
- 1 parking brake control handle
- 1 nose wheel caster lock handle
- 1 breaker panel

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## 2- EC 155 B1 - Standard Aircraft Definition

### GENERAL

- Fuselage comprising cabin and baggage hold
- Baggage hold with floor tie-down net and 2 lockable doors (LH and RH side)
- Tail boom with stabiliser fitted with 2 lateral endplates and a shrouded tail rotor built into the vertical fin
- Retractable tricycle landing gear with nose wheel castor lock unit, assisted differential brakes on pilot and copilot side and parking brake
- 4 built-in foot-steps (2 on each side) for access to transmission deck
- Structural reinforcements for 1,600 kg (3,527 lb) cargo-sling
- Structural reinforcements for external hoist
- Jacking, hoisting, mooring and gripping points
- Interior paint: Light grey
- Exterior paint:
  - the fuselage is painted following per standard colour chart (scheme and colours, gloss or matt polyurethane finish, white + 2 colours), unless modified by option
  - the landing gears are light blue,
  - the main rotor and tail rotor cover are grey
  - the main rotor blades are kaki and the tail rotor blades are black

### CABIN

- 1 multipurpose cabin
- 2 removable pilot and copilot energy attenuating high back-rest seats, adjustable in reach and height, each fitted with a 5 points harness
- 1 glass windshield
- 2 hinged pilot and copilot doors, jettisonable with tinted windows, allowing access to cockpit and front passenger row, each fitted with a sliding window
- 2 jettisonable tinted windows located between cockpit and cabin doors
- 2 passenger sliding doors with jettisonable tinted windows
- 2 externally mounted cockpit and cabin footsteps
- 2 tinted upper panes
- Cabin upholstery
- Dual flight controls
- Fuel shut-off controls
- 1 rotor brake control
- 1 heating / demisting / ventilation system
- 2 windshield wipers
- 1 portable fire-extinguisher in cockpit
- 2 illuminated chart holders
- Stowage place for flight documents
- 1 flight manual

### INSTRUMENTS

- 2 Primary Flight Displays (PFD) providing the following information:
  - Attitude
  - Indicated airspeed with flight envelope data
  - Vertical speed
  - Barometric altitude
  - ILS (with heading scale) (\*)
  - Auto Pilot mode annunciator
  - DH alarm
- 2 Navigation Displays (ND) providing the following information:
  - Heading
  - Radio navigation sources (\*)
  - Automatic bearings (\*)
  - Radar altitude scale with DH select
  - ILS (\*)
  - DME (\*)
  - 2 D navigation leg displays (\*)
  - External video sources (\*)
- 1 dual screen Vehicle and Engine Management Display (VEMD) providing the following information:
  - First Limitation Indicator (FLI): limitation related to the first power limitation: NG, T4, TRQ
  - Engine oil temperature/pressure indicator
  - Hydraulic pressure
  - Ammeter and voltmeter
  - OAT
  - Enhanced usage monitoring functions
    - ◆ Engine cycle counting
    - ◆ Automatic engine check
- 1 Caution Advisory Display (CAD) providing the following information:
  - Caution advisory display (amber, green and blue lights)
  - Fuel quantity
  - Fuel pressure
  - ΔNG (back-up mode)
- 2 Instrument Control Panels (ICP)
  - 1 stand-by gyro-horizon
  - 1 stand-by anemometer
  - 1 stand-by altimeter
  - 1 stand-by magnetic compass
  - 1 landing gear position selector and indicator
  - 2 stop watches
  - 1 triple tachometer for rotor and engine 1 and 2 free turbine r.p.m.
  - 1 tachometer for rotor on copilot's side
  - 1 warning panel (red alarms)
  - 2 master alarm lights
  - 2 manoeuvre limit lights
  - 2 "L/G not extended" warning lights
  - 1 Automatic Pilot Mode Selector (APMS)
  - 1 Reconfiguration Control Unit (RCU)
  - 1 fuel circuit control and inspection panel
  - 1 AHRS control box
  - 1 overhead panel including :
    - 1 engine control panel
    - 2 dual fire extinguishing controls for engine bays
    - 1 dual fire extinguishing control for baggage hold
    - 1 electrical control panel
  - 1 brake hydraulic circuit pressure gauge on pilot side floor
  - 3 heated pitot heads
  - 2 Attitude and Horizontal Reference Systems (AHRS)
  - 2 Air Data Computers (ADC)
  - 1 radar altimeter (radar altitude displayed on NDs)
  - 1 rack with the following boards:
    - 2 Flight Data Computer Modules (FDCM)
    - 1 Automatic Pilot Module (APM)
    - Spare for 1 Miscellaneous Flight Data Acquisition Unit (MFDAU) (\*)

(\*) when optional equipment is fitted

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### POWER PLANT

- 2 TURBOMECA ARRIEL 2C2 turbine engines complete with starting, dual channel Full Authority Digital Engine Control (FADEC) system, and fitted with 4 chip detectors cabled with 1 warning light on warning panel
  - The FADEC provides the following main functions:
    - Variable rotor speed governing
    - OEI training mode
    - Automatic starting sequence
  - Each engine is equipped with an anti-icing fuel system (efficient down to O.A.T. = -20° C)
- Automatic (FADEC controlled) engine governing in back-up mode
- 1 fuel system including 6 tanks split into 2 groups, with a total usable capacity of 1,257 litres (332 US gal), 4 immersed booster pumps, 1 transfer pump and low level fuel indication
  - 1 bleed control for the fuel system
  - 2 engine lubrication and oil cooling systems
  - 2 engine fire detection and extinguishing systems
  - 2 engine anti-icing air-intake grids
  - 2 sensors for torquemeter
  - Engine flushing plug (without removing cowlings)
  - Fuel filler with lock and protection

### TRANSMISSION SYSTEM

- 1 main gearbox with oil sight gauge, magnetic plug, oil pressure and temperature pick-up, lubrication system, 1 stand-by lubrication pump, thermal-switch, rotor tachometer drive, holes for endoscope and oil sampling, and 2 chip detectors cabled with a warning light on warning panel
- 2 free wheels integrated to the main gearbox
  - 1 main gearbox oil cooling system
  - 2 engine / main gearbox coupling shafts
  - 1 rotor brake
  - 1 tail gearbox with oil sight gauge and 1 chip detector cabled with a warning light on warning panel

### ROTORS AND FLIGHT CONTROLS

- 1 main rotor with:
  - 5 glass / carbon-fibre blades
  - 1 "Spheriflex" rotor head fitted with lower gust and droop stops
  - 1 rotor mast fitted with rotor r.p.m. phonic-wheel
- 1 "Fenestron" type tail rotor with 10 composite material blades built into the vertical fin
- 1 flight control system, fitted with 3 dual-chamber / dual-body main servo-units (on cyclic and collective pitch channels) and 1 dual-chamber / dual-body rear servo-unit (on tail rotor pitch control channel)
- 1 Dual Digital Automatic Flight Control System (4-axis type) including upper modes

### ELECTRICAL INSTALLATION

- Power generation system:
  - 2 starter / generators (160 Amp, 28 V DC)
  - 43 Amp / hr nickel-cadmium battery with temperature sensor and warning light
  - 1 external 28 V DC power connector
  - 1 additional maintenance ICS jack in the ground power receptacle compartment
- Power distribution system:
  - 2 primary bus bars
  - 2 essential bus bars
  - 2 high load bus bars (80 A) – for optional equipment only
  - 1 battery bus
  - 2 breakers panels in radome
  - 1 breaker panel in cockpit
- Lighting:
  - 1 anti-collision light
  - 1 retractable landing lights (450 - W)
  - 1 retractable swivelable landing lights (450 - W)
  - 3 position lights (red, green, white)
  - adjustable instrument lighting
  - 2 utility lights in the cockpit
  - 1 instrument light for flight in stormy conditions
  - Compartment lights in cabin and cargo compartment
  - 2 x 28 V DC power connectors in cabin

### HYDRAULIC GENERATION

- 2 independent hydraulic systems feeding the servo-units, landing gear actuation system and assisted brakes
- 1 self-sealing hydraulic ground coupling
- 1 stand-by hydraulic system with electro-pump for emergency activation of the landing gear and for providing hydraulic assistance on ground (engines not running)

### AIRBORNE KIT (Weight not included in standard aircraft empty weight)

- 3 pitot head covers
- 2 static vent plugs
- 2 engine air-intake covers
- 2 engine tail pipe covers
- 7 mooring rings
- 2 rough weather tie-down rings
- 2 gripping rings
- 1 main blades tie-down kit
- 1 set of jacking pads
- 1 data case
- 1 airborne kit stowing bag

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### 3- Configurations

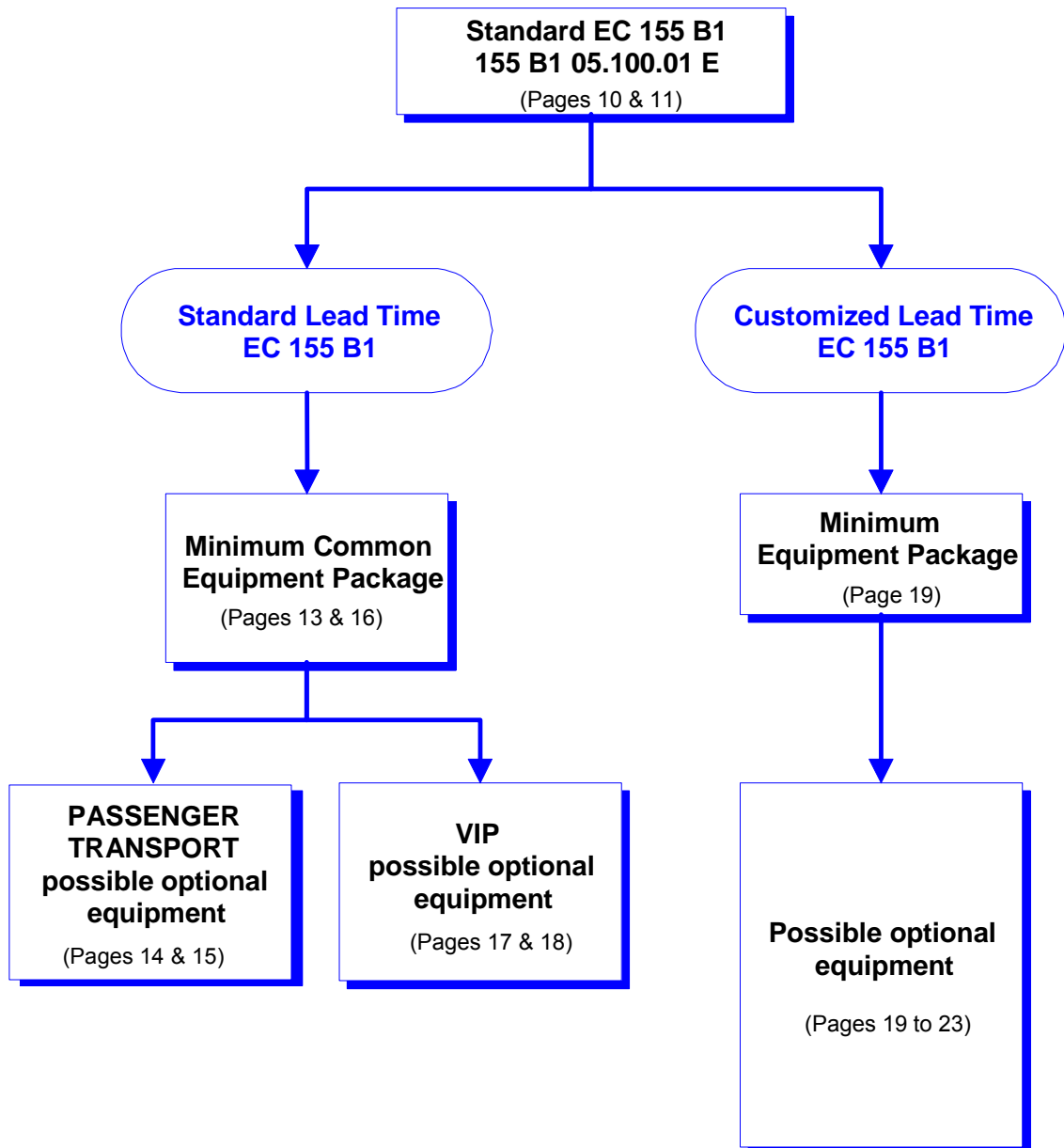
- Two ways of customizing the EC 155 B1...

#### Standard Lead Time

- + lead time
- limited possible optional equipment list

#### Customized Lead Time

- augmented lead time
- + extended possible optional equipment list



- Individual weights are given for information; complete configurations only may be guaranteed ( $\pm 2\%$ ).
- The EC 155 B1 is delivered with fixtures to receive ballast (30.5 kg max), should the mission loading require it.

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## STANDARD LEAD TIME PASSENGER TRANSPORT

Document reference	Commercial reference	Name	kg	lb
		<b>1/ STANDARD AIRCRAFT</b>		
		EC 155 B1 05.100.01 E	<b>2,619</b>	<b>5,774</b>
00-50014-A	05-50014-00-CI	<b>2/ STANDARD LEAD TIME COMMON EQUIPMENT PACKAGE 1</b>	<b>81.1</b>	<b>178.8</b>
		Additional anti-corrosion protection		
		Improved sound-proofing (86 dB)		
		VHF-AM COLLINS 422 A (No.1)		
		VHF-AM COLLINS 422 A (No.2)		
		InterCommunication System with 2 control boxes		
		TEAM TB 31		
		Crew headsets Silec 4449-1 (Qty 2)		
		Transponder COLLINS TDR 94 D-007 with flight ident function No. 1 <sup>2</sup>		
		ADF COLLINS ADF 462		
		DME COLLINS DME 442		
		VOR/ILS COLLINS VIR 432 (No.1)		
		VOR/ILS COLLINS VIR 432 (No.2)		
		Solid State Cockpit Voice & Flight Data Recorder		
		HONEYWELL AR COMBI (2 hours CVR and 10 hours FDR recording)		
		UMS (complement of SSCVFDR) (Usage functions) - Ground station excluded		

- 1** In addition to this package a beacon must be selected in the possible optional equipment (ELT or ADELTA) whenever available.
- 2** The mode S identification must be communicated by the Customer two months at the latest before the delivery.

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### STANDARD LEAD TIME PASSENGER TRANSPORT (continued)

Document reference	Commercial reference	Name	kg	lb
<b>3/ STANDARD LEAD TIME PASSENGER TRANSPORT OPTIONAL EQUIPMENT</b>				
<b>General equipment</b>				
05-02023-A	05-02023-00-CI	Customized outside paint	2.5	5.5
05-03004-A	05-03004-00-CI	First aid kit	5.0	11.0
05-22017-A	05-22017-00-CI	Fuzz burner on engines lubrication system	0.8	1.8
05-24014-A	05-24014-00-CI	High visibility markings of the main rotor blades	0.4	0.9
05-24015-A	05-24015-00-CI	High visibility markings of the main rotor blades tip cap	0.1	0.2
05-24016-A	05-24016-00-CI	Coning stops	5.9	13.0
05-25021-A	05-25021-00-CI	Re-inforced sand erosion protection strip on main rotor blades	0.6	1.3
05-25022-A	05-25022-00-CI	Re-inforced sand erosion protection strip on tail rotor blades	0.1	0.2
05-27002-A	05-27002-00-CI	2nd fire extinguisher in the cabin	2.4	5.3
05-32005-A	05-32005-00-CI	Windshield washer	2.6	5.7
05-38008-A	05-38008-00-CI	Single Pilot IFR kit	1.8	4.0
05-42027-A	05-42027-00-CI	Air conditioning system (Mechanically driven)	29.0	63.9
05-86004-A	05-86004-00-CI	Fuel heating system	6.0	13.2
<b>Specific mission equipment</b>				
06-21009-A	06-21009-00-FP	Electrical hoist (272 kg - 90 m) AIR EQUIPEMENT - Fixed Parts <sup>1</sup>	4.4	9.7
06-21009-A	06-21009-00-RP	Electrical hoist (272 kg - 90 m) AIR EQUIPEMENT - Removable Parts <sup>1</sup>	63.0	138.9
06-27021-A	06-27021-00-FP	Cargo sling dynamometer, outside mirror (1600 kg – 3,527 lb) – Fixed Parts	6.9	15.2
06-27021-A	06-27021-00-RP	Cargo sling dynamometer, outside mirror (1600 kg – 3,527 lb) – Removable Parts	24.3	53.6
06-27024-A	06-27024-00-FP	Cargo sling dynamometer, outside mirror (1600 kg – 3,527 lb), life rafts installation compatible - Fixed-Parts	2.2	4.9
06-27024-A	06-27024-00-RP	Cargo sling dynamometer, outside mirror (1600 kg – 3,527 lb), life rafts installation compatible - Removable Parts	24.3	53.6
06-41011-A	06-41011-00-CI	Under fuselage anti-collision strobe light	1.0	2.2
06-61009-A	06-61009-00-FP	Emergency floatation gear – Fixed Parts	11.1	24.5
	06-61009-00-RP	Emergency floatation gear – Removable Parts	48.9	107.8
06-62011-A	06-62011-00-CI	Life-raft installation (2 x 10 pax)	87.2	192.2
06-66005-A	06-66005-00-CI	Heel lights	4.0	8.8
06-67032-A	06-67032-00-CI	Emergency locator Transmitter KANNAD 406-AF <sup>2</sup>	2.4	5.3

<sup>1</sup> Requires the "Third control box 1976 in cabin for TEAM TB 31 ICS".

<sup>2</sup> The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter's delivery.

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### STANDARD LEAD TIME PASSENGER TRANSPORT (continued)

Document reference	Commercial reference	Name	kg	lb
<b>Specific mission equipment (continued)</b>				
06-67040-A	06-67040-00-CI	Automatic deployable Emergency Locator Transmitter HR SMITH series 503 <sup>1</sup>	7.1	15.7
06-68004-A	06-68004-00-CI	Under Water Acoustic Beacon DUKANE DK 100	0.5	1.1
06-69003-A	06-69003-00-CI	AVAD RACAL V 694 type	2.3	5.1
<b>Interior layout</b>				
07-25015-A	07-25015-00-CI	12-seat cabin lay-out with 4 point harnesses and headrests	94.7	208.8
07-30016-A	07-30016-00-CI	Additional upholstery	16.3	35.9
07-40015-A	07-40015-00-CI	Flooring material	tbd	tbd
07-60010-A	07-60010-00-CI	Quick loading luggage hold customization	14.1	31.1
<b>Avionics</b>				
08-10012-A	08-10012-00-CI	HF/SSB Collins – HF 9100	24.5	54.0
08-12013-A	08-12013-00-CI	VHF/FM maritime NAT NPX 138	4.0	8.8
08-16043-A	08-16043-00-CI	InterCommunication System Third control box TEAM TB 31	1.6	3.5
08-17027-A	08-17027-00-CI	Passengers address NAT AA 20-431 with 6 loudspeakers	4.5	9.9
08-17028-A	08-17028-01-CI	Passenger interphone Team BA 1920 (for 12 passengers)	1.6	3.5
08-18028-A	08-18028-01-CI	Crew headset Silec 4449-1	0.5	0.9
08-22023-A	08-22023-01-CI	Transponder COLLINS TDR 94 D-007 with flight ident function D No 2 <sup>2</sup>	5.5	12.1
08-27032-A	08-27032-00-CI	SAR Homer CHELTON	4.0	8.8
08-31025-A	08-31025-00-CI	Weather radar TELEPHONICS RDR 1400 C with VRU, displayed on ND	26.0	57.3
08-31027-A	08-31027-00-CI	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	10.6	23.4
08-35006-A	08-35006-00-CI	TAS RYAN 9900 BX (3" display)	10.5	23.1
08-43024-A	08-43024-00-CI	GPS <sup>3</sup> FREEFLIGHT TNL 2101 I/O APPROACH + linked with AFCS and ND	3.1	6.8
08-44033-A	08-44033-00-CI	Flight Management System UNIVERSAL UNS-1D	9.2	20.3
08-46012-A	08-46012-00-CI	Jeppesen map HONEYWELL KMD 850, linked to GPS <sup>4</sup>	3.0	6.6
08-83002-A	08-83002-00-CI	HUMS (complement of UMS) (Health functions)	10.1	22.3

- 1 The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter's delivery.
- 2 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
- 3 The Customer must take out a subscription to the data base in order to use the GPS after having taken delivery of the helicopter.
- 4 No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.

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### STANDARD LEAD TIME VIP

Document reference	Commercial reference	Name	kg	lb
		<b>1/ STANDARD AIRCRAFT</b>		
		EC 155 B1 05.100.01 E	<b>2,619</b>	<b>5,774</b>
00-50014-A	05-50014-00-CI	<b>2/ STANDARD LEAD TIME COMMON EQUIPMENT PACKAGE 1</b>	<b>81.1</b>	<b>178.8</b>
		Additional anti-corrosion protection		
		Improved sound-proofing (86 dB)		
		VHF-AM COLLINS 422 A (No.1)		
		VHF-AM COLLINS 422 A (No.2)		
		InterCommunication System with 2 control boxes		
		TEAM TB 31		
		Crew headsets Silec 4449-1 (Qty 2)		
		Transponder COLLINS TDR 94 D-007 with flight ident function No. 1 <sup>2</sup>		
		ADF COLLINS ADF 462		
		DME COLLINS DME 442		
		VOR/ILS COLLINS VIR 432 (No.1)		
		VOR/ILS COLLINS VIR 432 (No.2)		
		Solid State Cockpit Voice & Flight Data Recorder		
		HONEYWELL AR COMBI (2 hours CVR and 10 hours FDR recording)		
		UMS (complement of SSCVFDR) (Usage functions) - Ground station excluded		

- 1** In addition to this package a beacon must be selected in the possible optional equipment (ELT or ADEL T) whenever available
- 2** The mode S identification must be communicated by the Customer two months at the latest before the delivery.

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



### STANDARD LEAD TIME VIP (continued)

Document reference	Commercial reference	Name	kg	lb
<b>3/ STANDARD LEAD TIME VIP OPTIONAL EQUIPMENT</b>				
<b>General equipment</b>				
05-02023-A	05-02023-00-CI	Customized outside paint	2.5	5.5
05-22017-A	05-22017-00-CI	Fuzz burner on engines lubrication system	0.8	1.8
05-24014-A	05-24014-00-CI	High visibility markings of the main rotor blades	0.4	0.9
05-24015-A	05-24015-00-CI	High visibility markings of the main rotor blades tip cap	0.1	0.2
05-24016-A	05-24016-00-CI	Coning stops	5.9	13.0
05-25021-A	05-25021-00-CI	Re-inforced sand erosion protection strip on main rotor blades	0.6	1.3
05-25022-A	05-25022-00-CI	Re-inforced sand erosion protection strip on tail rotor blades	0.1	0.2
05-32005-A	05-32005-00-CI	Windshield washer	2.6	5.7
05-36015-A	05-36015-00-CI	Retractable passenger footsteps instead of standard equipment (left and right side)	29.2	64.4
05-38008-A	05-38008-00-CI	Single Pilot IFR kit	1.8	4.0
05-42027-A	05-42027-00-CI	Air conditioning system (Mechanically driven)	29.0	63.9
05-86004-A	05-86004-00-CI	Fuel heating system	6.0	13.2
<b>Specific mission equipment</b>				
06-41011-A	06-41011-00-CI	Under fuselage anti-collision strobe light	1.0	2.2
06-61009-A	06-61009-00-FP	Emergency floatation gear - Fixed Parts	11.1	24.5
06-61009-A	06-61009-00-RP	Emergency floatation gear - Removable Parts	48.9	107.8
06-67032-A	06-67032-00-CI	Emergency locator Transmitter KANNAD 406-AF <b>1</b>	2.4	5.3
06-68004-A	06-68004-00-CI	Under Water Acoustic Beacon DUKANE DK 100	0.5	1.1
06-69003-A	06-69003-00-CI	AVAD RACAL V 694 type	2.3	5.1
<b>Interior layout</b>				
07-50011-A	07-50011-00-CI	2 hinged passengers doors with 2 rear doors extensions (instead of the standard sliding doors)	14.3	31.5
07-60010-A	07-60010-00-CI	Quick loading luggage hold customization	14.1	31.1
07-81004-A	07-81004-00-CI	4/8 seat complete VIP installation with enhanced sound-proofing and carpeting <b>2</b>	329.6	726.6
07-82006-A	07-82006-00-CI	Gold plated finishing of the visible cabin metallized parts <b>3</b>	tbd	tbd
07-90004-A	07-90004-00-CI	VIP treatment of the cockpit <b>3</b>	tbd	tbd

- 1** The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter's delivery.
- 2** Requires the "2 hinged passengers doors with 2 rear doors extensions", the "Passenger interphone for active noise cancelling headsets 1 x NAT AA-36 + 2 x NAT AA-82", the "Passenger interphone TEAM BA 1920 (for VIP handset)" and some "Active noise cancelling headset BOSE X".
- 3** Option for "4/8 seat VIP installation".

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### STANDARD LEAD TIME VIP (continued)

Document reference	Commercial reference	Name	kg	lb
<b>Avionics</b>				
08-10012-A	08-10012-00-CI	HF/SSB COLLINS - HF 9100	24.5	54.0
08-12013-A	08-12013-00-CI	VHF/FM MARITIME NAT NPX 138	4.0	8.8
08-16043-A	08-16043-00-CI	InterCommunication System Third control box TEAM TB 31	1.6	3.5
08-17027-A	08-17027-01-CI	Passengers address NAT AA 20-431 with 4 loudspeakers	3.5	7.7
08-17028-A	08-17028-02-CI	Passenger interphone TEAM BA 1920 (for VIP handset)	1.4	3.1
08-17029-A	08-17029-00-CI	Passenger interphone for Active noise cancelling headsets (BOSE)1 x NAT AA-36 + 2 x NAT AA-82	1.8	4.0
08-18029-A	08-18029-00-CI	Active noise cancelling headset BOSE X <sup>1</sup>	0.5	1.1
08-22023-A	08-22023-01-CI	Transponder COLLINS TDR 94 D-007 with flight ident function No. 2 <sup>2</sup>	5.5	12.1
08-31025-A	08-31025-00-CI	Weather radar TELEPHONICS RDR 1400 C with VRU, displayed on ND	26.0	57.3
08-31027-A	08-31027-00-CI	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	10.6	23.4
08-35006-A	08-35006-00-CI	TAS RYAN 9900 BX (3" display)	10.5	23.1
08-43024-A	08-43024-00-CI	GPS <sup>3</sup> FREEFLIGHT TNL 2101 I/O APPROACH + linked with AFCS and ND	3.1	6.8
08-44033-A	08-44033-00-CI	Flight Management System Universal UNS-1F	9.2	20.3
08-46012-A	08-46012-00-CI	Jeppesen map HONEYWELL KMD 850, linked to GPS <sup>4</sup>	3.0	6.6
08-83002-A	08-83002-00-CI	HUMS (complement of UMS) (Health functions)	10.1	22.3

- All weight values are correct to  $\pm 2\%$
- The proposed EC 155 B1 is fitted with fixtures to receive ballast (30 kg max), should the mission loading required it.

- <sup>1</sup> Quantity to be defined.
- <sup>2</sup> The mode S identification must be communicated by the Customer two months at the latest before the delivery.
- <sup>3</sup> The Customer must take out a subscription to the data base in order to use the GPS after having taken delivery of the helicopter.
- <sup>4</sup> No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.

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

### CUSTOMIZED LEAD TIME

Document reference	Commercial reference	Name	kg	lb
		<b>1/ STANDARD AIRCRAFT</b>		
		EC 155 B1 05.100.01 E	2,619	5,774
00-50016-A	00-50016-00-CI	<b>2/ EC 155 B1 MINIMUM EQUIPMENT PACKAGE 1</b>	63.1	139.1
		Improved sound-proofing (86 dB)		
		VHF/AM Collins 422 A (No.1)		
		VHF/AM Collins 422 A (No.2)		
		InterCommunication System		
		with 2 control boxes TEAM TB 31		
		Crew headsets Silec 4449-1 (Qty2)		
		Transponder COLLINS TDR 94 D-007 with flight ident capability No.1 2		
		ADF COLLINS ADF 462		
		DME COLLINS DME 442		
		VOR/ILS COLLINS VIR 432 (No.1)		
		VOR/ILS COLLINS VIR 432 (No.2)		
		<b>3/ OPTIONAL EQUIPMENT</b>		
<b>General equipment</b>				
05-02023-A	05-02023-00-CI	Customized outside paint	2.5	5.5
05-03004-A	05-03004-00-CI	First aid kit	5.0	11.0
05-21008-A	05-21008-00-FP	Wire strike protection system - Fixed Parts	0.5	1.1
	05-21008-00-RP	Wire strike protection system - Removable Parts	5.5	12.1
05-22017-A	05-22017-00-CI	Fuzz burner on engines lubrication system	0.8	1.8
05-24014-A	05-24014-00-CI	High visibility markings of the main rotor blades	0.4	0.9
05-24015-A	05-24015-00-CI	High visibility markings of the main rotor blades tip cap	0.1	0.2
05-24016-A	05-24016-00-CI	Coning stops	5.9	13.0
05-25019-A	05-25019-00-FP	Sand prevention filters, dynamic type - Fixed Parts 3	4.3	9.5
	05-25019-00-RP	Sand prevention filters, dynamic type - Removable Parts 3	11.0	24.3
05-25021-A	05-25021-00-CI	Re-inforced sand erosion protection strip on main rotor blades	0.6	1.3
05-25022-A	05-25022-00-CI	Re-inforced sand erosion protection strip on tail rotor blades	0.1	0.2
05-26010-A	05-26010-00-CI	Additional anti-corrosion protection	2.5	5.5
05-27002-A	05-27002-00-CI	2nd fire extinguisher in the cabin	2.4	5.3

- 1 In addition to this package a beacon must be selected in the possible optional equipment (ELT or ADELTA).
- 2 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
- 3 Includes the supply of the standard cowlings.

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### CUSTOMIZED LEAD TIME (continued)

Document reference	Commercial reference	Name	kg	lb
<b>General equipment (continued)</b>				
05-32005-A	05-32005-00-CI	Windshield washer	2.6	5.7
05-36015-A	05-36015-00-CI	Retractable passenger footsteps instead of standard equipment (left and right side)	29.2	64.4
05-38008-A	05-38008-00-CI	Single Pilot IFR kit	1.8	4.0
05-42027-A	05-42027-00-CI	Air conditioning system (mechanically driven)	29.0	63.9
05-42028-A	05-42028-00-CI	Air conditioning system (electrically powered) <sup>1</sup>	39.4	86.9
05-42030-A	05-42030-00-CI	2-area air conditioning system (electrically powered) <sup>1</sup>	68.0	149.9
05-42032-A	05-42032-00-CI	Ground pre-conditioning system for 2-area air conditioning system	11.0	24.3
05-51006-A	05-51006-00-CI	De-icing of panes in front of the crew <sup>1</sup>	1.5	3.3
05-52010-A	05-52010-00-CI	Icing detector (Rosemount)	0.9	2.0
05-62005-A	05-62005-00-CI	10-kVA A.C. alternator	22.4	49.4
05-81019-A	05-81019-00-FP	Auxiliary fuel tank in the hold (180 litres - 47 US gal.) - Fixed Parts	17.2	37.9
	05-81019-00-RP	Auxiliary fuel tank in the hold (180 litres - 47 US gal.) - Removable Parts	25.1	55.3
05-86004-A	05-86004-00-CI	Fuel heating system	6.0	13.2
<b>Specific mission equipment</b>				
06-11026-A	06-11026-00-FP	Anti-sticking protection - Fixed Parts	9.1	20.1
	06-11026-00-RP	Anti-sticking protection - Removable Parts	22.0	48.5
06-21009-A	06-21009-00-FP	Electrical hoist ( 272 kg - 90 m ) AIR EQUIPEMENT - Fixed-Parts <sup>2</sup>	4.4	9.7
06-21009-A	06-21009-00-RP	Electrical hoist ( 272 kg - 90 m ) AIR EQUIPEMENT - Removable Parts <sup>2</sup>	63.0	138.9
06-24013-A	06-24013-00-FP	Rappelling (ropes are not included) - Fixed Parts	3.0	6.6
	06-24013-00-RP	Rappelling (ropes are not included) - Removable Parts	2.2	4.9
06-27021-A	06-27021-00-FP	Cargo sling dynamometer, outside mirror (1,600 kg – 3,527 lb) - Fixed Parts	6.9	15.2
06-27021-A	06-27021-00-RP	Cargo sling dynamometer, outside mirror (1,600 kg – 3,527 lb) - Removable Parts	24.3	53.6
06-27024-A	06-27024-00-FP	Cargo sling, dynamometer, outside mirror (1,600 kg - 3,527 lb), life rafts installation compatible - Fixed Parts	2.2	4.9
06-27024-A	06-27024-00-RP	Cargo sling, dynamometer, outside mirror (1,600 kg - 3,527 lb), life rafts installation compatible - Removable Parts	24.3	53.6
06-31015-A	06-31015-00-FP	Electrical hailer with siren system - Fixed Parts	6.9	15.2
	06-31015-00-RP	Electrical hailer with siren system - Removable Parts	10.9	24

<sup>1</sup> Implies the 10 kVA AC alternator.

<sup>2</sup> Requires the "Third control box 1976 in cabin for TEAM TB 31 ICS".

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### CUSTOMIZED LEAD TIME (continued)

Document reference	Commercial reference	Name	kg	lb
<b>Specific mission equipment (continued)</b>				
06-41011-A	06-41011-00-CI	Under fuselage anti-collision strobe light	1.0	2.2
06-41012-A	06-41012-00-CI	Tail fin anti-collision strobe light	0.2	0.4
06-45008-A	06-45008-00-FP	Searchlight SPECTROLAB SX-16 - Fixed Parts	4.8	10.6
	06-45008-00-RP	Searchlight SPECTROLAB SX-16 - Removable Parts	33.4	73.6
06-45030-A	06-45030-00-FP	SPECTROLAB SX-16 search light with infrared in-flight changeover - Fixed Parts	4.8	10.6
	06-45030-00-RP	SPECTROLAB SX-16 search light with infrared in-flight changeover - Removable Parts <sup>1</sup>	41.9	92.4
06-45031-A	06-45031-00-CI	Infrared filter for SPECTROLAB SX-16 search light <sup>1</sup>	1.5	3.3
06-510xx-A	06-510xx-00-FP	Pod Mounted Flir tbd (RH side) displayed in cockpit - Fixed Parts	tbd	tbd
	06-510xx-00-RP	Pod Mounted Flir tbd (RH side) displayed in cockpit - Removable Parts <sup>2 - 3</sup>	tbd	tbd
06-61009-A	06-61009-00-FP	Emergency floatation gear - Fixed Parts	11.1	24.5
	06-61009-00-RP	Emergency floatation gear - Removable Parts	48.9	107.8
06-62011-A	06-62011-00-CI	Life-raft installation (2 x 10 pax)	87.2	192.2
06-66005-A	06-66005-00-CI	Heel lights	4.0	8.8
06-67032-A	06-67032-00-CI	Emergency locator Transmitter KANNAD 406-AF <sup>4</sup>	2.4	5.3
06-67040-A	06-67040-00-CI	Automatic deployable Emergency Locator Transmitter HR SMITH series 503 <sup>4</sup>	7.1	15.7
06-68004-A	06-68004-00-CI	Under Water Acoustic Beacon DUKANE DK 100	0.5	1.1
06-69003-A	06-69003-00-CI	AVAD RACAL V 694 type	2.3	5.1
06-70001-A	06-70001-00-CI	Kit for NVG cockpit, cabin and external lighting <sup>2 - 5</sup>	5.9	13

<sup>1</sup> NVG compatibility.

<sup>2</sup> This equipment is submitted to Export Licence Allowance.

<sup>3</sup> Requires the Skyquest 10,4" display in cockpit and a possible VCR.

<sup>4</sup> The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter's delivery.

<sup>5</sup> The references of most equipment fitted with a control box must be changed to switch to NVG compatible version.

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### CUSTOMIZED LEAD TIME (continued)

Document reference	Commercial reference	Name	kg	lb
<b>Interior layout</b>				
07-25015-A	07-25015-00-CI	12 Seat cabin lay-out with 4 point harnesses and headrests	94.7	208.8
07-25030-A	07-25030-00-CI	9-seat cabin lay out with 4 points harnesses and headrests	131.9	290.8
07-30016-A	07-30016-00-CI	Additional upholstery	16.3	35.9
07-50011-A	07-50011-00-CI	2 hinged passengers doors with 2 rear doors extensions (instead of the standard sliding doors)	14.3	31.5
07-60010-A	07-60010-00-CI	Quick loading luggage hold customization	14.1	31.1
07-81004-A	07-81004-00-CI	4/8 seat VIP installation with enhanced sound-proofing and carpeting <sup>1</sup>	329.6	726.6
07-82006-A	07-82006-00-CI	Gold plated finishing of the visible cabin metallized parts <sup>2</sup>	tbd	tbd
07-90004-A	07-90004-00-CI	VIP treatment of the cockpit <sup>2</sup>	tbd	tbd
<b>Avionics</b>				
08-10012-A	08-10012-00-CI	HF/SSB Collins - HF 9100	24.5	54.0
08-12013-A	08-12013-00-CI	VHF/FM MARITIME NAT NPX 138	4.0	8.8
08-14031-A	08-14031-00-CI	V/UHF FM ALLIED SIGNAL RT 5000	12.8	28.2
08-15022-A	08-15022-00-CI	Medium range video down link installation	9.0	19.8
08-15023-A	08-15023-00-CI	Ground station for medium range down link installation	-	-
08-16043-A	08-16043-00-CI	InterCommunication System Third control box TEAM TB 31	1.6	3.5
08-16044-A	08-16044-00-CI	InterCommunication System Fourth control box TEAM TB 31	1.6	3.5
08-17027-A	08-17027-00-CI	Passengers address NAT AA 20-431 with 6 loudspeakers	4.5	9.9
	08-17027-01-CI	Passengers address NAT AA 20-431 with 4 loudspeakers	3.5	7.7
08-17028-A	08-17028-01-CI	Passenger interphone Team BA 1920 (for 12 passengers)	1.6	3.5
08-17028-A	08-17028-02-CI	Passenger interphone TEAM BA 1920 (for VIP handset)	1.4	3.1
08-17029-A	08-17029-00-CI	Passenger interphone for Active noise cancelling headsets (BOSE) 1 x NAT AA-36 + 2 x NAT AA-82	1.8	4.0
08-18022-A	08-18022-00-CI	ELNO FPH 600 helmet <sup>3</sup>	1.1	2.4
08-18028-A	08-18028-01-CI	Crew headset Silec 4449-1	0.5	0.9
08-18029-A	08-18029-00-CI	Active noise cancelling headset BOSE X <sup>3</sup>	0.5	1.1
08-19016-A	08-19016-00-CI	Centralized radio control boxes with 2 stand-by boxes COLLINS (2 x RTU 4200 + CTL 23, CTL 93)	1.5	3.3

- <sup>1</sup> Requires the "2 hinged passengers doors with 2 rear doors extensions", the "Passenger interphone for active noise cancelling headsets 1 x NAT AA-36 + 2 x NAT AA-82", the "Passenger interphone TEAM BA 1920 (for VIP installation)" and some "Active noise cancelling headset BOSE X".
- <sup>2</sup> Option for "4/8 seat VIP installation".
- <sup>3</sup> Quantity to be defined.

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### CUSTOMIZED LEAD TIME (continued)

Document reference	Commercial reference	Name	kg	lb
<b>Avionics (continued)</b>				
08-22023-A	08-22023-01-CI	Transponder COLLINS TDR 94 D-007 with flight ident function n°2 <sup>1</sup>	5.5	12.1
08-27032-A	08-27032-00-CI	SAR Homer CHELTON	4.0	8.8
08-27033-A	08-27033-00-CI	Directional Finder CHELTON DF 931	9.0	19.8
08-31025-A	08-31025-00-CI	Weather radar TELEPHONICS RDR 1400 C with VRU, displayed on ND	26.0	57.3
08-31027-A	08-31027-00-CI	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	10.6	23.4
08-35006-A	08-35006-00-CI	TAS RYAN 9900 BX (3" display)	10.5	23.1
08-43024-A	08-43024-00-CI	GPS <sup>2</sup> FREEFLIGHT TNL 2101 I/O APPROACH + linked with AFCS and ND	3.1	6.8
08-44033-A	08-44021-00-CI	Flight Management System UNIVERSAL UNS-1F	9.2	20.3
08-46012-A	08-46012-00-CI	Jeppesen map HONEYWELL KMD 850, linked to GPS <sup>3</sup>	3.0	6.6
08-46023-A	08-46023-00-CI	Moving map EUROAVIONICS EURONAV IV linked to GPS	8.3	18.3
08-65012-A	08-65012-00-CI	Skyquest Aviation 10,4" display	2.4	5.3
08-81024-A	08-81024-00-CI	Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hours CVR and 10 hours FDR recording) <sup>4</sup>	14.0	30.8
08-83001-A	08-83001-00-CI	UMS (complement of SSCVFDR) (Usage functions) - Ground station excluded <sup>5</sup>	1.5	3.3
08-83002-A	08-83002-00-CI	HUMS (complement of UMS) (Health functions) <sup>6</sup>	10.1	22.3
08-85005-A	08-85005-00-CI	Britannia 2640 Airborne Digital VCR	1.2	2.2

- <sup>1</sup> The mode S identification must be communicated by the Customer two months at the latest before the delivery.
- <sup>2</sup> The Customer must take out a subscription to the data base in order to use the GPS after having taken delivery of the helicopter.
- <sup>3</sup> No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.
- <sup>4</sup> Includes an underwater beacon.
- <sup>5</sup> Requires the Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI.
- <sup>6</sup> Requires the UMS.

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



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



## 4- Incompatibilities between optional equipment

- Impossibility of simultaneous fitment of the fixed parts of 2 items of equipment
- ▲ Total or partial incompatibility of simultaneous fitment of the removal parts of two items of equipment
- Possibility of simultaneous fitment on the same aircraft, but impossible to use simultaneously

Document Reference	Commercial Reference	Installation	Nature of the incompatibility		
			■	▲	●
		<b>PACKAGES</b>			
00-50014-A	<b>00-50014-00-CI</b>	STANDARD LEAD TIME COMMON EQUIPMENT PACKAGE	05-50016-00-CI		
00-50016-A	<b>05-50016-00-CI</b>	EC 155 B1 MINIMUM EQUIPMENT PACKAGE	00-50014-00-CI		
		<b>GENERAL ITEMS OF EQUIPMENT</b>			
05-24014-A	<b>05-24014-00-CI</b>	High visibility markings of the main rotor blades	05-24015-00-CI		
05-24015-A	<b>05-24015-00-CI</b>	High visibility markings of the main rotor blades tip cap	05-24014-00-CI		
05-36015-A	<b>05-36015-00-CI</b>	Retractable passenger footsteps instead of standard equipment (left and right side)	06-21009-00-FP 06-21009-00-RP 06-24013-00-FP 06-24013-00-RP 06-31015-00-FP 06-31015-00-RP 06-62011-00-CI 07-25015-00-CI		06-27021-00-RP 06-27024-00-RP
05-42027-A	<b>05-42027-00-CI</b>	Air conditioning system (mechanically driven)	05-42028-00-CI 05-42030-00-CI 05-42032-00-CI 05-62005-00-CI		
05-42028-A	<b>05-42028-00-CI</b>	Air conditioning system (electrically powered)	05-42027-00-CI 05-42030-00-CI 05-42032-00-CI		
05-42030-A	<b>05-42030-00-CI</b>	2-area air conditioning system (electrically powered)	05-42027-00-CI 05-42028-00-CI		
05-42032-A	<b>05-42032-00-CI</b>	Ground pre-conditioning system for 2-area air conditioning system	05-42027-00-CI 05-42028-00-CI		
05-62005-A	<b>05-62005-00-CI</b>	10-kVA A.C. alternator	05-42027-00-CI		
05-81019-A	<b>05-81019-00-FP</b>	Auxiliary fuel tank in the hold (180 litres - 47 US gal.)	07-60010-00-CI		
	<b>05-81019-00-RP</b>		07-60010-00-CI		
		<b>SPECIFIC MISSION EQUIPMENT</b>			
06-11025-A	<b>06-11025-00-FP</b>	Skis	06-11026-00-FP 06-11026-00-RP		
	<b>06-11025-00-RP</b>		06-11026-00-FP 06-11026-00-RP		

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Document Reference	Commercial Reference	Installation	Nature of the incompatibility		
			■	▲	●
06-11026-A	<b>06-11026-00-FP</b>	Anti-sticking protection	06-11025-00-FP 06-11025-00-RP		
	<b>06-11026-00-RP</b>		06-11025-00-FP 06-11025-00-RP		
06-21009-A	<b>06-21009-00-FP</b>	Electrical hoist (272 kg - 90 m) AIR EQUIPEMENT	05-36015-00-CI 07-50011-00-CI 07-81004-00-CI 07-82006-00-CI 07-90004-00-CI		
	<b>06-21009-00-RP</b>		05-36015-00-CI 07-50011-00-CI 07-81004-00-CI 07-82006-00-CI 07-90004-00-CI		06-24013-00-RP 06-27021-00-RP 06-27024-00-RP 07-25015-00-CI 07-25030-00-CI
06-24013-A	<b>06-24013-00-FP</b>	Rappelling (ropes are not included)	05-36015-00-CI 07-50011-00-CI 07-81004-00-CI 07-82006-00-CI 07-90004-00-CI		
	<b>06-24013-00-RP</b>		05-36015-00-CI 07-50011-00-CI 07-81004-00-CI 07-82006-00-CI 07-90004-00-CI		06-21009-00-RP 06-27021-00-RP 06-27024-00-RP 06-31015-00-RP 06-45008-00-RP 06-45030-00-RP 07-25015-00-CI 07-25030-00-CI
06-27021-A	<b>06-27021-00-FP</b>	Cargo sling ,dynamometer, outside mirror (1,600 kg - 3,527 lb)	06-27024-00-FP 06-62011-00-CI		
	<b>06-27021-00-RP</b>		06-27024-00-RP 06-62011-00-CI		05-36015-00-CI 06-21009-00-RP 06-24013-00-RP 07-81004-00-CI 07-82006-00-CI 07-90004-00-CI
06-27024-A	<b>06-27024-00-FP</b>	Cargo sling, dynamometer, outside mirror (1,600 kg - 3,527 lb), life rafts installation compatible	06-27021-00-FP		
	<b>06-27024-00-RP</b>		06-27021-00-RP		05-36015-00-CI 06-21009-00-RP 06-24013-00-RP 07-81004-00-CI 07-82006-00-CI 07-90004-00-CI
06-31015-A	<b>06-31015-00-FP</b>	Electrical hailer with siren system	05-36015-00-CI 06-62011-00-CI		
	<b>06-31015-00-RP</b>		05-36015-00-CI 06-62011-00-CI		06-24013-00-RP
06-45008-A	<b>06-45008-00-FP</b>	Search light SPECTROLAB SX 16	06-45030-00-FP 06-45030-00-RP		
	<b>06-45008-00-RP</b>		06-45030-00-FP 06-45030-00-RP		06-24013-00-RP
06-45030-A	<b>06-45030-00-FP</b>	SPECTROLAB SX-16 search light with infrared in-flight changeover	06-45008-00-FP 06-45008-00-RP 06-45031-00-CI		
	<b>06-45030-00-RP</b>		06-45008-00-FP 06-45008-00-RP 06-45031-00-CI		06-24013-00-RP

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Document Reference	Commercial Reference	Installation	Nature of the incompatibility		
			■	▲	●
06-45031-A	<b>06-45031-00-CI</b>	Infrared filter for SPECTROLAB SX-16 searchlight	06-45030-00-FP 06-45030-00-RP		
06-62011-A	<b>06-62011-00-CI</b>	Life-raft installation (2 x 10 pax)	05-36015-00-CI 06-27021-00-FP 06-27021-00-RP 06-31015-00-FP 06-31015-00-RP 07-50011-00-CI 07-81004-00-CI 07-82006-00-CI 07-90004-00-CI		
06-66005-A	<b>06-66005-00-CI</b>	Helicopter Emergency Egress Lighting (HEEL)	07-50011-00-CI 07-81004-00-CI 07-82006-00-CI 07-90004-00-CI		
		<b>INTERIOR LAYOUT</b>			
07-25015-A	<b>07-25015-00-CI</b>	12-seat cabin lay out with 4 points harnesses and headrests	05-36015-00-CI 07-25030-00-CI 07-50011-00-CI 07-81004-00-CI 07-82006-00-CI 07-90004-00-CI		06-21009-00-RP 06-24013-00-RP
07-25030-A	<b>07-25030-00-CI</b>	9-seat cabin lay out with 4 points harnesses and headrests	07-25015-00-CI 07-50011-00-CI 07-81004-00-CI 07-82006-00-CI 07-90004-00-CI		06-21009-00-RP 06-24013-00-RP
07-30016-A	<b>07-30016-00-CI</b>	Additional upholstery	07-50011-00-CI 07-81004-00-CI 07-82006-00-CI 07-90004-00-CI		
07-50011-A	<b>07-50011-00-CI</b>	2 hinged-passengers doors with 2 rear doors extensions (instead of the standard sliding doors)	06-21009-00-FP 06-21009-00-RP 06-24013-00-FP 06-24013-00-RP 06-62011-00-CI 06-66005-00-CI 07-25015-00-CI 07-25030-00-CI 07-30016-00-CI		
07-60010-A	<b>07-60010-00-CI</b>	Quick loading luggage hold customization	05-81019-00-FP 05-81019-00-RP		
07-81004-A	<b>07-81004-00-CI</b>	4/8 seat VIP installation with enhanced sound-proofing and carpeting	06-21009-00-FP 06-21009-00-RP 06-24013-00-FP 06-24013-00-RP 06-62011-00-CI 06-66005-00-CI 07-25015-00-CI 07-25030-00-CI 07-30016-00-CI 08-17027-00-CI		06-27021-00-RP 06-27024-00-RP

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Document Reference	Commercial Reference	Installation	Nature of the incompatibility		
			■	▲	●
07-82006-A	<b>07-82006-00-CI</b>	Gold plated finishing of the visible metallized parts	06-21009-00-FP 06-21009-00-RP 06-24013-00-FP 06-24013-00-RP 06-62011-00-CI 06-66005-00-CI 07-25015-00-CI 07-25030-00-CI 07-30016-00-CI		06-27021-00-RP 06-27024-00-RP
07-90004-A	<b>07-90004-00-CI</b>	VIP treatment of the cockpit	06-21009-00-FP 06-21009-00-RP 06-24013-00-FP 06-24013-00-RP 06-62011-00-CI 06-66005-00-CI 07-25015-00-CI 07-25030-00-CI 07-30016-00-CI		06-27021-00-RP 06-27024-00-RP
		<b>AVIONICS</b>			
08-17027-A	<b>08-17027-00-CI</b>	Passengers address NAT AA 20-431 with 6 loudspeakers	07-81004-00-CI		
08-31025-A	<b>08-31025-00-CI</b>	Weather radar TELEPHONICS RDR 1400 C with VRU, displayed on ND	08-31027-00-CI		
08-31027-A	<b>08-31027-00-CI</b>	Weather Radar HONEYWELL RDR 2000 with VRU, displayed on ND	08-31025-00-CI		

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## 5- Main performance

The following performance values and figures refer to an EC 155 B1, equipped with new engines. Unless otherwise specified, the values and figures refer to a clean helicopter at Sea Level (SL), in International Standard Atmosphere (ISA) and zero wind condition.

### Performance on 2 engines

Gross Weight	kg	4,000	4,400	4,850	4,920
	lb	8,818	9,700	10,692	10,846
■ Max. speed, VNE	km/hr	324	324	324	324
	kts	175	175	175	175
■ Fast cruise speed (0 ft)	km/hr	280	274	267	265
	kts	151	148	144	143
■ Fast cruise speed (6000 ft)	km/hr	296	288	279	278
	kts	160	156	151	150
■ Recommended cruise speed (0 ft)	km/hr	261	270	267	265
	kts	141	146	144	143
■ Recommended cruise speed (6000ft)	km/hr	270	268	270	270
	kts	145	145	146	146
■ Fuel consumption at recommended cruise speed	kg/hr	317	339	345	345
	lb/hr	700	747	761	761
■ Rate-of-climb	m/sec.	8.9	7.5	6.0	5.8
	ft/min.	1,766	1,478	1,195	1,154
■ Hover ceiling I.G.E. at Take-Off Power (6 ft)					
● ISA	m	4,145	3,230	2,285	2,145
	ft	13,600	10,600	7,500	7,050
● ISA + 20°C	m	3,245	2,345	1,370	1,230
	ft	10,650	7,700	4,500	4,050
■ Hover ceiling O.G.E. at Take-Off Power					
● ISA	m	3,320	2,435	-	-
	ft	10,900	8,000	-	-
● ISA + 20°C	m	2,375	1,430	-	-
	ft	7,800	4,700	-	-
■ Service ceiling (Vz = 0,5 m / sec. – 100 ft/min.)					
● ISA	m	>4,572	>4,572	>4,572	>4,572
	ft	>15,000	>15,000	>15,000	>15,000
● ISA + 20 °C	m	>4,572	>4,572	4,126	3,990
	ft	>15,000	>15,000	13,537	13,093
■ Maximum range (without fuel reserve, at recommended cruise speed)					
● with standard tanks	km	847	823	795	791
	n.m	457	444	429	427
● with optional auxiliary tank	km	973	945	913	909
	n.m	525	510	493	491
■ Maximum endurance [without reserve at 140 km/hr (87 mph - 75 kts)]					
● with standard tanks	hr:min	4:27	4.18	4:07	4:05
● with optional auxiliary tank	hr:min	5:07	4.56	4:44	4:42

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## Operating limitations

The aircraft is cleared to operate within the following altitude and temperature limitations (refer to the Flight Manual for complementary information):

- Maximum pressure altitude in flight                      15,000 ft – 4,572 m (Standard Atmosphere conditions)
  
- Take-off and landing    13,000 ft – 3,962 m (density altitude) or 15,000 ft – 4,572 m (pressure altitude)
  
- Maximum temperature    ISA + 35 °C limited at + 50°C
  
- Minimum temperature    - 40°C for weight ≤ 4,850 kg  
     - 30 °C for weight > 4,850 kg

## Abbreviations

IGE:	In Ground Effect
ISA:	International Standard Atmosphere
OEI:	One Engine Inoperative
OGE:	Out of Ground Effect
SL:	Sea Level
Vy	Optimum Climbing Speed

### Units

Nm:	nautical miles	hr:min:	hours:minutes
Kts:	knots	kg:	kilograms
ft/min:	feet/minute	lb:	pounds
m/sec:	meters per seconds	km:	kilometers
° C:	degrees Celsius		

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## Performance charts

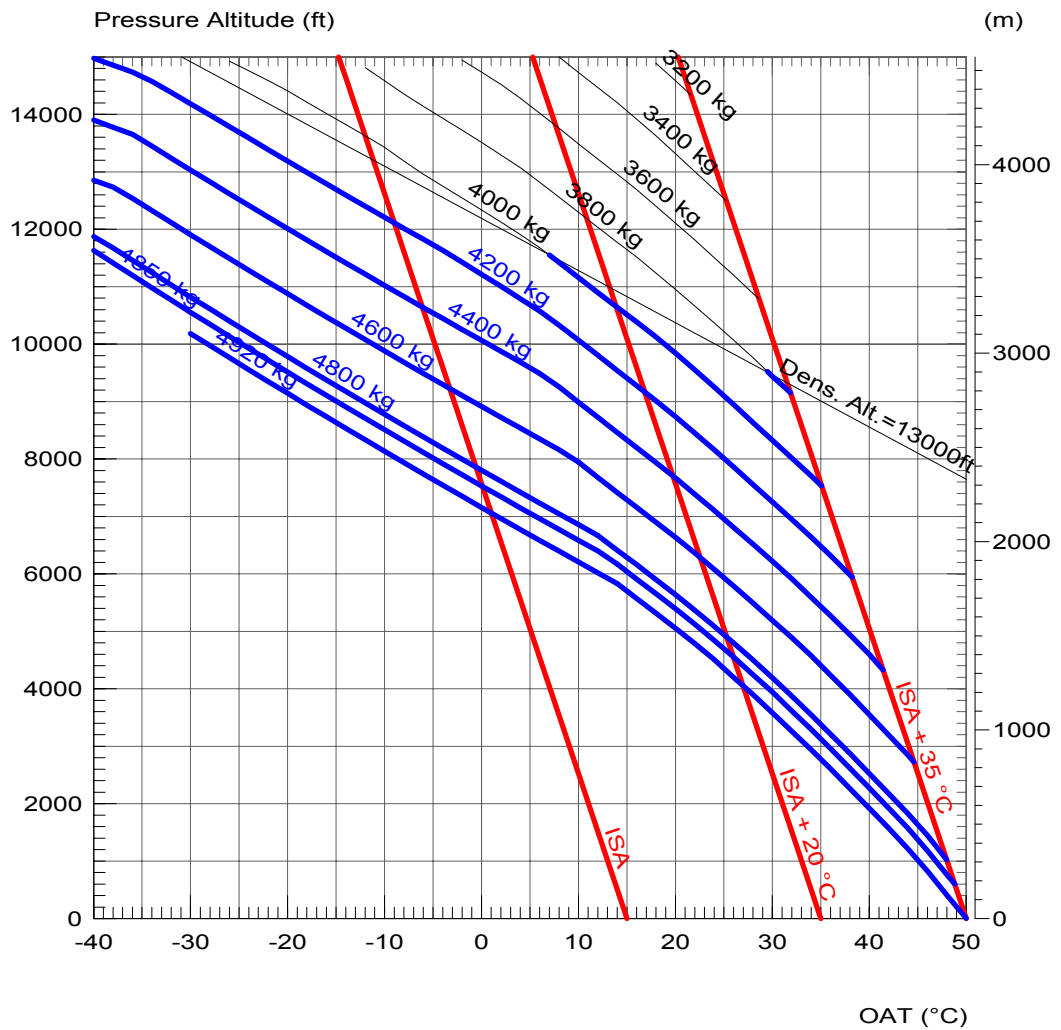
The performance charts presented hereafter apply to an aircraft as per the standard definition.

- Twin-engine hover IGE maximum weights  
height 6ft, both engines at takeoff rating, +/- 60 ° headwind Page 32
- Twin-engine hover OGE maximum weights  
both engines at takeoff rating Page 33
- Category A – Maximum takeoff weight on clear area  
VTOSS ≥ 60 kts Page 35
- Fast cruise speed  
twin-engine at Maximum Continuous Rating  
ISA Page 36
- Fast cruise speed  
twin-engine at Maximum Continuous Rating  
ISA + 20 Page 37
- Rate of climb  
twin-engine at Maximum Continuous Rating - T.A.S. = 80 kts  
ISA Page 38
- Rate of climb  
twin-engine at Maximum Continuous Rating - T.A.S. = 80 kts  
ISA + 20 Page 39
- Rate of climb  
one engine inoperative – Continuous power rating – T.A.S. = 80 ktss  
ISA Page 40
- Rate of climb  
one engine inoperative – Continuous power rating – T.A.S. = 80 kts  
ISA + 20 Page 41
- Hourly fuel consumption in level flight  
Pressure-altitude = 0 ft, ISA (temperature = 15°C) Page 42
- Hourly fuel consumption in level flight  
Pressure-altitude = 5000 ft, ISA (temperature = 5°C) Page 43
- Hourly fuel consumption in level flight  
Pressure-altitude = 0 ft, ISA + 20 (temperature = 35°C) Page 44
- Hourly fuel consumption in level flight  
Pressure-altitude = 5000 ft, ISA + 20 (temperature = 25°C) Page 45
- Payload / Range chart  
Pressure-altitude = sea level / 5000 ft, ISA Page 46
- Payload / Range chart  
Pressure-altitude = sea level / 5000 ft, ISA + 20 °C Page 47

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**TWIN-ENGINE HOVER IGE MAXIMUM WEIGHTS (6 ft)**

**both engines at takeoff rating  
(without wind or with +/- 60° headwind)**

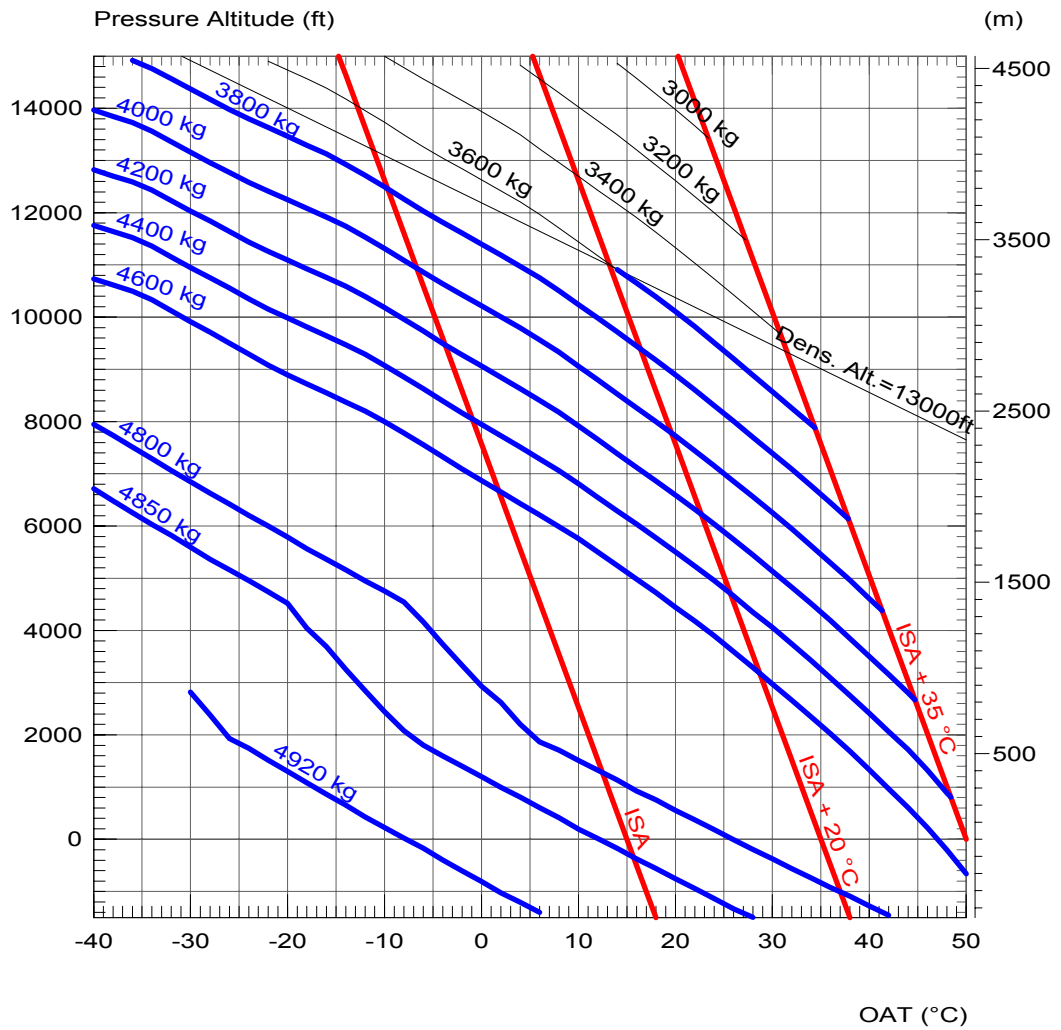


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**TWIN-ENGINE HOVER OGE MAXIMUM WEIGHTS**

**both engines at takeoff rating**



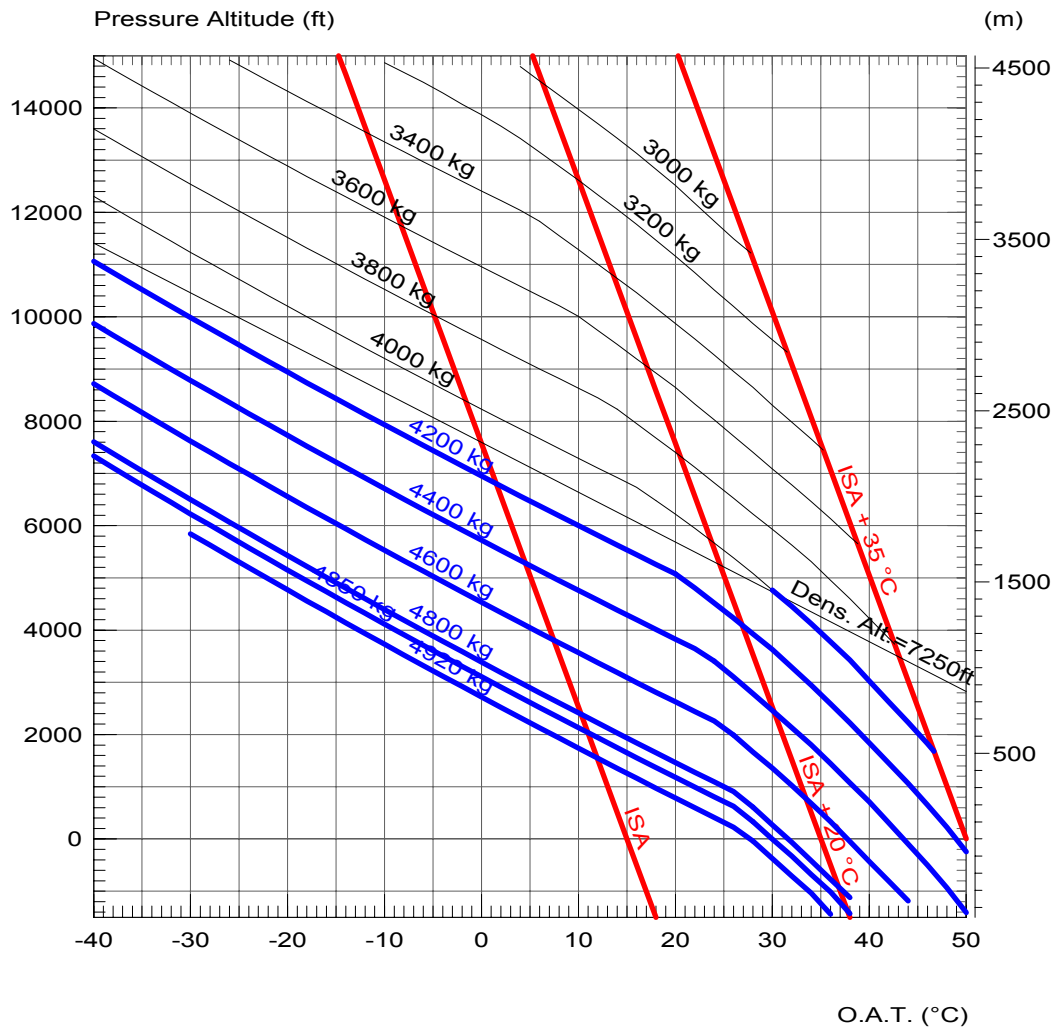
*The data set forth in this document are general in nature and for information purposes only. They may vary with conditions. For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.*

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**CATEGORY A**  
**MAXIMUM TAKEOFF WEIGHT ON CLEAR AREA**

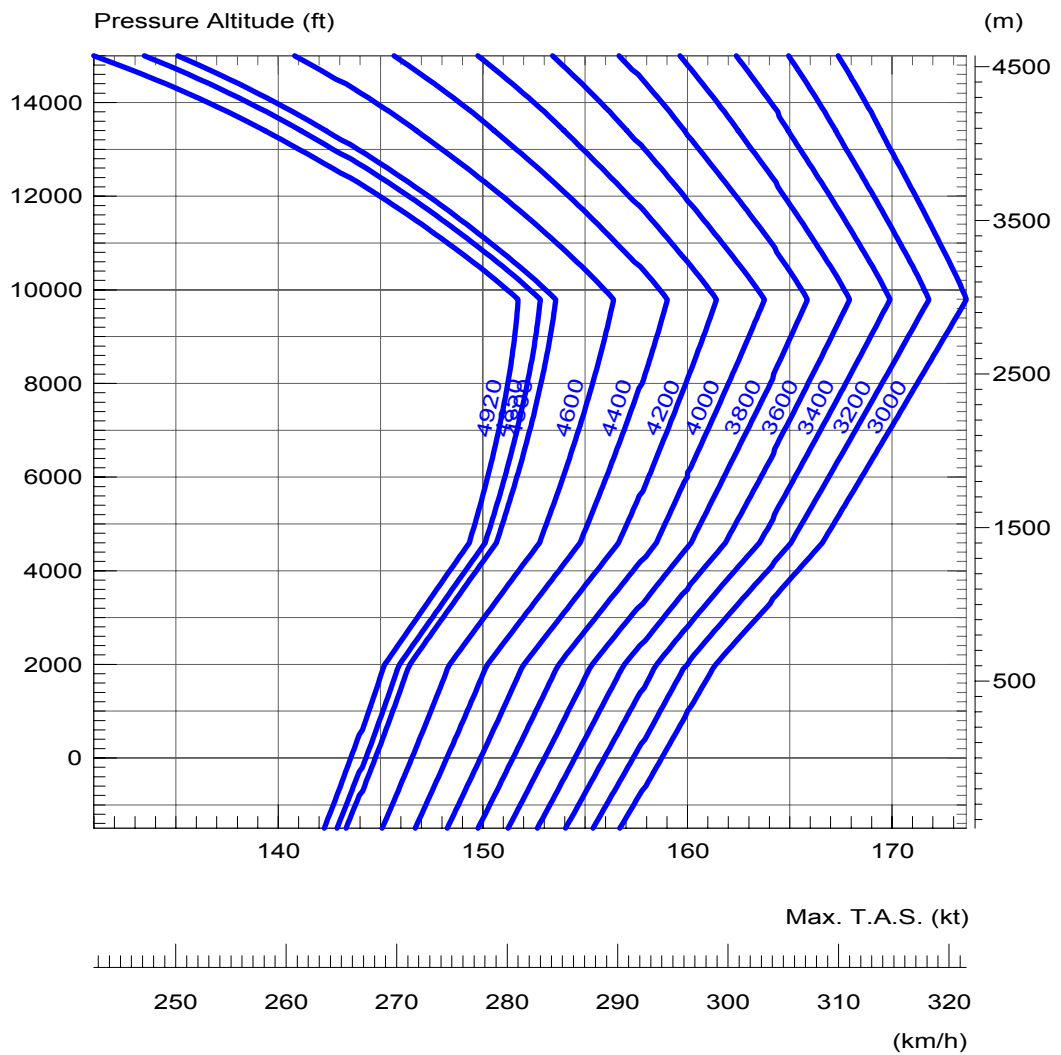
**VTROSS ≥ 60 kts**



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**FAST CRUISE SPEED**

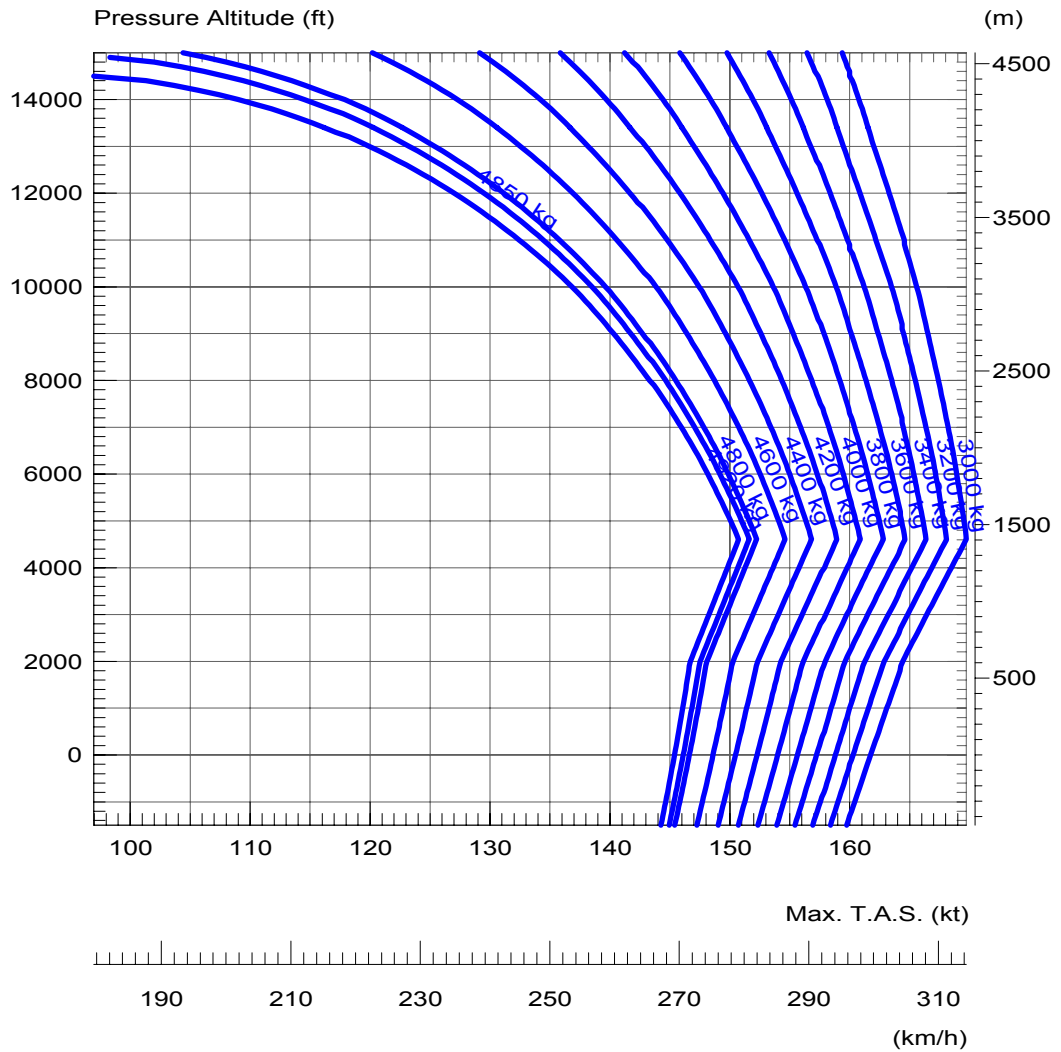
**Twin-engine at Maximum Continuous Rating  
(ISA)**



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**FAST CRUISE SPEED**

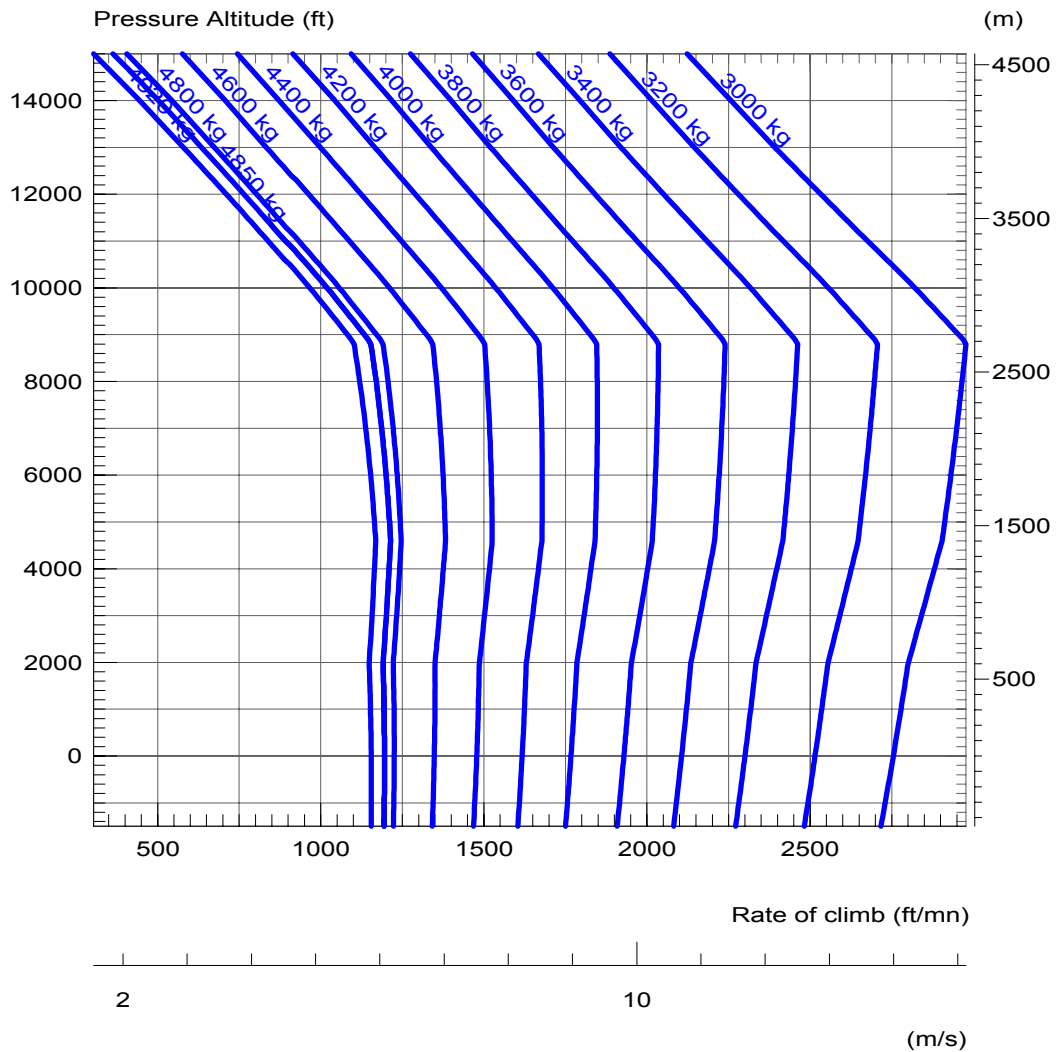
**Twin-engine at Maximum Continuous Rating  
(ISA + 20 °C)**



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**RATE OF CLIMB**

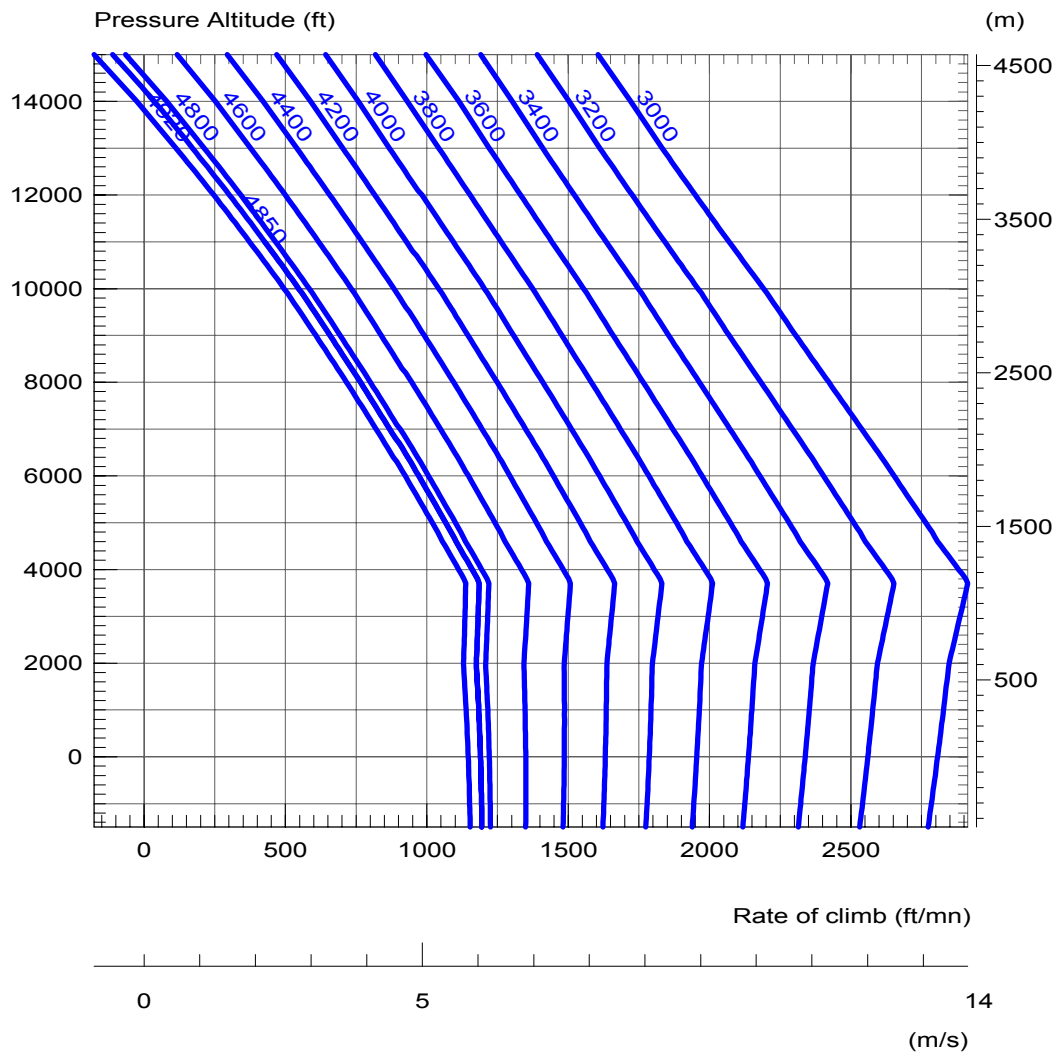
**Twin-engine at Maximum Continuous Rating**  
**ISA - T.A.S. = 80 kts**



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**RATE OF CLIMB**

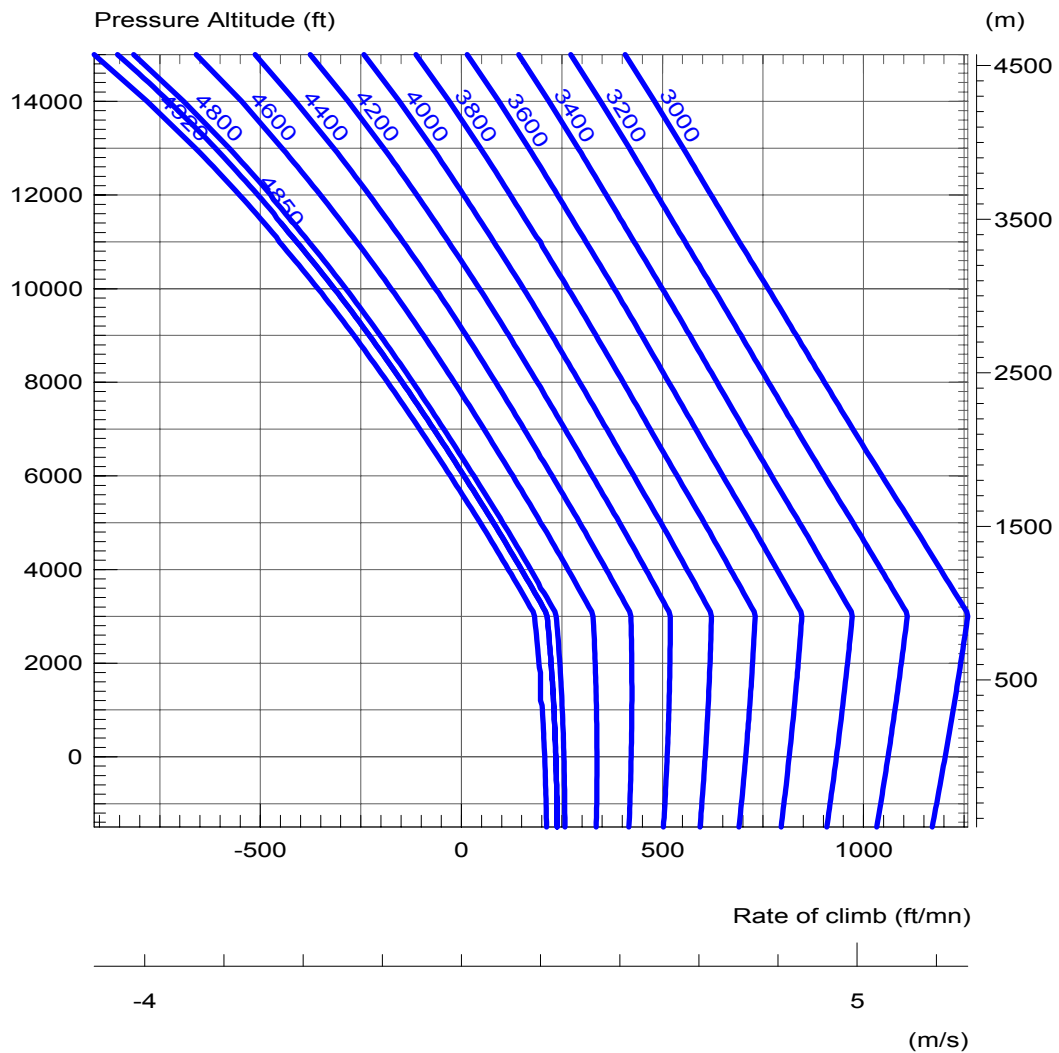
**Twin-engine at Maximum Continuous Rating**  
**ISA + 20 °C - T.A.S. = 80 kts**



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**RATE OF CLIMB**

**One engine inoperative – Continuous Power Rating**  
**ISA - T.A.S. = 80 kts**

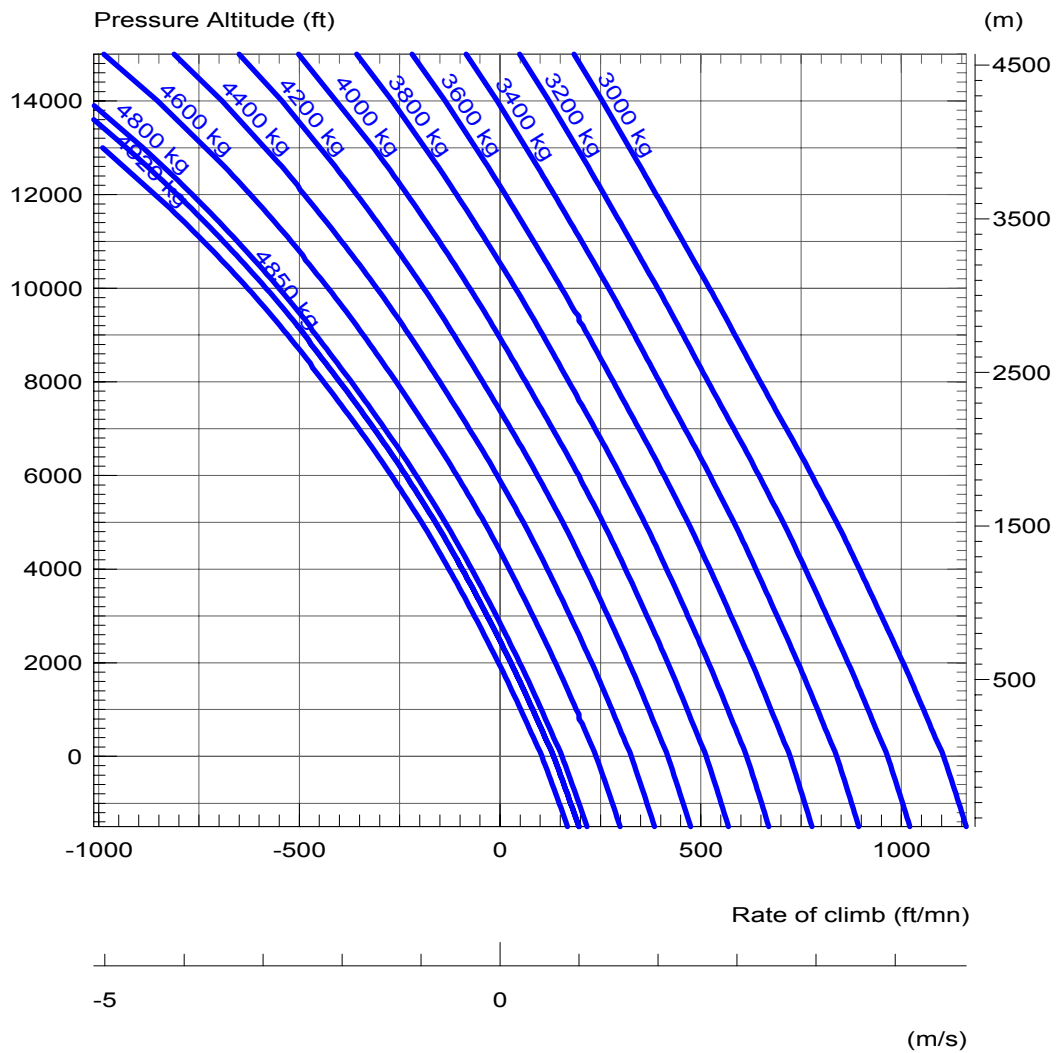


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**RATE OF CLIMB**

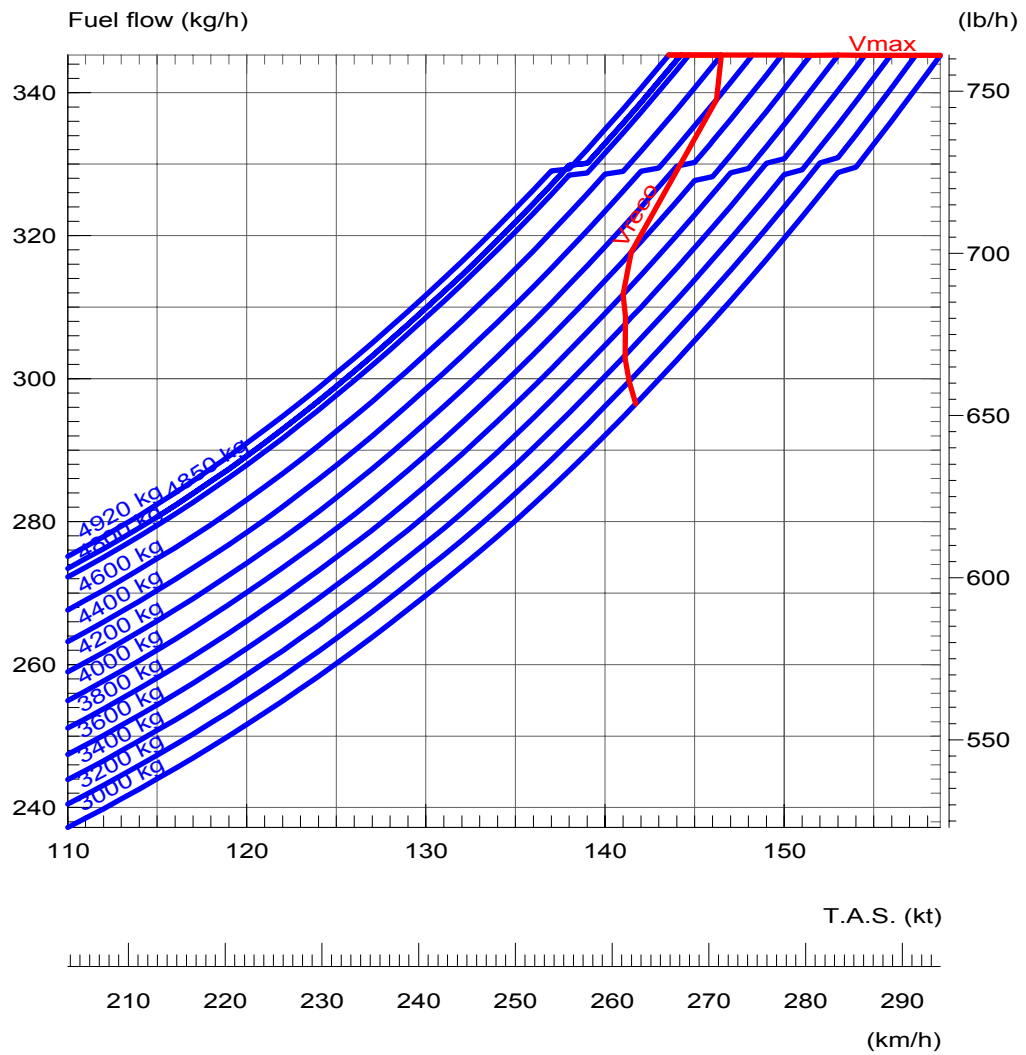
**One engine inoperative – Continuous Power Rating**  
**ISA + 20 °C - T.A.S. = 80 kts**



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**HOURLY FUEL CONSUMPTION IN LEVEL FLIGHT**

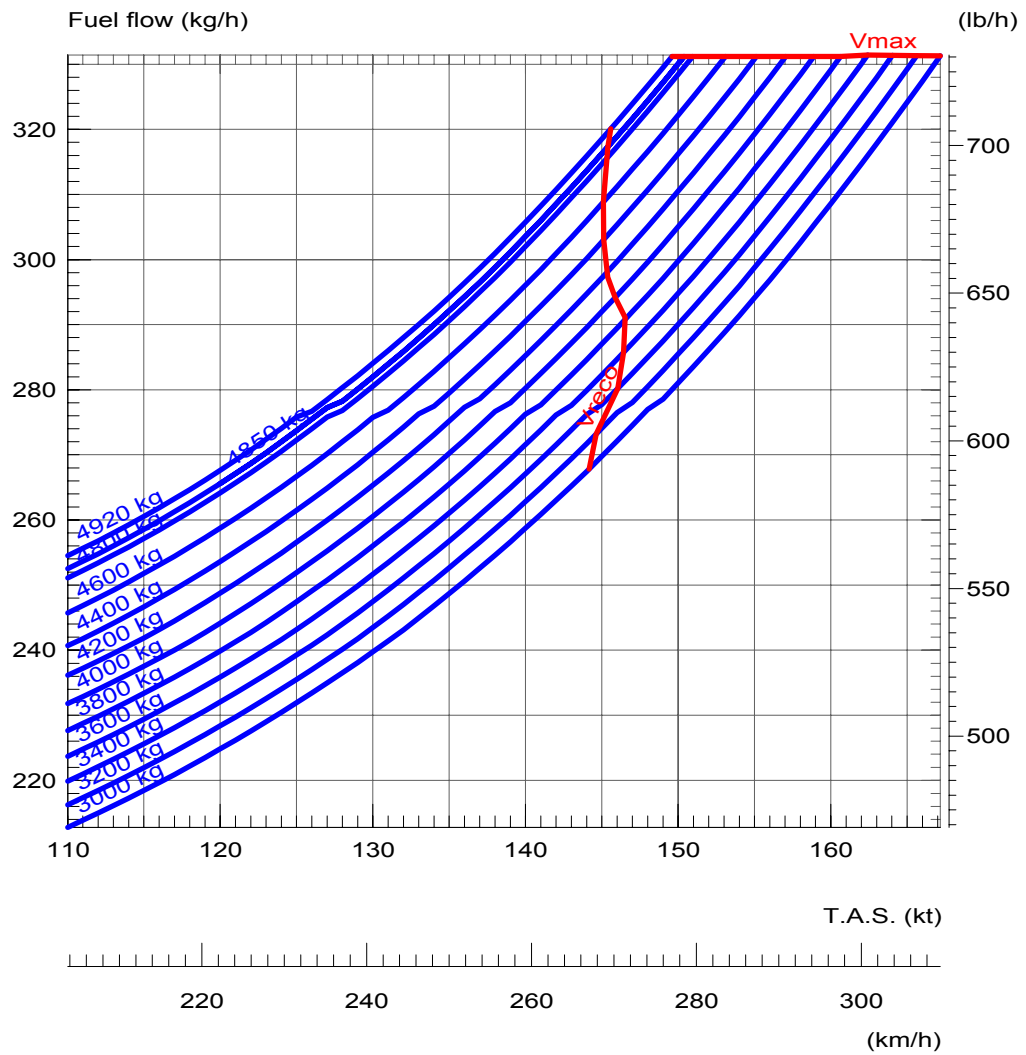
Pressure-altitude = 0 ft - ISA (Temperature = 15 °C)



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**HOURLY FUEL CONSUMPTION IN LEVEL FLIGHT**

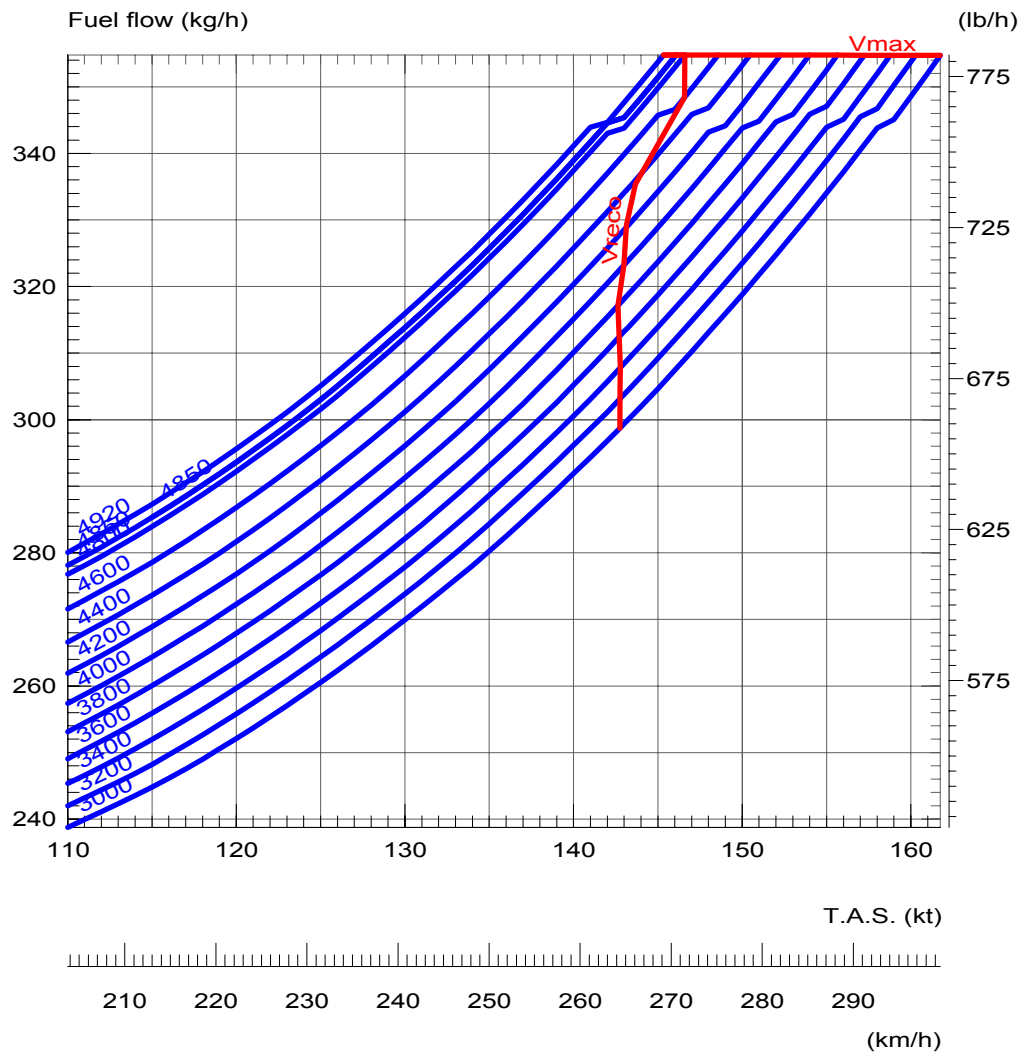
Pressure-altitude = 5000 ft - ISA (Temperature = 5 °C)



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**HOURLY FUEL CONSUMPTION IN LEVEL FLIGHT**

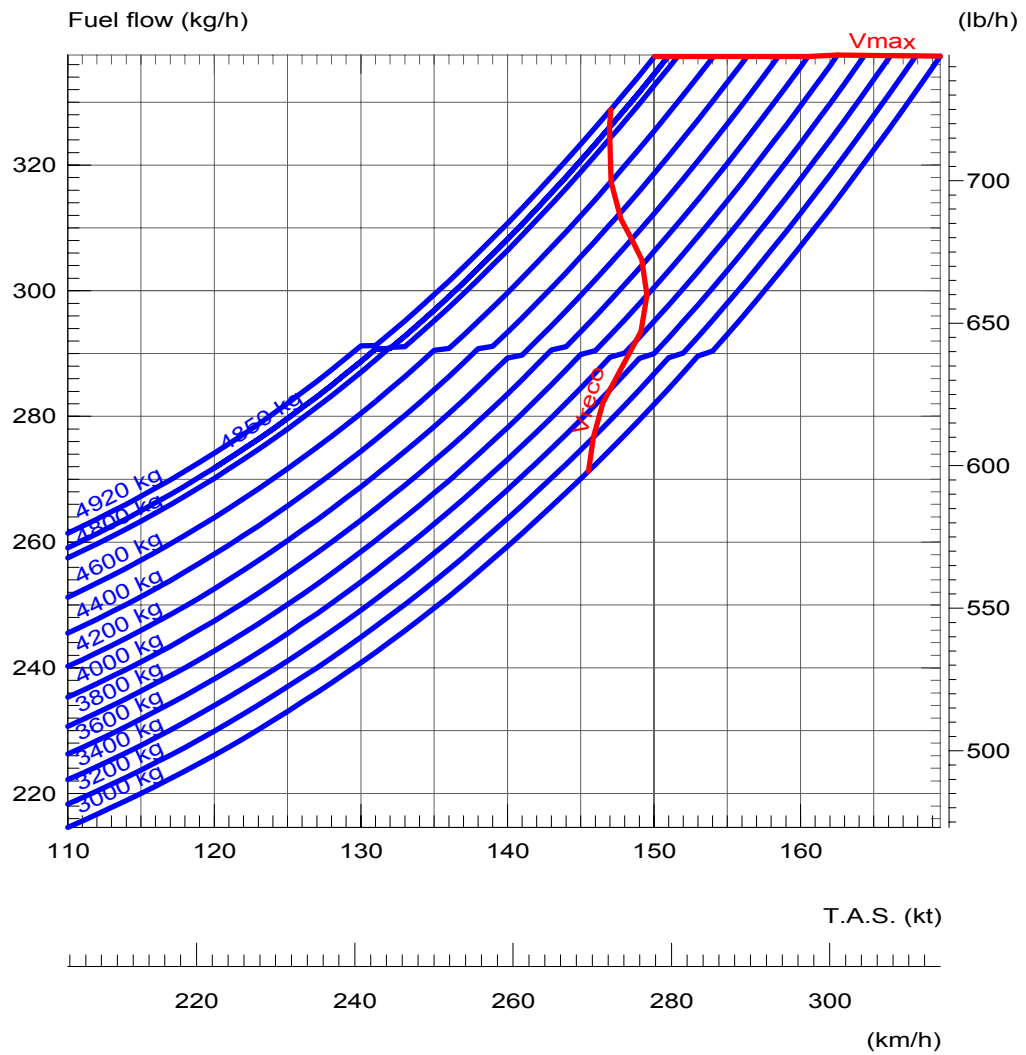
Pressure-altitude = 0 ft - ISA + 20 °C (Temperature = 35 °C)



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**HOURLY FUEL CONSUMPTION IN LEVEL FLIGHT**

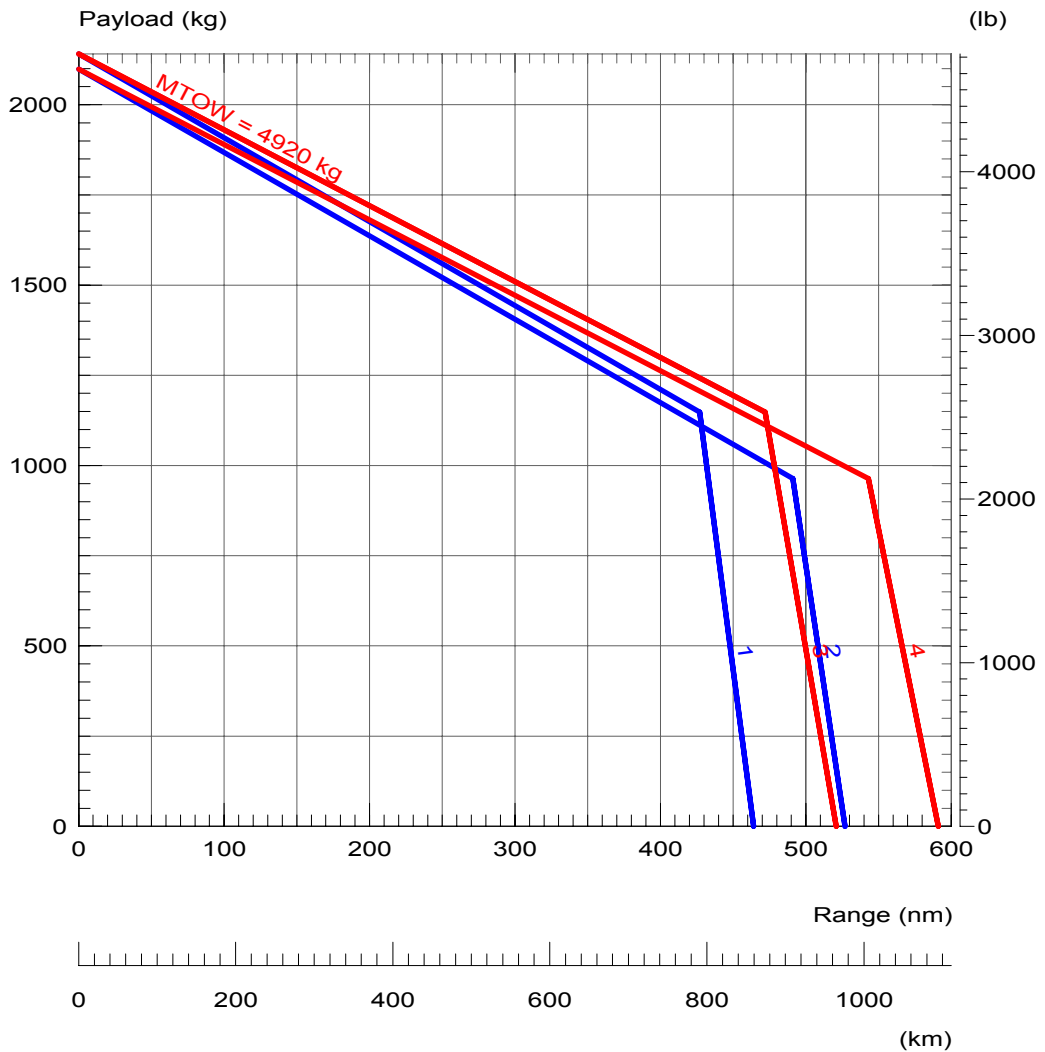
Pressure-altitude = 5000 ft - ISA + 20 °C (Temperature = 25 °C)



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**PAYLOAD / RANGE CHART**

Pressure-altitude = sea level / 5000 ft - ISA

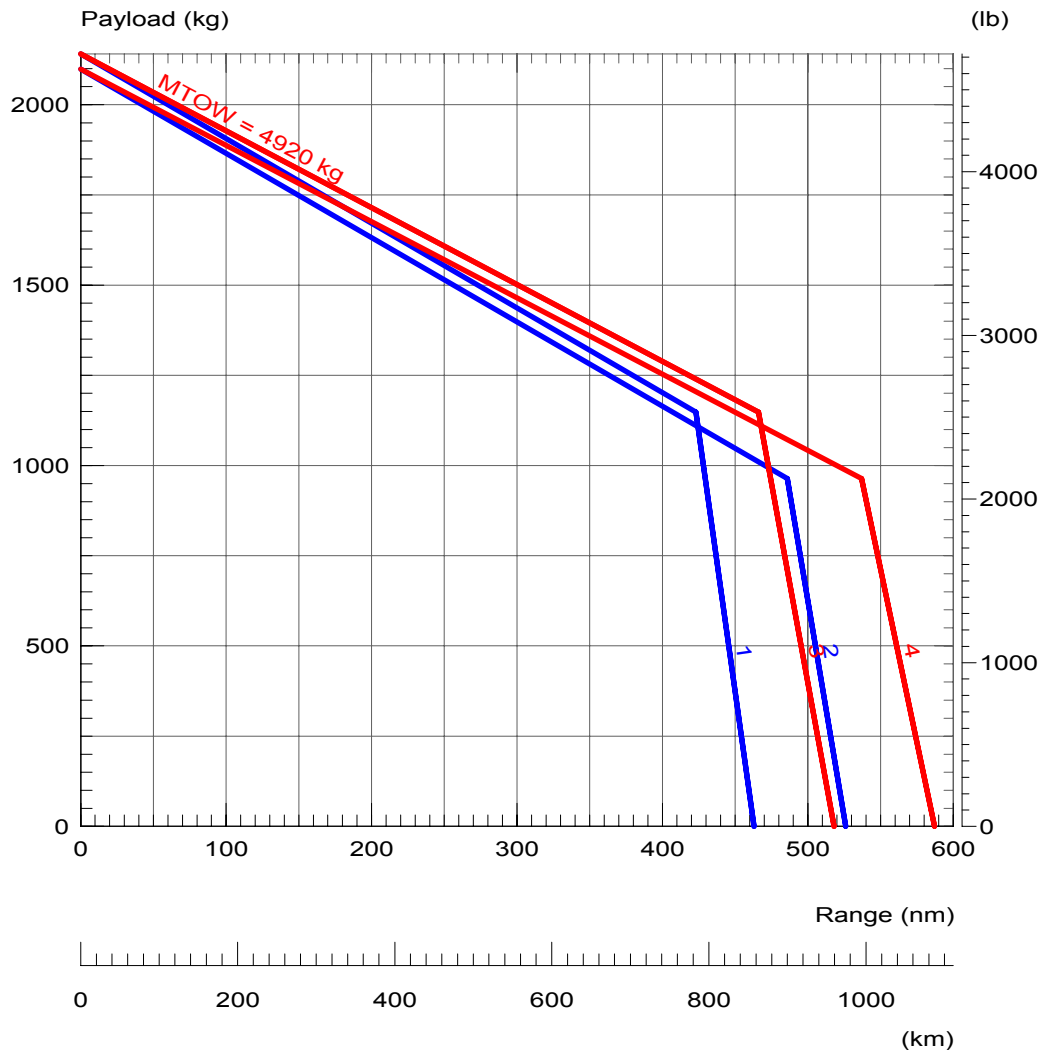


- Empty weight: 2,619 kg (1) / 2661.4 kg (2)
- Pilot + co-pilot: 2 x 80 kg
- Fuel tanks capacity:
  - 1 & 3: standard tanks 993 kg
  - 2 & 4: standard tanks + auxiliary tank in the hold 1135 kg
- Pressure altitude:
  - 1 & 2: sea level
  - 3 & 4: 5000 ft
- No reserve

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### PAYLOAD / RANGE CHART

Pressure-altitude = sea level / 5000 ft - ISA + 20 °C



- Empty weight: 2,619 kg (1) / 2661.4 kg (2)
- Pilot + co-pilot: 2 x 80 kg
- Fuel tanks capacity:
  - 1 & 3: standard tanks 993 kg
  - 2 & 4: standard tanks + auxiliary tank in the hold 1135 kg
- Pressure altitude:
  - 1 & 2: sea level
  - 3 & 4: 5000 ft
- No reserve

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