Contents

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 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.

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1- Foreword

*The EC 225 is a medium weight twin engine helicopter (11 tons class) with outstanding performance that belongs to the famous Super-Puma/Cougar family. Over **600 units**, with total flight **time in excess of 2,867,000 Flight Hours** have been delivered to date.*

*The EC 225 is a powerful and fast helicopter with long range capabilities. It has a very **large useful volume** and accommodates various seating arrangements up **to 24 passenger seats,** plus one **cabin attendant** in a spacious cabin and **2 crew members**.*
Technical advancements developed by EUROCOPTER on the EC 225 include modular design of the mechanical assemblies, use of composite materials, state of the art avionics, including LCD Multi-Functions Displays, Vehicle Monitoring System and AFCS.

*The EC 225 also incorporates the **new generation TURBOMECA Makila 2A** power plant that provides high performance and maximum safety, thanks to its fully **redundant dual channel FADEC** system **and blade shedding** technology.*

*The EC 225 can be equipped with **a full de-icing system** compliant with FAR/JAR 29 regulations, to **fly in icing conditions without limitation of severity**.*

2- General Characteristics

Lay-Out

- **Minimum flight crew**
  - **VFR conditions:** ■ 1 pilot
  - **IFR conditions :** ■ 2 pilots
- **VIP transport (in addition to the crew) :** ■ 8 to 12 passengers
- **Passenger transport (in addition to the crew) up to :** ■ 24 comfort seats + 1 cabin attendant

Weights

Note : Empty weight accuracy : within ± 2.0 %	kg	lb
■ **Empty weight, standard aircraft (including engine oil and unusable fuel)**	5,256	11,587
■ **Useful load**	5,744	12,663
■ **Maximum all-up weight**	11,000	24,251
■ **Maximum cargo-sling load**	5,000	11,020
■ **Maximum all-up weight in external load configuration**	11,200	24,690

Power plant

2 Turbomeca Makila 2A turboshaft engines.

Engine ratings

Power per engine, in standard atmosphere, at sea level :	kW	shp
■ **Maximum emergency power (OEI 30")**	1,798	2,411
■ **Intermediate emergency power (OEI 2')**	1,663	2,230
■ **OEI continuous power**	1,615	2,166
■ **Take-off power**	1,566	2,100
■ **Maximum continuous power**	1,397	1,873

Usable Fuel capacities

	litres	US gal.	kg	lb
■ **Standard crashworthy fuel tanks**	2,553	674	2,017	4,447
■ **Optional crashworthy fuel tanks**				
● Central crashworthy fuel tank	318	84	251	553
■ **Optional ferry** fuel tanks (1 to 5)	5 x 475	5 x 126	5 x 375	5 x 826

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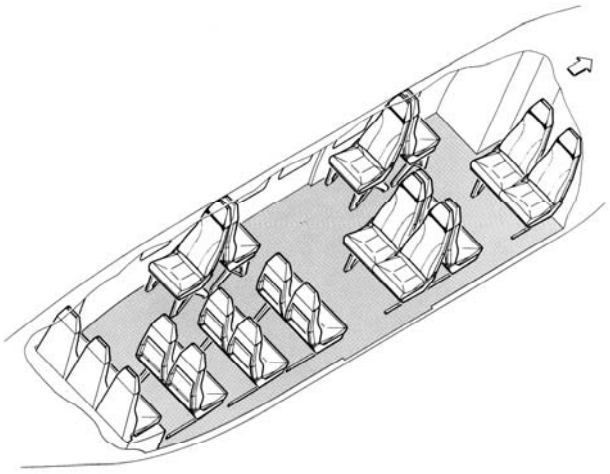
Configurations



1-Passengers transport

- **19 passengers**

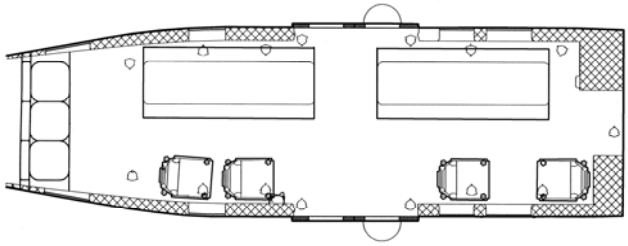
The seat backrests are fitted with a removable head-rest, a 3 point harness (4 points in option) and a net for life vest (under the seat).
19 “Energy Absorbing” seats fitted on a reinforced cabin floor can be also proposed as well as a high density 24 pax plus 1 cabin attendant installation.

The seats can be very quickly removed, so that a large area of the cabin floor can be used for load transportation. This enables to convert within few minutes any passenger transport helicopter into a cargo transport or into a composite version.

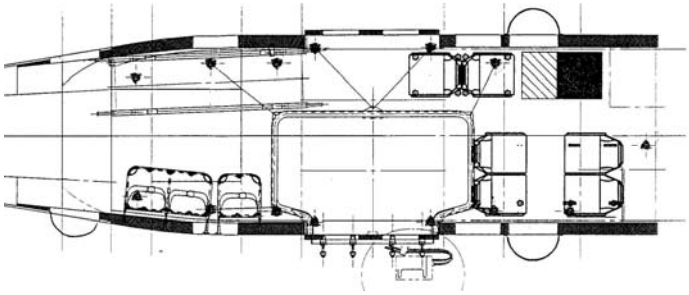
2-EMS

- **2 medical units and 4 seats**

This installation comprises 2 medical units of 3 stretchers each, which can be easily installed and removed on the EC 225 standard comfort seats rails.



Typical cabin arrangement, with 4 single comfort seats installed on the RH side



3-SAR

- **SAR cabin installation**

The large EC 225 cabin is perfectly suited to accommodate a comprehensive SAR cabin arrangement, including FLIR cabin console and operator seat, hoistman and cabin crew or rescues seats (up to 8) and 3 super imposed stretchers.

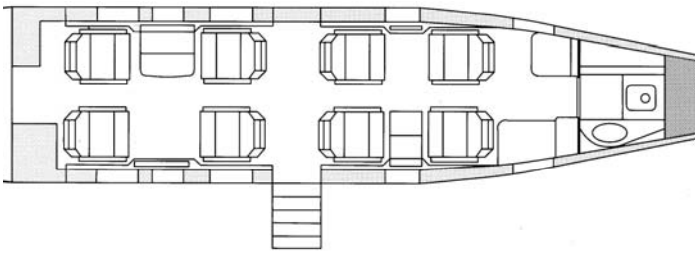
4-VIP 8 passengers

- **8 VIP and 1 cabin attendant installation**

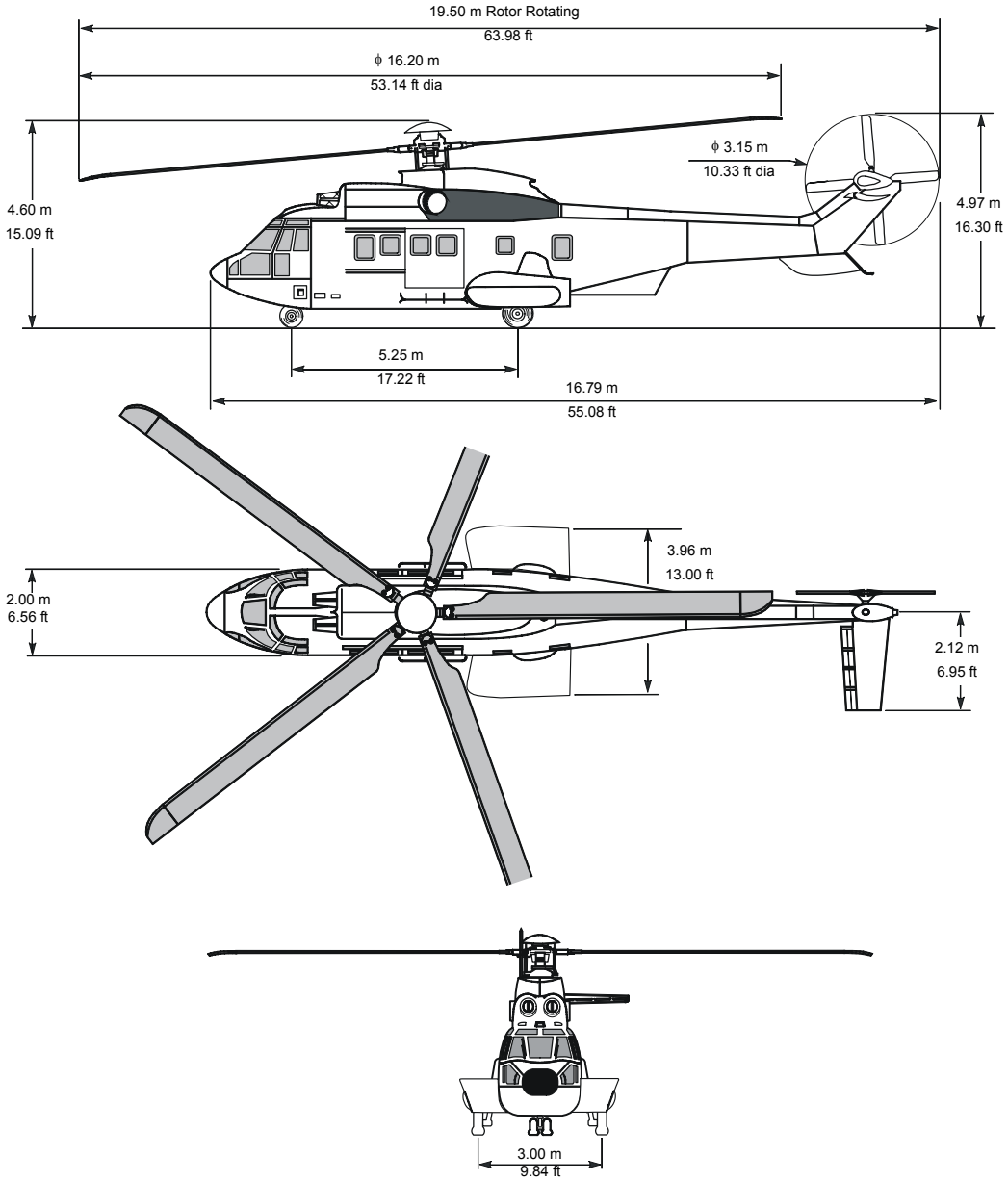
This VIP installation is divided into 2 compartments :

- 1 large VIP lounge for 8 passengers plus 1 cabin attendant,
- 1 toilet compartment.

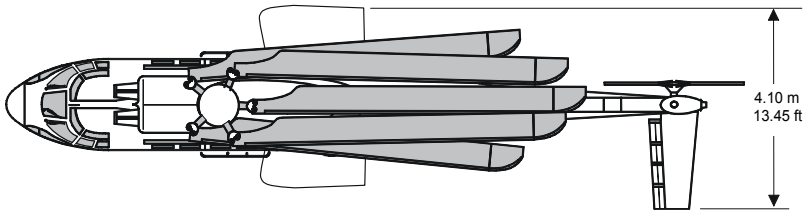
A 12-passenger version with 2 lounges, a front one with 4 armchairs, a rear one with 8 comfort seats and an attendant seat is also possible.



Main dimensions



Dimensions with blades folded



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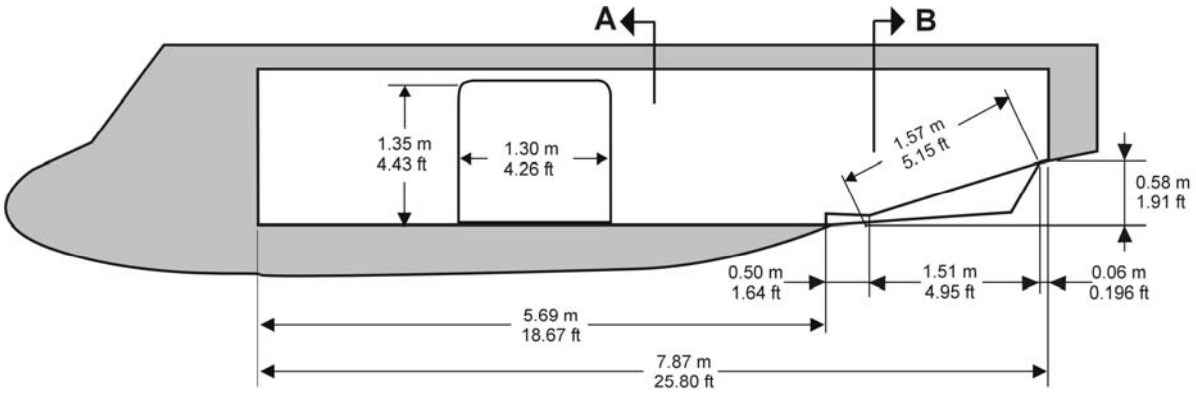
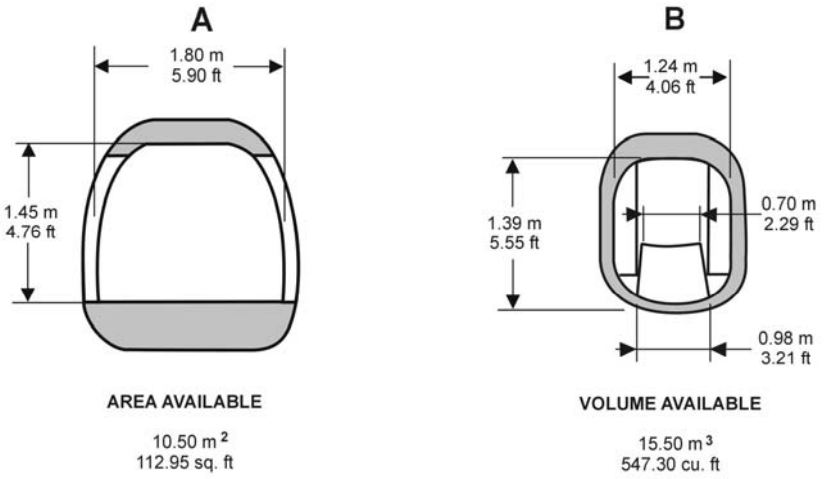
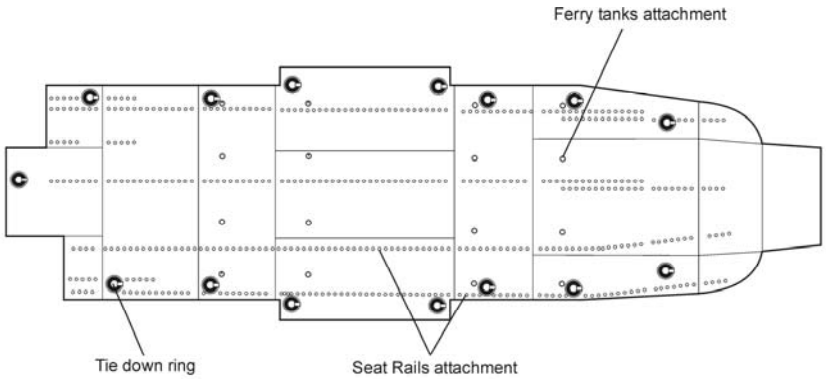
Dimensions of compartments and accesses

Cabin main dimensions





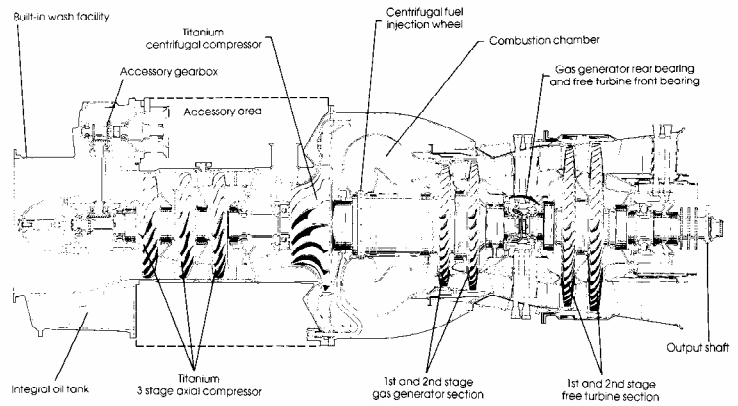
Cabin floor



Increased Power with modular design, for easier maintenance, blade shedding technology and 2 dual channel FADECs, for increased safety

Easy to maintain and repair

The Makila 2A is composed of 4 modules, independently interchangeable to reduced downtime.

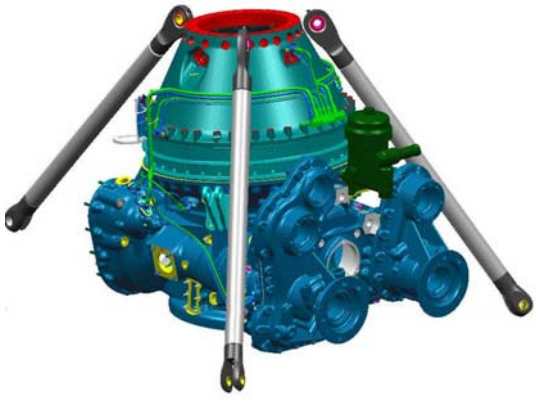


2 Dual channel FADECs
with fully automatic control

MGB torque limitations :

100% torque corresponds to 2610 kw at 265 rpm rotor speed

	kW	shp
■ **Super contingency power (OEI 30")** *1*	2,047	2,745
■ **Maximum contingency power (OEI 2')** *1*	1,877	2,517
■ **Intermediate contingency power (unlimited)** *1*	1,655 *2*	2,219
■ **Maximum continuous power (unlimited)**	2,159	2,895
■ **Take-off power (5')**	2,610	3,500
■ **Transient power (20")**	2,871	3,850



- **Increased power**
- **30 minutes** flight capability after total loss of oil, with **back-up lubrication**
- Spray system, compliant with **JAR 29**
- **Upgraded** upper part (casing and rotor bearing) and lower part (casing, gears)

1 Limitation controlled by the Fadec for NR>255 rpm.

2 The INT contingency power is 1593 kw at 255 rpm.

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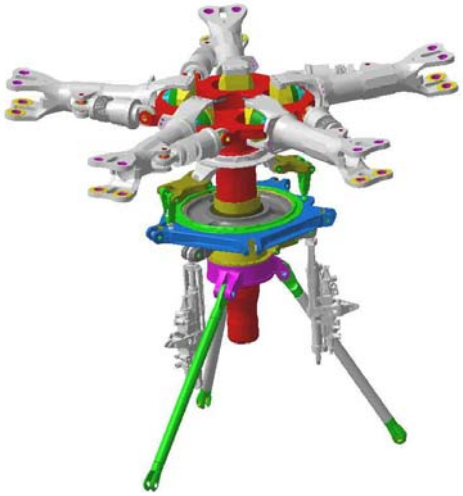
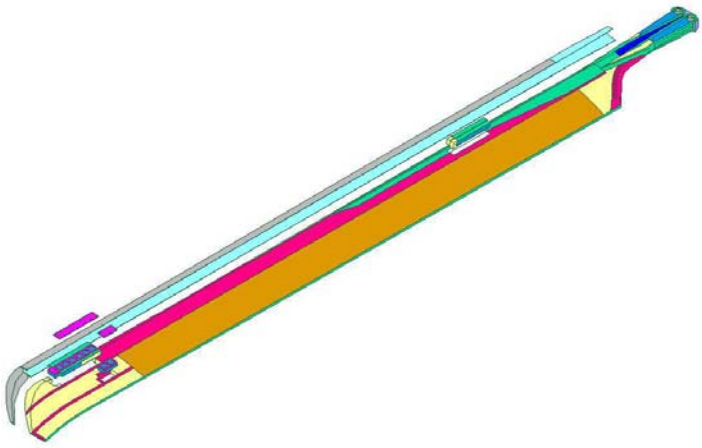
5 blades spheriflex *main rotor, with upgraded servo actuators …*

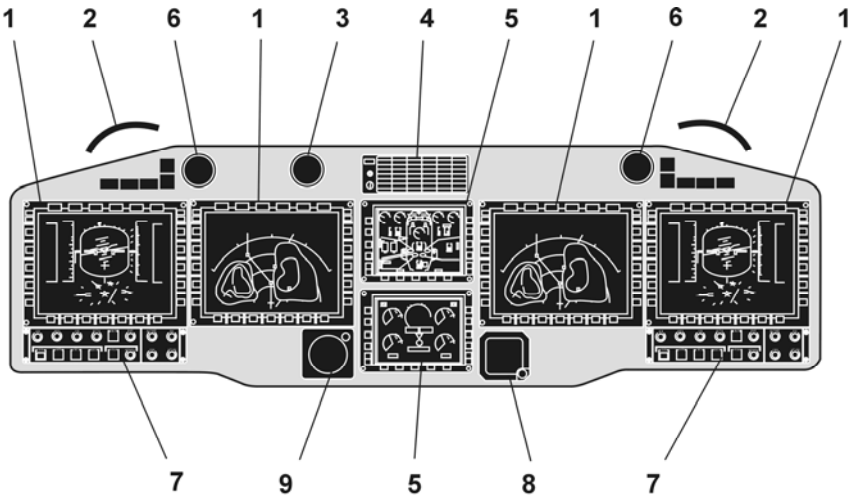




New blade profile, multibox structure, *capable of* ***flight in icing condition***

Advanced Helicopter Cockpit Avionics System (AHCAS), implementing :

- four 6'' x 8'' LCD Multi Function Displays (MFD)
- two 4'' x 5'' Vehicle Management System color displays (VMS)
- one Integrated Stand-by Instrument LCD (ISI)
- new Automatic Flight Control System (AFCS), Air Data Computer (ADC) and Attitude and Heading Reference System (AHRS)



1 Piloting, Navigation and Mission Multifunction displays
2 NR/ILS button indicator
Master warning light
General alarm
Landing gear warning light
3 Stop watch
4 Warning panel
5 VMS displays
6 Triple tachometer
7 Automatic Flight Control Panel (AFCP)
8 ISI (Integrated Stand-by Instrument)
9 Provision

3- EC 225 - Standard Aircraft Definition

GENERAL

- Crashworthy design fuselage including cockpit and cabin
- Composite material intermediate structure
- Polyurethane white paint anti-corrosion treatment
- Monocoque tail boom with tail rotor protection and stabilizer
- Front part of the tail boom arranged as a luggage compartment
- Fuselage upper part used as transmission deck
- Multipurpose sponsons with crashworthy self-sealing fuel tanks
- Fuselage lower part fittable with floatation gear
- Engine cowlings serving as a work platform when in the open position
- High energy absorption, retractable, tricycle landing gear with trailing-arm main landing gear and castering nose wheel unit
- Footsteps for climbing to the transmission deck, the cockpit and the cabin
- Built-in jacking and towing points
- Provisions for attaching gripping points
- Interior paint : light beige
- Exterior paint : the fuselage is painted following customer paint scheme (gloss or dull polyurethane finish) ; the landing gears are grey and unless otherwise specified, the optional equipments keep their original colors.

COCKPIT

- 2 pilot and copilot seats adjustable in height and fore-and-aft, complete with safety belts and extensible shoulder harnesses
- 3 sun vizors
- Dual flight control
- Steadying rods at pilot station
- Engine controls
- Master cut-off switches
- Rotor brake control
- Landing gear control
- Differential wheel brakes at pilot and copilot stations
- 2 map cases on pilot and copilot doors
- 1 Flight Manual
- 1 ash-tray
- 1 hand fire extinguisher
- De-iced pilot and copilot windshield panes with wiper
- 2 hot air diffusers
- 3 windshield pane demisting ramps
- 4 adjustable ventilation outlets
- Windshield washer
- 2 jettisonable doors with door-stops
- Access to cabin with partitioning curtain

INSTRUMENTS

- 4 multifunction 6" x 8" landscape LCD displays
- 2 display and autopilot control panels
- 1 Integrated Standby Instrument (ISI) for airspeed, altimeter and gyro-horizon back-up display
- 1 redundant Vehicle Monitoring System (VMS) with one redundant Aircraft Management Computer (AMC) and two 4" x 5" LCD displays
- 1 stop watch
- 2 triple tachometers
- 1 warning panel
- 1 fuel circuit control and monitoring panel with 2 fuel content displays
- 1 AC/DC control box
- 1 engine starting panel
- 1 landing gear position control and monitoring panel
- 2 heated pitot static and total heads
- 1 ventilation/heating system control

CABIN

- Floor fitted with 15 cargo tie-down rings, capable of accommodating various types of seat and cabin additional fuel tanks available on option
- 2 jettisonable sliding plug doors
- 12 jettisonable windows (including 4 on the sliding doors)
- 1 rear step door
- 1 hand fire-extinguisher
- Upholstery (light beige padded cloth)
- Heating and ventilation (upper outlets adjustable for direction and flow, plus bottom adjustable for flow)

POWER PLANT

- 2 Turbomeca Makila 2A 1800 kW (2448 ch - 2413 shp) maximum emergency power blade shedding turbines engines in two separate groups with own starting, feeding, lubricating, and cooling systems
- 2 redundant full digital FADEC including a O.E.I. training mode
- 1 fuel system of 2,549 litres (673 US gal.) usable capacity comprising 8 crashworthy tanks, arranged in 2 groups, 4 booster pumps, 1 transfer pump and a low/high fuel warning system. The pipes are of the crashworthy type
- Provisions for ferrying and central auxiliary tanks
- 2 engine bay fire-detection systems
- 1 two-cylinder selective fire-extinguishing system
- 2 chip detectors
- Engine air intakes protected against icing by grids and heating mats on the air intakes stub frames
- 1 engine flushing device without removal of cowlings
- 1 cycle counting system

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TRANSMISSION SYSTEM

- 1 main gearbox on flexible mountings with 3 chip detectors one of which with fuzz burner, oil sight gauge, oil temperature and pressure sensors and torquemeter pick-ups, 2 lubrication pumps and independant circuits
- 1 intermediate gearbox with magnetic plug, oil sight gauge and temperature sensor
- 1 tail gearbox with magnetic plug, oil sight gauge and temperature sensor
- 1 main gearbox oil cooling system
- 1 MGB total loss of oil spray device
- 1 rotor brake
- 2 MGB bay fire detection circuits
- MGB max oil temperature warning
- MGB min oil pressure warning
- TGB max oil temperature warning

ROTOR AND FLYING CONTROLS

- 1 articulated main rotor with 5 composite-material blades equipped with gust and droop stops
- 1 anti-torque rotor with 4 composite-material blades
- 1 flying control system, fitted with 4 dual-body servo-units (3 on the cyclic and collective pitch channels and 1 on the anti-torque rotor pitch control channel) with 2 chambers per body
- Capability for main rotor blade folding system
- 1 dual/duplex digital autopilot associated with 2 flight data computers and back-up capabilities
- 1 THALES AHV 16 radio altimeter displayed on multifunction LCDs

ELECTRICAL INSTALLATION

- Two 20/30 kVA, 115/200 V, 400 Hz alternators
- One 43 amp.-hr cadmium-nickel battery
- 2 transformer-rectifiers
- One 4 amp.-hr stand-by battery
- One 26 V, 400Hz transformer
- 1 cockpit lighting system including :
  - green pedestal instrument and overhead panel integrated lighting
  - white general lighting
  - 1 white extension light
  - 2 white map lights
- 1 cabin lighting system made up of two-lighting strips, plus signs : "Emergency Exit", "No smoking" and "Fasten Seat Belts"
- 6 receptacles for ancilliaries (28 V, 15 amp.)
- 1 receptacle for ancilliaries (28 V, 25 amp.)
- 2 external power receptacles (AC and DC)
- One 600 W landing light
- 3 position lights
- 1 anti-collision light

HYDRAULIC GENERATION

- 2 independent hydraulic systems :
  - the LH system feeds one of the servo-unit bodies, the autopilot, the landing gear control, the rotor brake and wheel brakes
  - the RH system feeds the other body of the servo-units
- Hydraulic ground couplings
- 1 DC auxiliary electropump on stand-by for the LH system and for supplying sufficient hydraulic pressure for movement of the controls on the ground before starting in high winds
- 1 stand-by electropump for complete lowering of the landing gear
- Provisions for hydro-electric group installation

AIRBORNE KIT (*)

- 2 pitot head covers
- 1 engine air-intake grid protection cover
- 2 engine tail-pipe blanks
- 4 mooring rings
- 2 rough-weather mooring fittings (included on the aircraft)
- 1 access ladder
- 1 data case
- 3 jacking ball-joints
- Main blade tie-down
- Fuel bleed line
- 1 stowing bag for the airborne kit

(*) (weight not included in standard aircraft empty weight)

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4- Optional equipment

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

Document reference	Commercial reference	Name	kg	lb
General equipment				
05-01011-A	**05-01011-00-CI**	North Sea Offshore kit *1*	**9.4**	**20.7**
05-03006-A	**05-03006-00-CI**	First aid kit	**0.5**	**1.1**
05-21011-A	**05-21011-00-CI**	Wire strike protection system	**12.9**	**28.4**
05-22001-A	**05-22001-00-CI**	Multipurpose engine air intakes *2* (anti-sand and anti-ice filters)	**72.9**	**160.7**
05-25014-A	**05-25014-00-CI**	Main rotor blades re-inforced sand erosion protection strip (loose equipment delivered separately)	**0.3**	**0.7**
05-25015-A	**05-25015-00-CI**	Tail rotor blades re-inforced sand erosion protection strip (loose equipment delivered separately)	**0.1**	**0.2**
05-26007-A	**05-26007-00-CI**	Dinol AV30 re-inforced anti-corrosive treatment	**12.0**	**26.5**
05-31011-A	**05-31011-00-CI**	Cockpit green tinted panes (all except standard colourless panes in front of the pilot and copilot)	**0.0**	**0.0**
05-31012-A	**05-31012-00-CI**	Cockpit green tinted upper panes	**0.0**	**0.0**
05-31013-A	**05-31013-00-CI**	Cabin green tinted windows	**2.5**	**5.5**
05-31015-A	**05-31015-00-CI**	Cabin metallized windows	**6.2**	**13.7**
05-31035-A	**05-31035-00-CI**	Enlarged cabin windows	**15.0**	**33.1**
05-31035-A	**05-31035-01-CI**	Enlarged cabin metallized windows	**22.2**	**48.9**
05-31039-A	**05-31039-00-CI**	2 observation bubble windows on cabin plug-in doors	**1.0**	**2.2**
05-35001-A	**05-35001-00-CI**	Cabin floor 1500 kg/m²	**38.5**	**84.9**
05-39005-A	**05-39005-00-CI**	Map holder on the instrument panel glareshield	**1.0**	**2.2**
05-42021-A	**05-42021-00-CI**	Cockpit and cabin air conditioning system *3*	**125.0**	**275.6**
05-50001-A	**05-50001-00-CI**	Installation for flight in icing conditions *4*	**187.0**	**369.3**
05-50002-A	**05-50002-00-CI**	Installation for flight in extreme cold weather	**56.1**	**123.7**
05-51001-A	**05-51001-00-CI**	De-iced cockpit center pane with wiper	**3.0**	**6.6**

1 This kit requires mandatory fitment of : hydro electric group, de-iced cockpit center pane with wiper, AVAD, M'ARMS and emergency evacuation lighting.

2 Mounted in production-line instead of the standard air intakes.

3 Requires the installation of the 30/40 kVA alternators.

4 Requires the multipurpose engine air intakes, the de-iced cockpit center pane with wiper, the icing severity indicator, the 30/40 kVA alternators and the weather radar. Not compatible with life raft installation (06-62…).

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Document reference	Commercial reference	Name	kg	lb
General equipment (continued)				
05-52006-A	**05-52006-00-CI**	Icing severity indicator (Rosemount)	**3.0**	**6.6**
05-62007-A	**05-62007-00-CI**	Two 30/40 kVA alternators *1*	**7.4**	**16.3**
05-64000-A	**05-64000-00-CI**	Auxiliary Power Unit	**105.0**	**231.0**
05-65000-A	**05-65000-00-CI**	Hydro electric group	**17.0**	**37.5**
05-81007-A	**05-81007-00-CI**	Crashworthy central auxiliary fuel tank 318 l (84 US gal)	**27.2**	**60.0**
05-82005-A	**05-82005-00-CI**	Pressure refuelling usable on the ground with crashworthy self-sealing sponson fuel tanks	**18.1**	**39.9**
05-84008-A	**05-84008-00-RP**	One ferrying fuel tank 475 l (126 US gal.) 1 to 4 tanks per helicopter	**22.8**	**50.3**
05-84009-A	**05-84009-00-CI**	5th ferrying fuel tank 475 l (126 US gal)	**35.5**	**78.3**
05-92014-A	**05-92014-00-CI**	Main rotor blades folding system	**60.0**	**132.3**
05-93004-A	**05-93004-00-CI**	Naval mooring	**3.7**	**8.2**
05-93006-A	**05-93006-00-CI**	Lashing rings for main landing gear	**1.0**	**2.2**
Specific mission equipment				
06-21015-A	**06-21015-00-FP**	Goodrich 28V electrical hoist (290ft, 600lb) – Fixed Parts *2*	**8.0**	**17.6**
	06-21015-00-RP	Goodrich 28V electrical hoist (290ft, 600lb) – Removable Parts	**50.0**	**110.2**
06-22002-A	**06-22002-00-CI**	Hydraulic back-up hoist	**on request**	**on request**
06-25004-A	**06-25004-00-CI**	Drip tub	**7.0**	**15.4**
06-26006-A	**06-26006-00-CI**	External mirrors (recommended with slings)	**6.5**	**14.3**
06-27013-A	**06-27013-00-FP**	Cargo sling with dynamometer 3.8 tons – Fixed Parts *3 4*	**10.2**	**22.5**
	06-27013-00-RP	Cargo sling with dynamometer 3.8 tons – Removable Parts	**27.7**	**61.1**

1 Instead of the 20/30 kVA standard one's.

2 Implies the fitting of the 4th control box of ICS (see 08-16024).

3 The 3.8 metric ton cargo sling fixed parts include:
- The whole 5 metric ton cargo sling fixed parts
- 1 supplement for 3.8 metric ton cargo sling specific fixed parts

The customer choosing the 3.8 metric ton cargo sling has automatically the 5 metric ton cargo sling fixed parts and if he wants the 5 metric ton cargo sling in addittion, he only has to purchase the 5 metric ton cargo sling removable parts.

4 Compatible with the central fuel tank (see 05-81007).

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Document reference	Commercial reference	Name	Kg	lb
		Specific mission equipment (continued)		
06-27014-A	06-27014-00-FP	Cargo sling with dynamometer 5 tons – Fixed Parts *1*	4.4	9.7
	06-27014-00-RP	Cargo sling with dynamometer 5 tons – Removable Parts	28.2	62.2
06-31010-A	06-31010-00-CI	Hailer installation (qty 1)	41.0	90.4
06-41003-A	06-41003-00-CI	Hella anti collision strobe light system (instead of standard one)	6.5	14.3
06-41004-A	06-41004-00-CI	Soderberg anti collision light (belly mounted)	1.0	2.2
06-42011-A	06-42011-00-CI	Second landing light	5.0	11.0
06-42012-A	06-42012-00-CI	Fixed lights in the sponsons	3.5	7.7
06-43005-A	06-43005-00-CI	Vertical light for hoisting and sling operation surveillance	6.7	14.8
06-45017-A	06-45017-00-FP	Search-light Spectrolab SX-16 – Fixed Parts	4.9	10.8
	06-45017-00-RP	Search-light Spectrolab SX-16 – Removable Parts	24.0	52.9
06-61010-A	06-61010-00-FP	Emergency floatation gear – Fixed Parts *2*	23.1	50.9
	06-61010-00-RP	Emergency floatation gear – Removable Parts	149.4	329.4
06-61011-A	06-61011-00-FP	Emergency floatation gear with automatic firing – Fixed Parts *2*	on request	on request
	06-61011-00-RP	Emergency floatation gear with automatic firing – Removable Parts	on request	on request
06-62005-A	06-62005-00-CI	2 Life rafts – 18 to 27 pax in the multipurpose sponsons with jettison control in cockpit	137.1	302.3
06-64002-A	06-64002-00-CI	Sea anchor	2.9	6.4
06-66004-A	06-66004-00-CI	Helicopter Emergency Egress Lighting (H.E.E.L)	5.3	11.7
06-67014-A	06-67014-00-CI	Serpe-IESM Kannad 406 AF Emergency Locator Transmitter *3*	2.1	4.6
06-69002-A	06-69002-00-CI	Racal V 694 Automatic Voice Alarm Device (AVAD)	1.3	2.9
		Flir installation *4*	on request	on request
		Cabin console for Flir installation	on request	on request

1 Requires removal of the central auxiliary fuel tank if it has been selected by the user.
2 The sealing cowling in case of non-use of the floatation gear is supplied.
3 Acceptance by local Airworthiness authorities to be checked.
4 This equipment can be submitted to Export Licence.

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Document reference	Commercial reference	Name	kg	lb
Interior Layout				
07-10007-A	07-10007-00-CI	Pilot and copilot Airline seats comfort type	12.4	27.3
07-10008-A	07-10008-00-CI	Pilot and copilot Airline seats leader type	18.2	40.1
07-10009-A	07-10009-00-FP	3rd crew man seat – Fixed Parts	0.2	0.4
	07-10009-00-RP	3rd crew man seat – Removable Parts	6.2	13.7
07-25005-A	07-25005-00-CI	19 staggered seats installation 1	151.7	334.4
07-25021-A	07-25021-00-CI	19 comfort seat installation 1	162.5	352.2
07-25027-A	07-25027-00-CI	24 comfort seat installation + 1 attendant seat 1	220.1	485.2
07-27002-A	07-27002-00-CI	19 staggered “Energy Absorbing” seat installation 1 2	215.0	474.0
07-30008-A	07-30008-00-CI	De luxe upholstery with enhanced sound proofing 3	365.0	804.7
07-30010-A	07-30010-00-CI	Comfort upholstery with improved sound-proofing	78.0	172.0
07-50014-A	07-50014-00-CI	Special RH double door 3	7.0	15.4
07-50017-A	07-50017-00-CI	Special LH door with built-in steps 3	15.0	33.1
07-60007-A	07-60007-00-CI	Luggage compartment in the intermediate structure	42.4	93.5
07-70002-A	07-70002-00-CI	Self Contained Medical Unit	243.0	535.8
07-70003-A	07-70003-00-CI	Air Ambulance Technology EMS quick conversion kit (2 units of 3 stretchers each) 4	197.0	434.4
07-74008-A	07-74008-00-CI	TRS 902 Transaco stretcher	10.0	22.0
07-80014-A	07-80014-00-CI	8 + 1 seat VIP installation	650.0	1433.3
07-80015-A	07-80015-00-CI	12 + 1 seat VIP installation	554.0	1221.6
07-82001-A	07-82001-00-CI	Retractable armrests 3	on request	on request
07-82002-A	07-82002-00-CI	Lombar adjustment 3	on request	on request
07-83002-A	07-83002-00-CI	Electric curtains 3	on request	on request
07-84001-A	07-84001-00-CI	Customized inlaid wood table 3	on request	on request
07-85001-A	07-85001-00-CI	Transparent central partition with storage compartment 3	on request	on request
07-91002-A	07-91002-00-CI	Gold metallic finishing 3	on request	on request
08-17034-A	08-17034-00-CI	CD player 3	on request	on request
08-17035-A	08-17035-00-CI	DVD player 3	on request	on request

1 This installation requires the fitting of the Luggage compartment (07-60007).
2 The optional is indissociable of the optional 05-35001. Possible reconfiguration to classical seating.
3 These optionals are indissociable of the optionals 07-80014 or 07-80015.
4 Requires civil type seat rail (07-25005 or 07-25021 or 07-25027) and cabin floor 1500 kg/m² (05-35001). Fitted on double seat rails (RH side)

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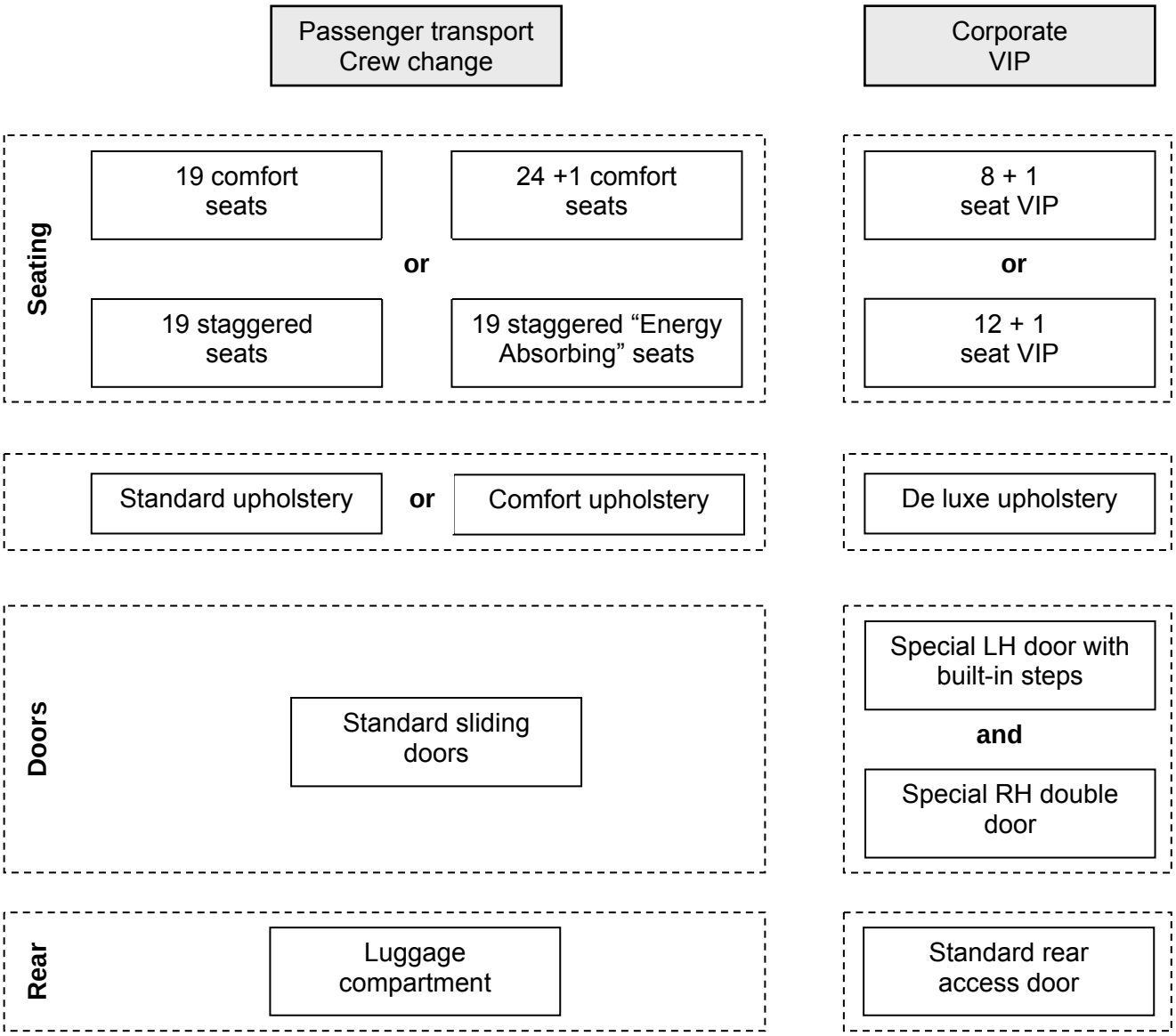
Various Possibilities of the EC225 Cabin Installation



Document reference	Commercial reference	Name	kg	lb
Avionics				
08-00016-A	**08-00016-00-CI**	Civil Uses minimum equipment (IFR dual pilot) composed of: Collins - VHF422A # 1 Collins - VHF422A # 2 Team TB 45 ICS, with 3 CP 2618 control panels Collins - TDR94 - Transponder with flight identification Collins - ADF 462 - ADF # 1 Collins - DME 442 - DME Collins - VIR 432 - VOR/ILS/MKR # 1 Collins - VIR 432 - VOR/ILS/MKR # 2	**67.3**	**148.4**
08-10010-A	**08-10010-00-CI**	Collins - HF9X00 HF/SSB	**23.5**	**50.9**
08-16024-A	**08-16024-00-CI**	Team ICS - Complementary set : 4th control panel CP 1976	**3.1**	**6.8**
08-17003-A	**08-17003-00-CI**	Baker - M1060 - Passenger Address	**25.0**	**55.1**
08-17013-A	**08-17013-00-CI**	Team - BA1920 - Passenger Interphone	**1.6**	**3.5**
08-18006-A	**08-18006-00-CI**	Optique Scientifique - FPH 600 helmet	**1.3**	**2.9**
08-18007-A	**08-18007-00-CI**	Silec 4452 headset	**0.5**	**1.1**
08-18009-A	**08-18009-00-CI**	Silec 4449-1 headset	**0.5**	**1.1**
08-19006-A	**08-19006-00-CI**	Collins - RTU4210 - Radio Management System	**14.0**	**30.9**
08-21006-A	**08-21006-00-CI**	Thales - AHV16 - 2nd Radio altimeter	**6.6**	**14.6**
08-24005-A	**08-24005-01-CI**	Collins - ADF 462 - ADF # 2	**5.9**	**13.0**
08-27008-A	**08-27008-00-CI**	Chelton System 7 - (121,5) VHF/AM dual frequency homer	**5.4**	**11.9**
08-27022-A	**08-27022-00-CI**	Chelton DF931 - V/UHF DF	**8.0**	**17.6**
08-31003-A	**08-31003-00-CI**	Telephonics RDR 1400 C weather radar, displayed on AHCAS	**18.9**	**41.7**
08-35009-A	**08-35009-01-CI**	TCAS - Goodrich - Skywatch HP 899 integrated to AHCAS	**5.5**	**12.1**
08-35015-A	**08-35015-00-CI**	EGPWS - Honeywell - MKXXII integrated to AHCAS	**8.5**	**18.7**
08-41004-A	**08-41004-00-CI**	Canadian Marconi - CMA3012 - GPS receiver	**4.9**	**10.8**
08-43007-A	**08-43007-00-CI**	Freeflight - “TNL 2101 approach+”, GPS Navigation Computer with antenna linked to AHCAS ***1***	**3.3**	**7.3**
08-44014-A	**08-44014-00-CI**	Canadian Marconi - CMA3000 - Flight Management System ***2***	**9.1**	**20.1**
08-44027-A	**08-44027-00-CI**	Canadian Marconi - CMA3000 - Flight Management System with SAR modes ***2***	**33.0**	**72.8**

1 Delivered with Europe map. Subscription to be made by the customer.

2 Requires equipment 08-41004 (Canadian Marconi CMA3012 GPS receiver).

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Document reference	Commercial reference	Name	kg	lb
Avionics (continued)				
08-47008-A	**08-47008-00-CI**	Marconi - ANV 353 - Doppler radar	**11.5**	**25.4**
08-74007-A	**08-74007-00-CI**	Automatic transition and hover modes	**3.7**	**8.2**
08-81007-A	**08-81007-00-CI**	CV/FDR Allied Signal + MFDAU - Crash recorder *1*	**35.0**	**77.2**
08-83004-A	**08-83004-00-CI**	M'ARMS Usage Monitoring System (UMS) with Allied Combi-lite CVFDR *1 2 3*	**42.0**	**92.6**
08-83007-A	**08-83007-00-CI**	HOMP *4*	**0.0**	**0.0**

1 Compatible with JAR OPS-3 regulation.
2 Requires at least one ground station per helicopter base.
3 The toolings of the installation are not included.
4 Requires M'ARMS (08-83004).

Validity of avionics equipment

***B**: basic minimum list*

***O:** optional equipment that can be added*

***R:** minimum recommended list*

***N/A:** not applicable*

Document reference	**Commercial reference**	Name	**Civil uses list**	**Search & rescue list**
08-00016-A	**08-00016-00-CI**	Civil uses minimum equipment (IFR dual pilot)	**B**	**B**
08-10010-A	**08-10010-00-CI**	Collins - HF9X00 HF/SSB	**O**	**O**
08-16024-A	**08-16024-00-CI**	Team ICS - Complementary set : 4th control panel CP 1976	**O**	**R**
08-17003-A	**08-17003-00-CI**	Baker - M1060 - Passenger Address	**O**	**O**
08-17013-A	**08-17013-00-CI**	Team - BA1920 - Passenger Interphone	**O**	**O**
08-18006-A	**08-18006-00-CI**	Optique Scientifique – FPH 600 Helmet	**O**	**O**
08-18007-A	**08-18007-00-CI**	Silec 4452 headset	**O**	**O**
08-18009-A	**08-18009-00-CI**	Silec 4449-1 headset	**O**	**O**
08-19006-A	**08-19006-00-CI**	Collins - RTU4210 - Radio Management System	**O**	**O**
08-21006-A	**08-21006-00-CI**	Thales - AHV16 - 2nd Radio altimeter	**O**	**R**
08-24005-A	**08-24005-01-CI**	Collins - ADF 462 - ADF # 2	**O**	**O**
08-27008-A	**08-27008-00-CI**	Chelton System 7 - (121,5) VHF/AM dual frequency homer	**O**	**O**
08-27022-A	**08-27022-00-CI**	Chelton DF931 – V/UHF DF	**O**	**O**
08-31003-A	**08-31003-00-CI**	Telephonics RDR 1400 C weather radar, displayed on AHCAS	**O**	**R**
08-35009-A	**08-35009-01-CI**	TCAS - Goodrich - Skywatch HP 899 integrated to AHCAS	**O**	**O**
08-35015-A	**08-35015-00-CI**	EGPWS - Honeywell - MKXXII integrated to AHCAS	**O**	**O**
08-41004-A	**08-41004-00-CI**	Canadian Marconi CMA3012 GPS receiver	**O**	**R**
08-43007-A	**08-43007-00-CI**	Freeflight - “TNL 2101 approach+” ,GPS Navigation Computer with antenna linked to AHCAS	**O**	**N/A**
08-44014-A	**08-44014-00-CI**	Canadian Marconi - CMA3000 - Flight Management System	**O**	**N/A**
08-44027-A	**08-44027-00-CI**	Canadian Marconi - CMA3000 - Flight Management System with SAR modes	**N/A**	**R (non divisible)**
08-47008-A	**08-47008-00-CI**	Marconi - ANV 353 - Doppler radar	**N/A**	
08-74007-A	**08-74007-00-CI**	Automatic transition and hover modes	**N/A**	
08-81007-A	**08-81007-00-CI**	CV/FDR Allied Signal + MFDAU - Crash recorder	**O**	**O**
08-83004-A	**08-83004-00-CI**	M'ARMS Usage Monitoring System (UMS) with Allied Combi-lite CVFDR	**O**	**O**
08-83007-A	**08-83007-00-CI**	HOMP	**O**	**O**

5- Equipment compatibility

- ■ 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

Note: This table indicates the compatibility restrictions existing between the installations. The consultation of EUROCOPTER is necessary for the definitive equipment compatibility clearance of a configuration.

Reference Optional	Installation	Nature of the incompatibility		
		■	▲	●
	General items of equipment			
05-81007-A	Crashworthy central auxiliary fuel tank 318 l (84 US gal)		06-27014	
05-64000-A	Auxiliary power unit	05-65000		
05-65000-A	Hydro electric group	05-64000		
05-8400x-A	Ferrying fuel tanks		All interior arrangements	
	Specific mission equipment			
06-21015-A	Goodrich 28V electrical hoist (290 ft, 600 lb)			06-27013 06-27014
06-22002-A	Hydraulic back-up hoist			06-27013 06-27014
06-27013-A	Cargo sling with dynamometer 3,8 tons		06-27014	06-21015
06-27014-A	Cargo sling with dynamometer 5 tons		05-81007 06-27013 All interior arrangements	06-21015
07-80014-A	8 + 1 seat VIP installation	05-31035		
07-80015-A	12 + 1 seat VIP installation	05-31035		

6- Main performance

The following performance values and figures refer to an **EC 225**, 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 lb	9,000 19,842	9,500 20,944	10,000 22,047	10,500 23,149	11,000 24,251
■ Maximum speed, VNE	km/h kts	324 175	324 175	324 175	324 175	324 175
■ Maximum cruising speed (at MCP)	km/h kts	275,5 148,5	273,0 147,5	270,0 145,5	266,0 143,5	261,5 141,0
■ Recommended cruising speed	km/h kts	260,5 140,5	261,5 141,5	262,5 142,0	260,5 140,5	257,5 139,0
■ Fuel consumption at recommended cruising speed	kg/h lb/h	621 1369	633 1395	645 1422	652 1437	659 1453
■ Rate of climb (80kt, 2 engines at MCP)	m/s ft/mn	8,7 1707	7,8 1529	6,9 1366	6,2 1215	5,4 1072
■ Hover Ceiling IGE (at Take-off power, 10ft)						
• ISA	m ft	3,670 12,040	3,148 10,330	2,650 8,695	2,168 7,115	1,705 5,595
• ISA+20	m ft	2,977 9,770	2,456 8,060	1,956 6,420	1,475 4,840	1,011 3,320
■ Hover Ceiling OGE (at Take-off power)						
• ISA	m ft	2,481 8,140	1,946 6,385	1,431 4,695	937 3,075	460 1,510
• ISA+20	m ft	1,726 5,665	1,252 4,110	737 2,420	243 800	- -
■ Service ceiling (Vz = 0,508m/s = 100ft/mn)	m ft	5,900 19,350	5,390 17,690	4,920 16,260	4,460 14,630	4,020 13,180
■ Maximum range (without reserve, at economical cruise speed)						
• standard crashworthy tanks	km nm	872 471	860 464	847 457	834 450	820 443
• standard crashworthy tanks + central crashworthy tank	km nm	985 532	971 524	958 517	943 509	928 501
■ Maximum endurance (without reserve, at 148km/h = 80kts)						
• standard crashworthy tanks	h:mn	4:29	4:21	4:14	4:08	4:02
• standard crashworthy tanks + central crashworthy tank	h:mn	5:02	4:56	4:48	4:40	4:33

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Performance on 1 engine

Gross Weight	kg lb	9,000 19,842	9,500 20,944	10,000 22,047	10,500 23,149	11,000 24,251
■ Rate of climb (80kt, 1 engine at OEI unlimited)	m/s ft/mn	4,3 854	3,6 716	3,0 587	2,4 465	1,7 344
■ Service ceiling (1 engine at OEI unlimited) Vz=0,508m/s=100ft/mn	m ft	2,985 9,796	2,453 8,048	1,937 6,358	1,438 4,718	954 3,130

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
  - Flight — 6,095 m – 20,000 ft (PA)
  - Take-off and landing — 3,353 m – 11,000 ft (DA)
- Maximum temperature — ISA + 35°C limited to 50°C
- Minimum temperature — -30°C (standard configuration)
  -45°C (requires the installation of “kit for flight in extreme cold weather” to be contracted separately)

Abbreviations

AEO :	All Engines Operative	SL :	Sea Level
DA :	Density Altitude	TAS	True Air Speed
IGE :	In Ground Effect	VNE :	Never Exceed Speed
ISA :	International Standard Atmosphere	Vz :	Rate-of-climb
MCP :	Maximum Continuous Power	Zp :	Barometric Altitude
OEI :	One Engine Inoperative	Vp :	Airspeed
OGE :	Out of Ground Effect	Vmax :	Maximum cruise speed
PA :	Pressure Altitude	Vreco :	Economical cruise 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 :	kilometres
° C :	degrees Celsius	kg/hr :	kilograms per hour

Performance charts

The performance charts presented hereafter apply to a **clean** aircraft as per the **standard** definition, **with external sponsons**.

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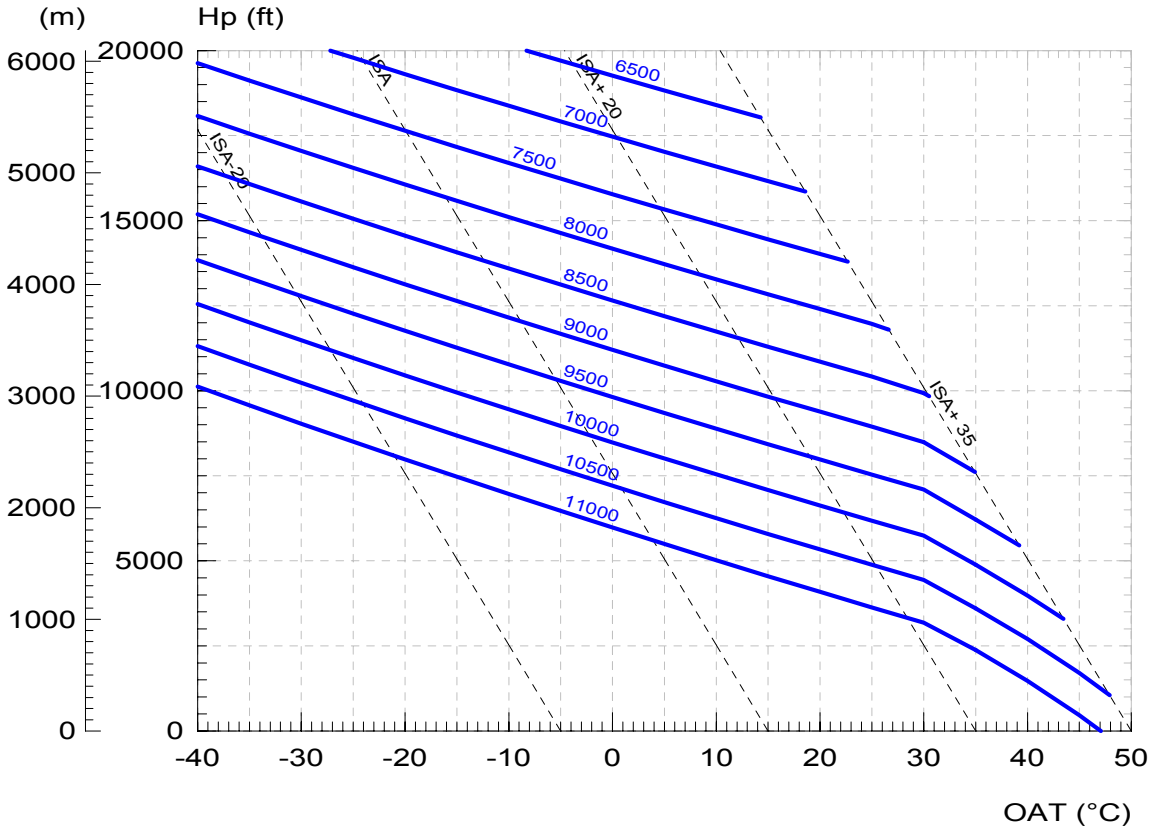
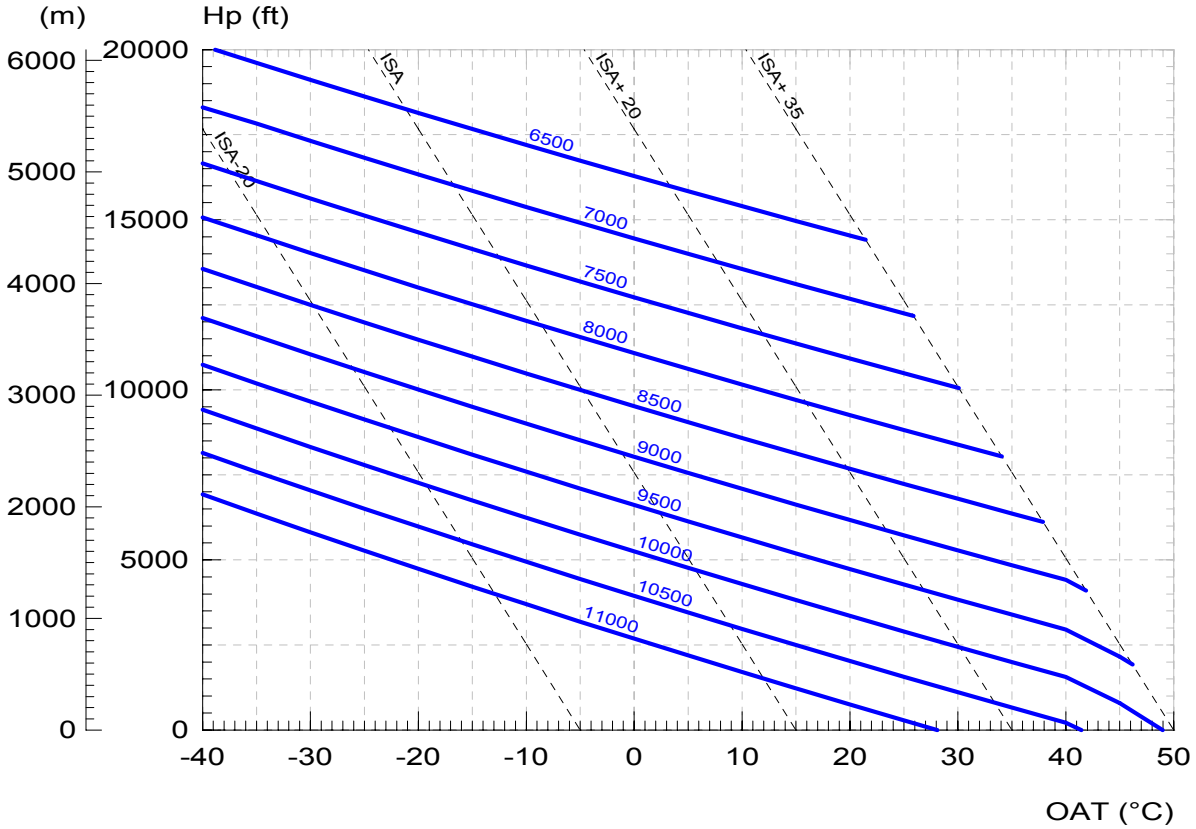
Take-off weight in hover IGE, AEO 5 min

10 ft, on 2 engines, at take-off power



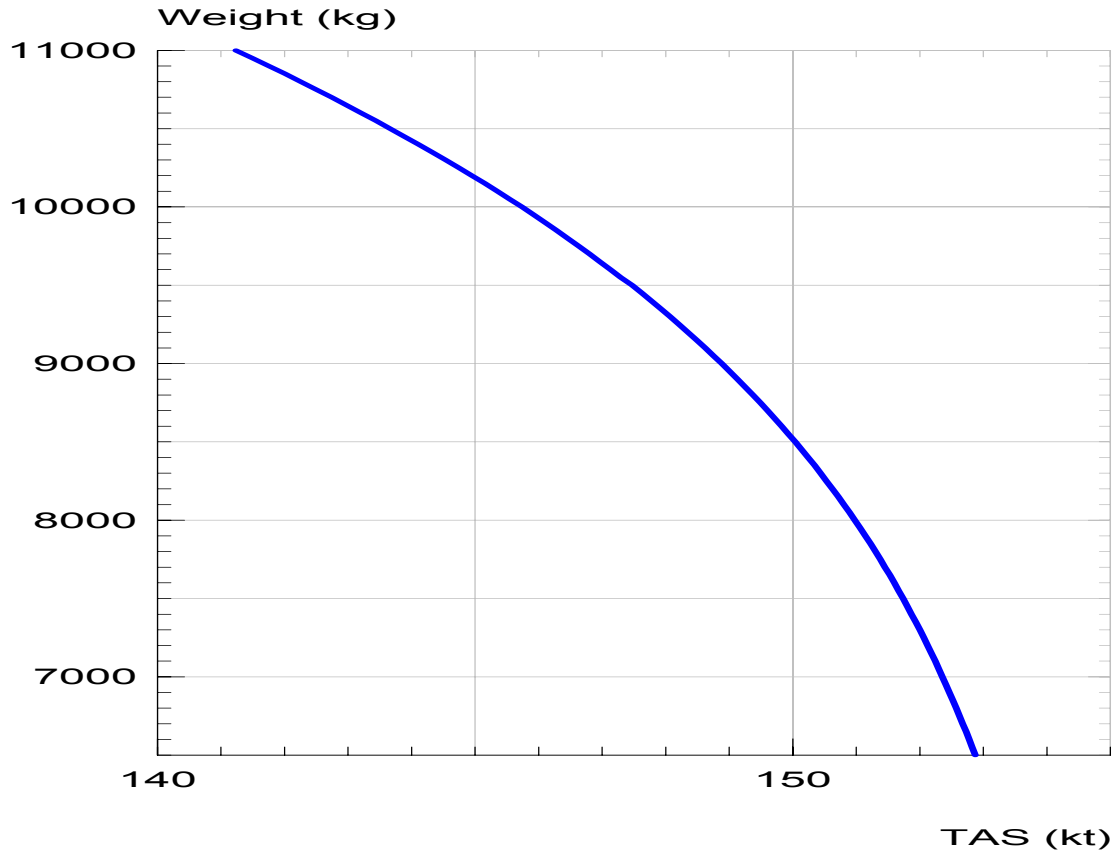
Take-off weight in hover OGE, AEO 5 min

on 2 engines, at take-off power



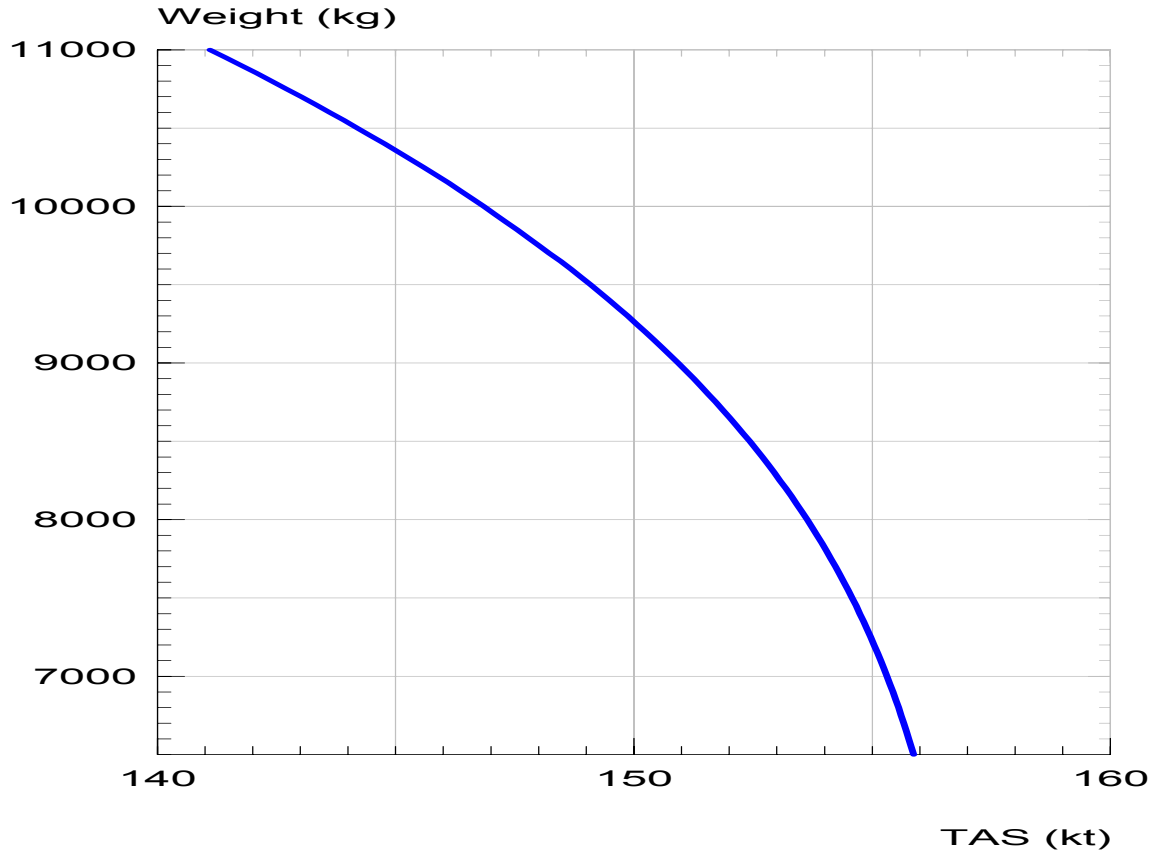
Fast cruise speed

Zp = 0, ISA
on 2 engines, at maximum continuous power



Fast cruise speed

Zp = 0, ISA + 20
on 2 engines, at maximum continuous power



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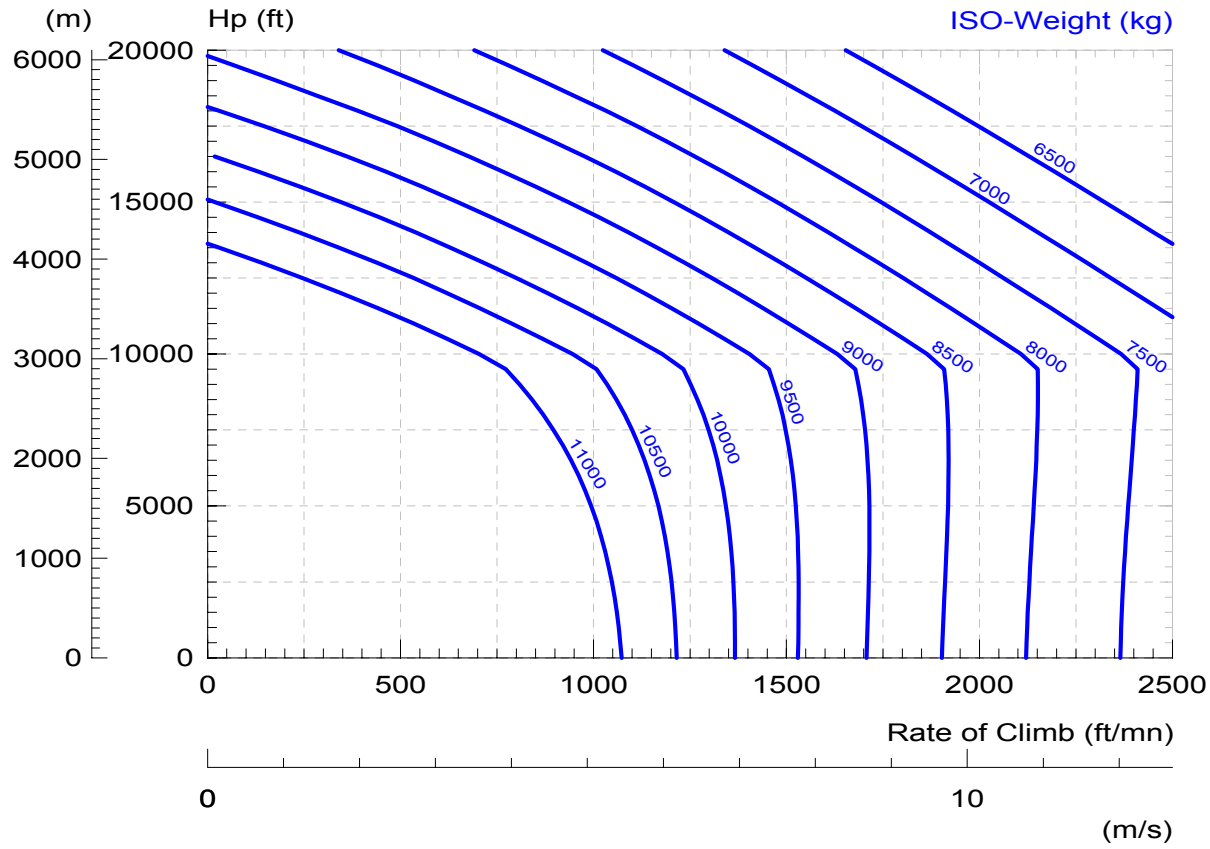
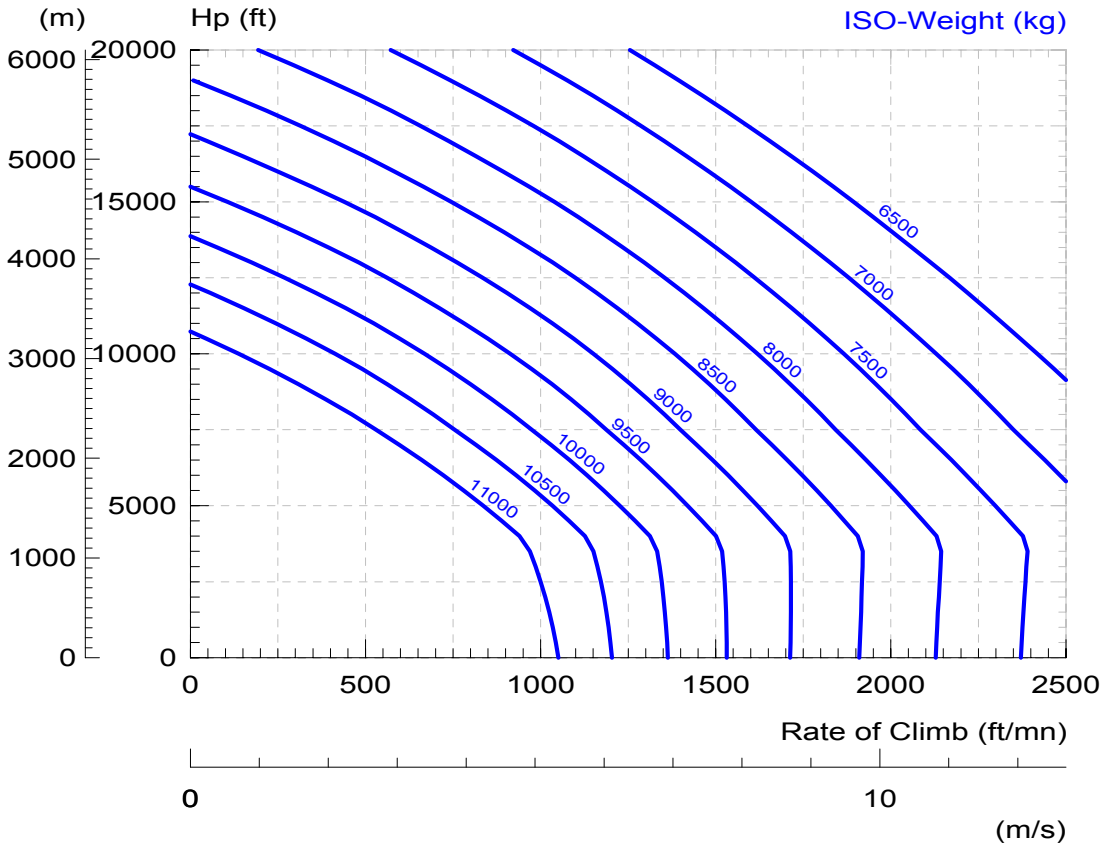
Rate of climb in oblique flight

ISA – T.A.S. = 80 kts
on 2 engines, at maximum continuous power



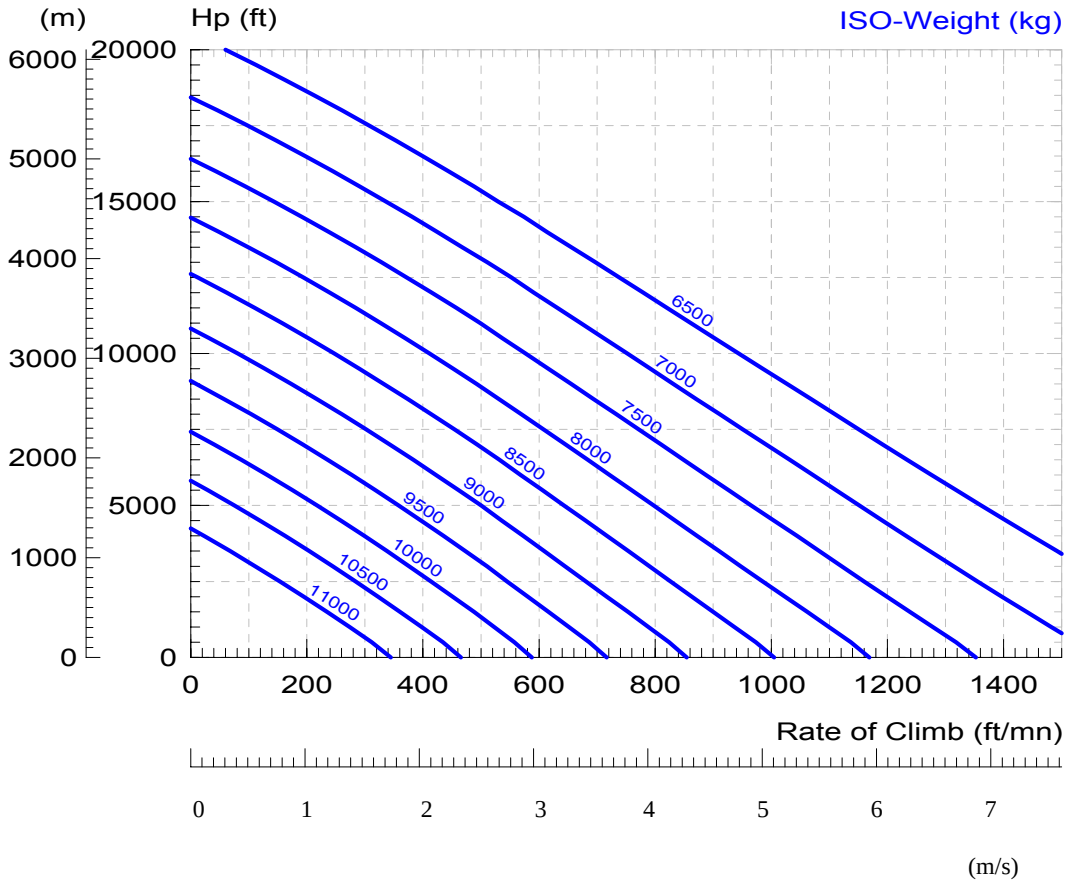
Rate of climb in oblique flight

ISA + 20 - T.A.S. = 80 kts
on 2 engines, at maximum continuous power



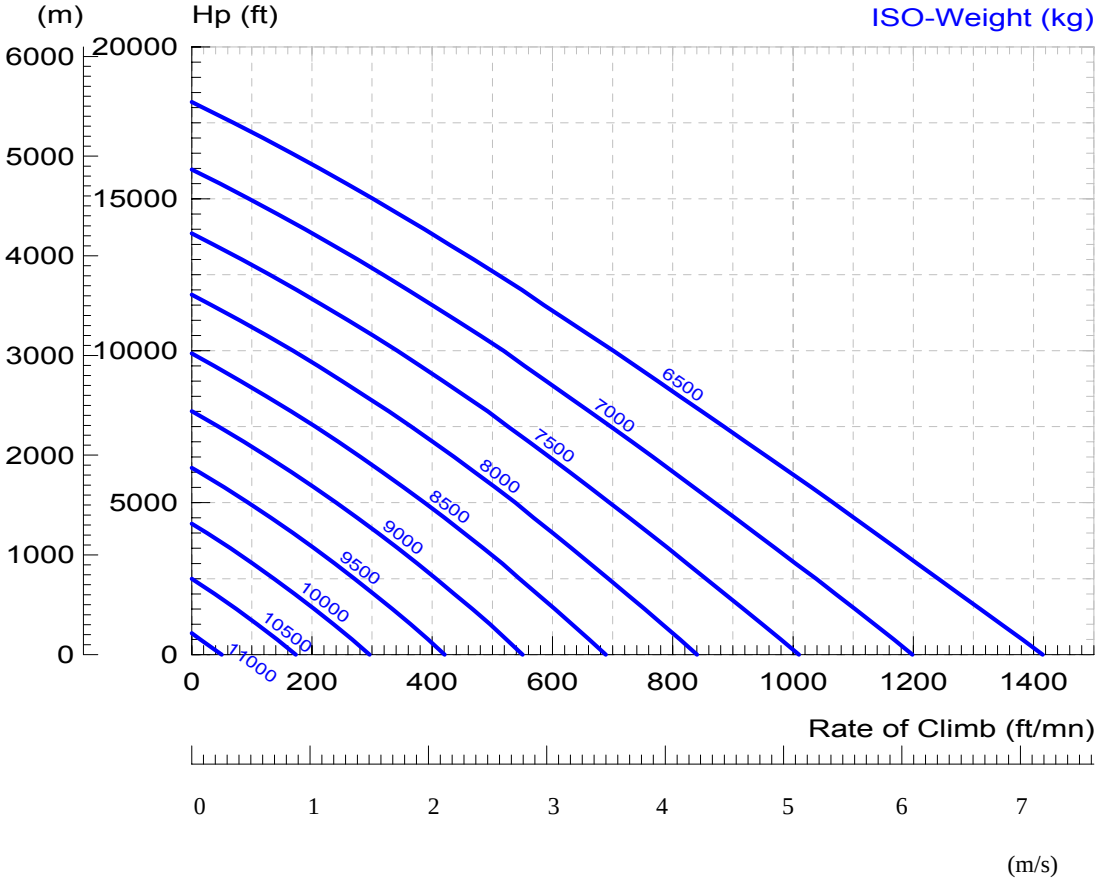
Rate of climb in oblique flight

ISA - T.A.S. = 80 kts
on 1 engine, OEI unlimited



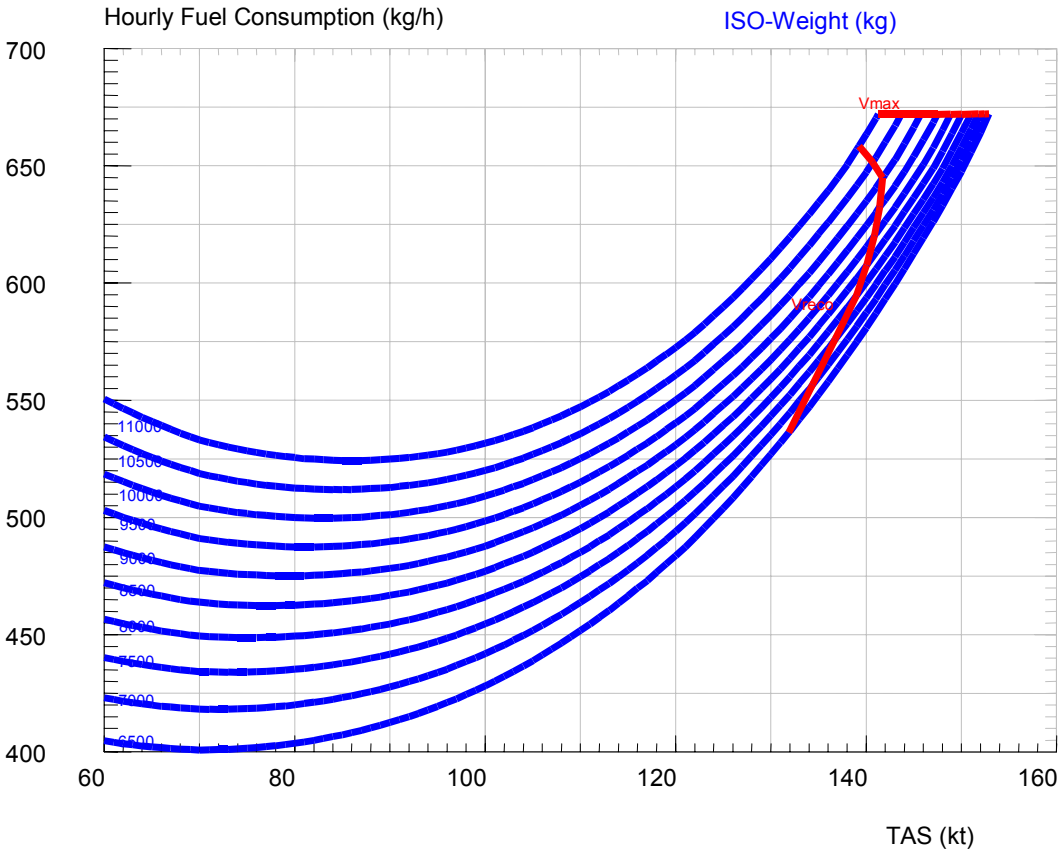
Rate of climb in oblique flight

ISA + 20 - T.A.S. = 80 kts
on 1 engine, OEI unlimited



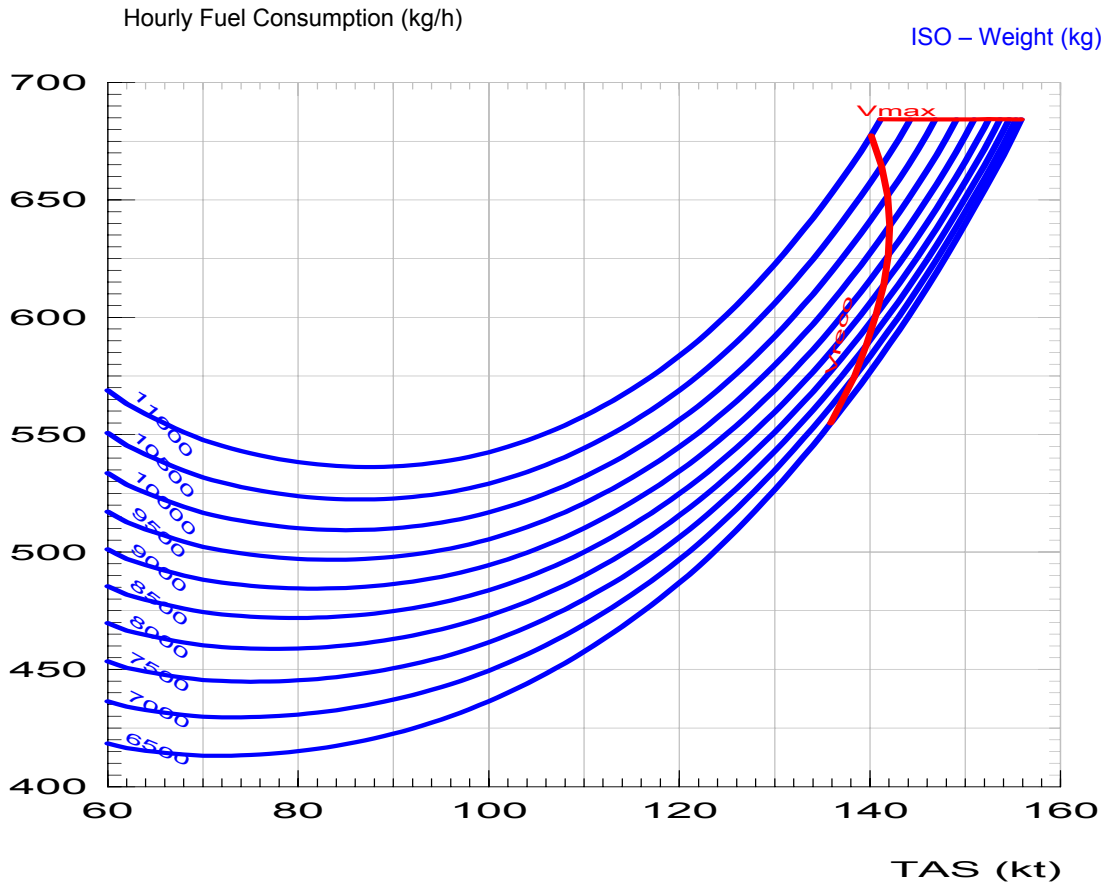
Hourly fuel consumption

SL, ISA



Hourly fuel consumption

SL, ISA + 20



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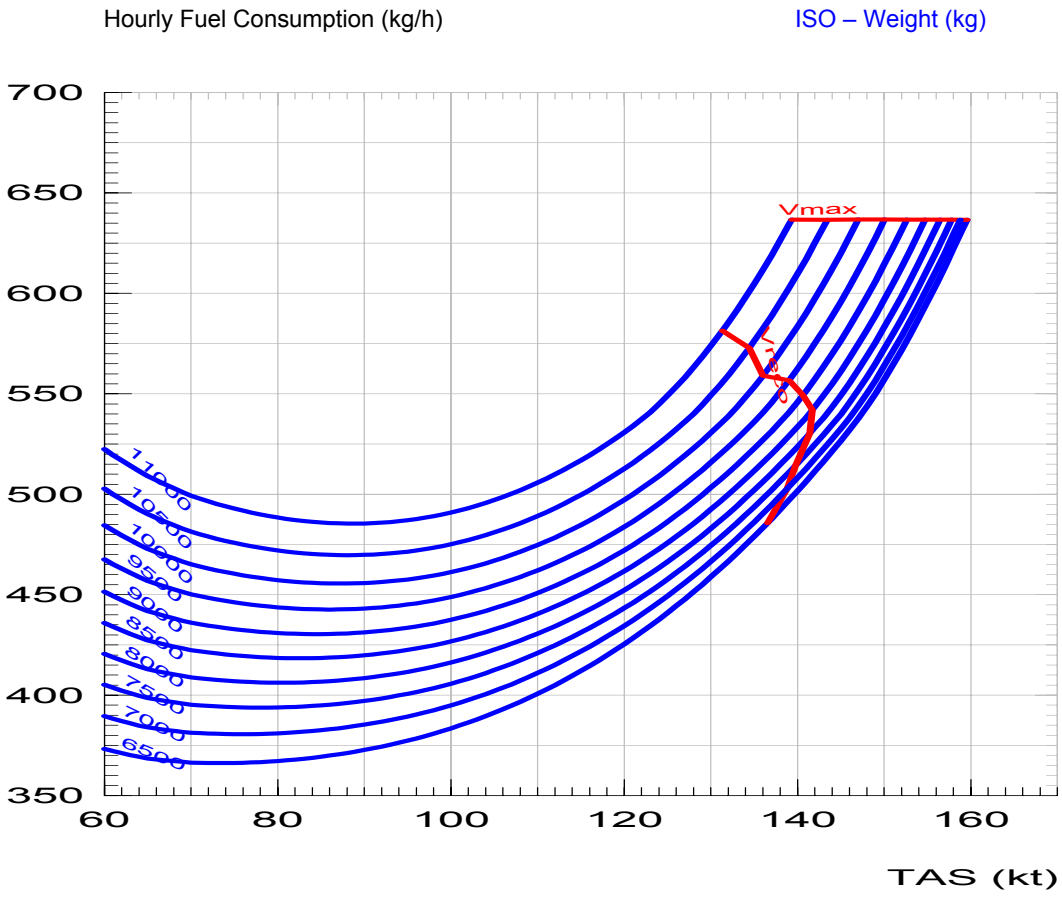
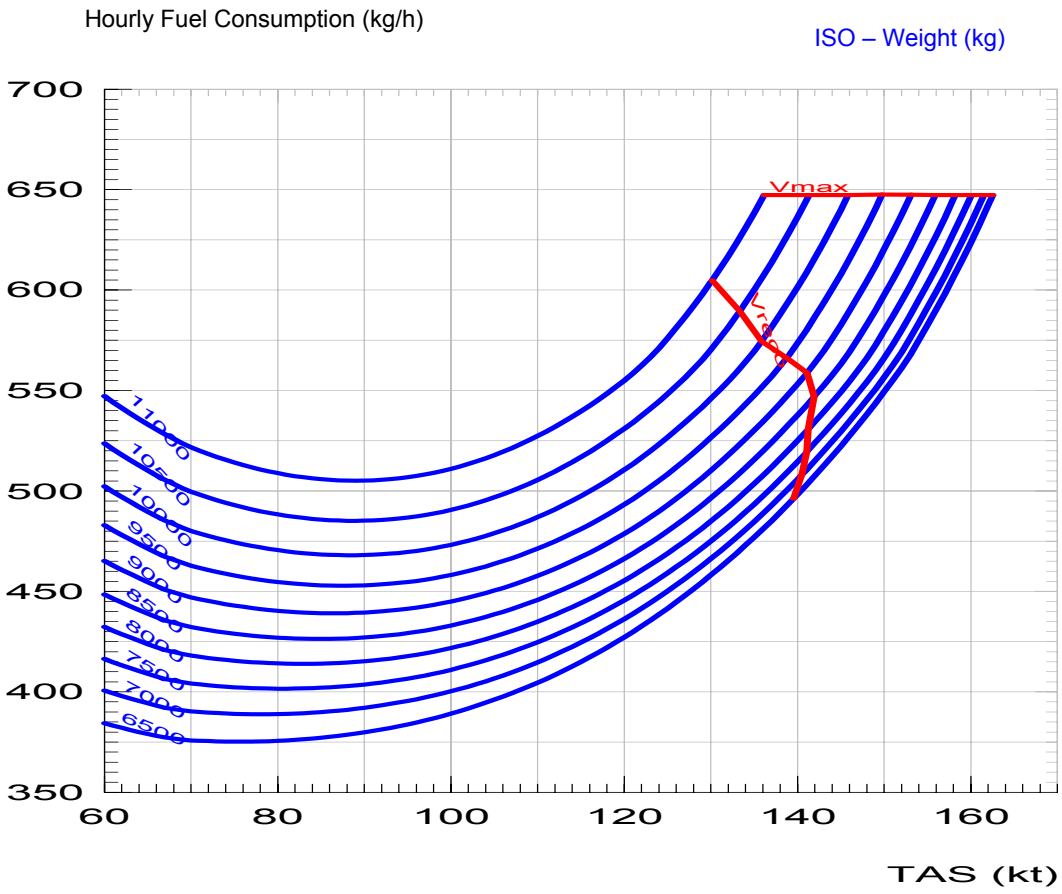
Hourly fuel consumption

Zp = 5000 ft, ISA



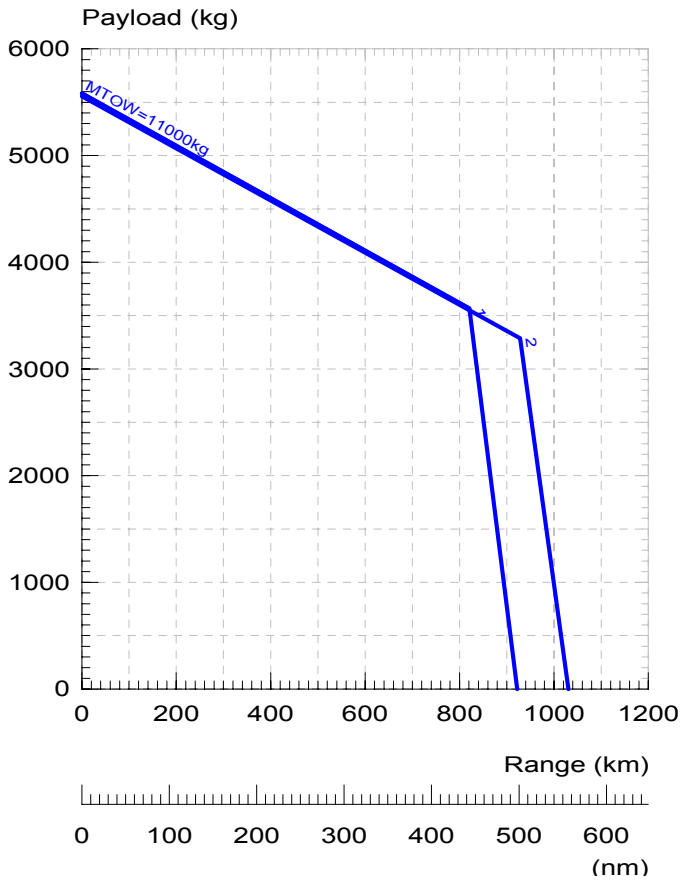
Hourly fuel consumption

Zp = 5000 ft, ISA + 20



PAYLOAD / RANGE CHART

SL ISA



with pilot and copilot (160 kg) , no taxying, no reserve.

1 : Standard tanks
2 : Standard tanks + central crashworthy fuel tank