

Contents

1 - General characteristics	3
2 - Standard Aircraft Definition	6
3 - Optional equipment	8
4 - Equipment compatibility	17
5 - Main performance	18

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- General Characteristics

Lay-Out

- **Minimum crew**
(D.G.A.C Category A and B certification)
 - VFR :
 - 1 pilot (+ 1 licenced crewman for category A)
 - IFR :
 - 2 pilots
- **Passenger transport**
(in addition to the crew) up to
 - 24 comfort seats + 1 cabin attendant
- **VIP transport**
(in addition to the crew)
 - 8 to 12 passengers

Weights

Note : Empty weight accuracy : within ± 2.0 %

	kg	lb
■ Empty weight, standard aircraft (including engine oil and unusable fuel)	4,722	10,410
■ Useful load	4,578	10,092
■ Maximum all-up weight	9,300	20,502
■ Maximum cargo-sling load	5,000	11,023
■ Maximum all-up weight in external load configuration	10,500	23,148

Power plant

2 Turbomeca Makila 1A2 turbine engines

Engine ratings

Power per engine, in standard atmosphere, at sea level :

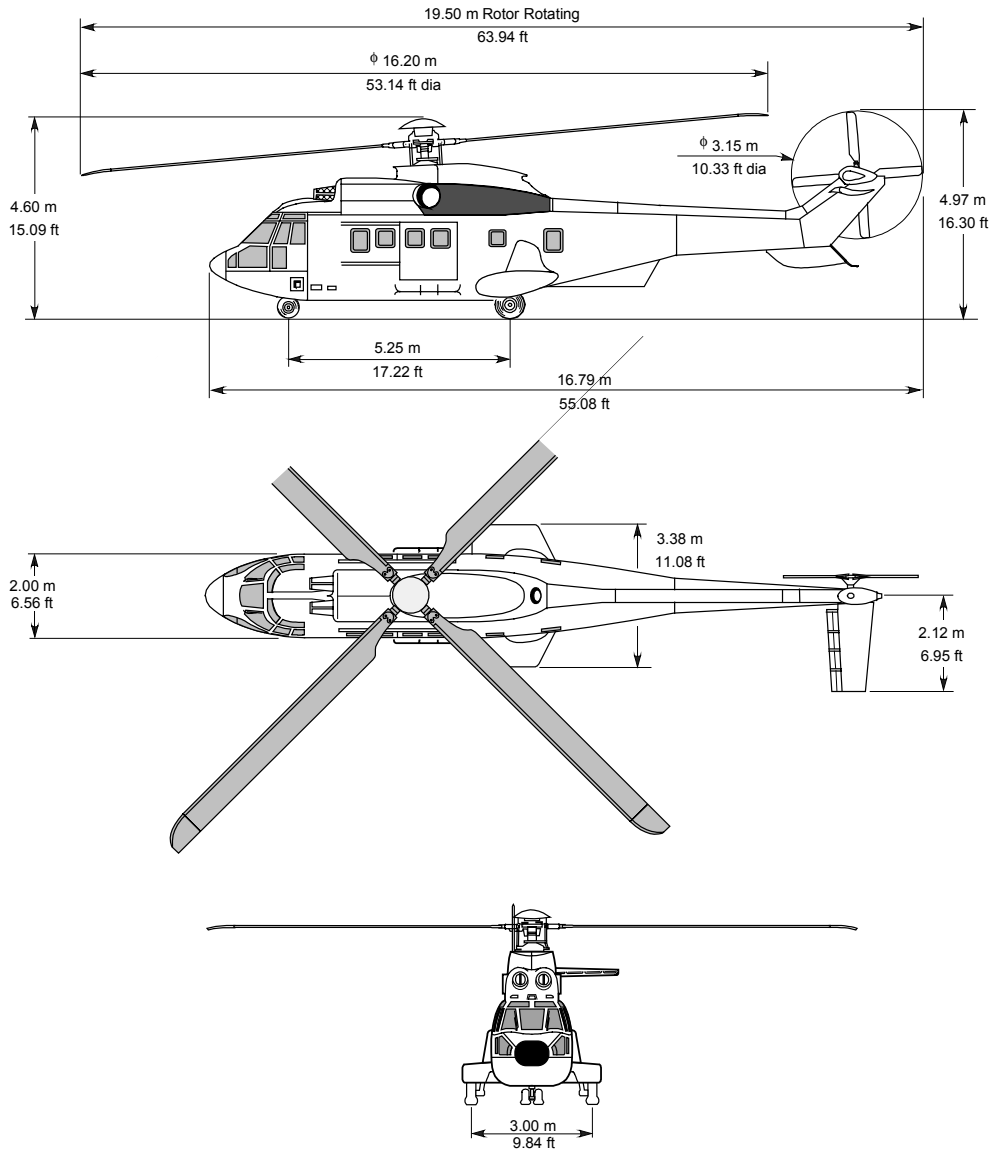
	kW	ch	shp
■ Maximum emergency power (OEI 30")	1,573	2,139	2,109
■ Intermediate emergency power (OEI 2')	1,467	1,995	1,967
■ Unlimited emergency power (OEI unlimited)	1,420	1,931	1,904
■ Take-off power	1,376	1,871	1,845
■ Maximum continuous power	1,236	1,679	1,657

Usable Fuel capacities

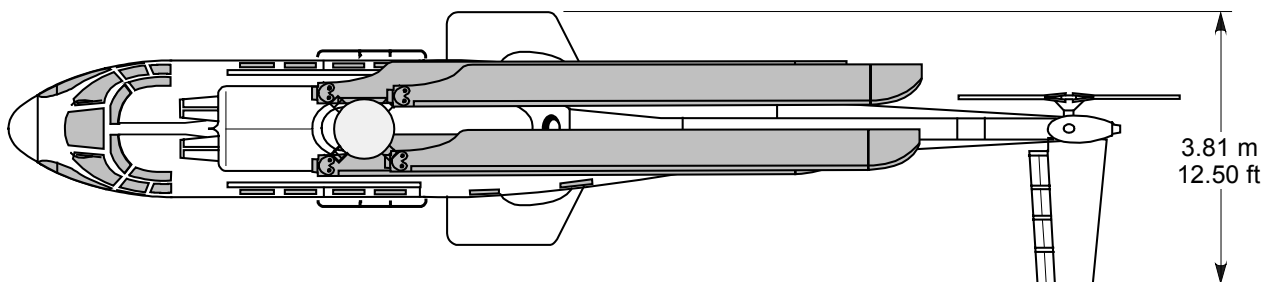
	litres	US gal.	kg	lb
■ Standard fuel tanks	2,020	535	1,595	3,516
■ Auxiliary fuel tanks (option)				
● Central fuel tank	321	84	254	560
● Sponson fuel tanks (crashworthy self-sealing type)	2 x 295	2 x 78	2 x 233	2 x 513
● 1 to 5 ferrying fuel tanks	5 x 475	5 x 126	5 x 375	5 x 826

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Main dimensions



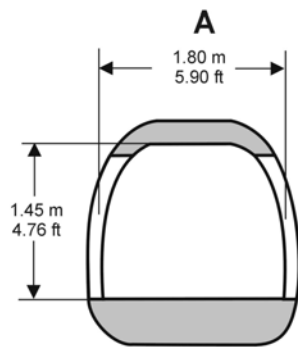
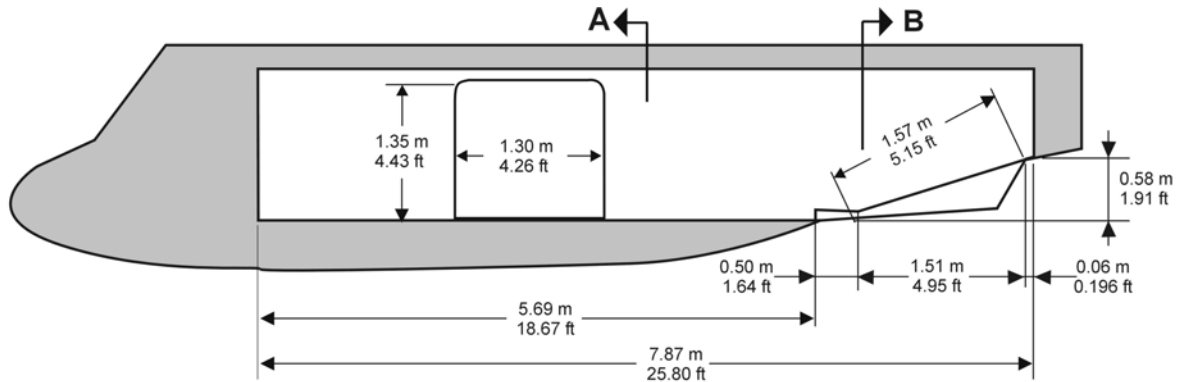
Dimensions with blades folded



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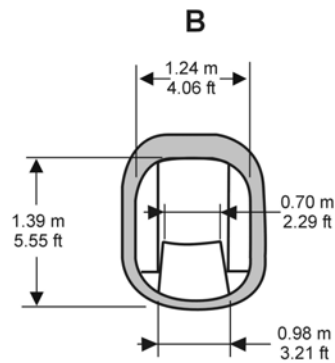
Dimensions of compartments and accesses

Cabin main dimensions



AREA AVAILABLE

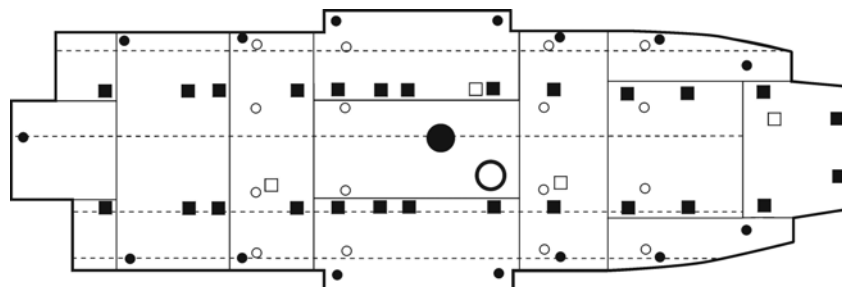
10.50 m²
112.95 sq. ft



VOLUME AVAILABLE

15.50 m³
547.30 cu. ft

Cabin floor



- Tie-down rings
- Ferry tank attachment
- Troop seat attachment
- Stretcher support rings
- Cargo sling load watch-window
- - - Passenger seat rail attachment
- Sling passage

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2- Super Puma AS 332 L2 - 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 prop for tail rotor protection and stabilizer
- Front part of the tail boom arranged as a luggage compartment
- Fuselage upper part used as transmission deck
- Fuselage lower part fittable with the following optional equipment :
 - crashworthy fuel tanks
 - floatation gear
 - multipurpose sponsons
- 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 castoring 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 CRT displays
- 1 airspeed indicator
- 1 altimeter
- 2 stop watches
- 1 self-contained gyro-horizon
- 1 stand-by magnetic compass
- 1 RMI
- 1 thermometer
- 1 dual torquemeter indicator
- 2 fuel pressure indicators
- 1 hydraulic circuit control and monitoring panel
- 1 gear boxes control panel including MGB oil pressure indicator and MGB oil temperature indicator
- 2 gas generator RPM deviation indicators
- 2 exhaust temperature indicators
- 2 dual engine oil pressure and temperature indicators
- 1 self-contained rotor tachometer
- 1 rotor and free turbines 1 and 2 triple tachometer
- 1 warning panel
- 2 autopilot control boxes
- 2 display control panels
- 1 fuel circuit control and monitoring panel with 2 fuel contents displays
- 1 AC/DC control panel
- 1 engine starting panel
- 1 landing gear position control and monitoring panel
- 2 heated pitot static and total heads
- 1 ventilation/heating system control and monitoring panel

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)

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POWER PLANT

- 2 TURBOMECA MAKILA 1 A2 1573 kW (2139 ch - 2109 shp) maximum emergency power turbine engines in two separate groups with own starting, feeding, lubricating, cooling and governing systems including a O.E.I Training module
- 1 fuel system of 2020 litres (535 US gal.) usable capacity comprising 6 tanks, arranged in 2 groups, 4 booster pumps
- 1 transfer pump and a low/high fuel warning system
- Provisions for ferrying, central auxiliary and external 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

TRANSMISSION SYSTEM

- 1 main gearbox on flexible mountings with 3 chip detectors one of which with fuse 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 rotor brake
- 2 MGB bay fire detection circuits

ROTOR AND FLYING CONTROLS

- 1 articulated main rotor with 4 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
- 1 dual/duplex digital autopilot associated with 2 flight data computers
- 1 stand-by vertical gyro unit SFIM GV 76
- 1 THALES AHV16 radio altimeter

ELECTRICAL INSTALLATION

- 2 20/30 kVA, 115/200 V, 400 Hz alternators
- 1 43 amp.-hr cadmium-nickel battery
- 2 transformer-rectifiers
- 1 4 amp.-hr stand-by battery
- 1 26 V, 400Hz transformer
- 1 cockpit lighting system including :
 - white/blue pedestal instrument and overhead panel lighting (normal/stand-by)
 - 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 ancillaries (28 V, 15 amp.)
- 1 receptacle for ancillaries (28 V, 25 amp.)
- 2 external power receptacles (AC and DC)
- 1 600 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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3- 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				
05-01002-A	05-01002-00-CI	JAR OPS 3 kit	12.0	26.5
05-01009-A	05-01009-00-CI	CAA airworthiness kit 1	9.4	20.7
05-03006-A	05-03006-00-CI	First aid kit	0.5	1.1
05-11001-A	05-11001-00-CI	Multipurpose sponsons with cabin plug-in doors or VIP doors	56.4	124.3
05-11002-A	05-11002-00-CI	External luggage hold for multipurpose sponsons	12.5	27.6
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 3 (anti-sand, 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	26.4
05-31011-A	05-31011-00-CI	Cockpit green-tinted panes with 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
05-31039-A	05-31039-00-CI	2 observation bubble windows on cabin plug-in doors	1.0	2.2
05-39005-A	05-39005-00-CI	Map holder	1.0	2.2

- 1** This kit requires mandatory fitment of the hydro electric group for over-sea flight, the de-iced cockpit center pane with windshield wiper, the crashworthy fuel tanks, the AVAD, the EUROHUMS and an additional landing light (see 06-42...).
- 2** Include the supply of standard cowling.
- 3** Mounted in production-line instead of the standard air intakes.

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Document reference	Commercial reference	Name	kg	lb
General equipment (continued)				
05-42013-A	05-42013-00-CI	Cockpit and cabin air conditioning system 1 2	125.0	275.6
05-50002-A	05-50002-00-CI	Installation for flight in extreme cold weather	56.1	123.7
05-50003-A	05-50003-00-CI	Kit for flight in limited icing conditions (submitted approval by local Airworthiness Authority) 3	2.0	4.4
05-51001-A	05-51001-00-CI	De-iced cockpit center pane with wiper	3.0	6.6
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 4	7.4	16.3
05-64000-A	05-64000-00-CI	Auxiliary Power Unit	105.0	26.5
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
05-81008-A	05-81008-00-CI	Crashworthy fuel tanks (transverse and rear)	29.2	64.4
05-81009-A	05-81009-00-CI	Crashworthy longitudinal fuel tanks	12.0	26.5
05-81020-A	05-81020-00-CI	Central auxiliary fuel tank (321 l – 85 US gal)	21.9	48.3
05-81028-A	05-81028-00-CI	Crashworthy self sealing sponsons fuel tanks (2 x 295 l - 2 x 78 US gal) 5	74.6	164.5
05-82004-A	05-82004-00-CI	Pressure refuelling on the ground with standard sponsons	11.5	25.4
05-82005-A	05-82005-00-CI	Pressure refuelling usable on the ground with crashworthy self-sealing sponson fuel tanks	18.1	39.9
05-82010-A	05-82010-00-CI	Pressure refuelling on the ground with multipurpose sponsons (without sponson fuel tanks)	12.4	27.3
05-84008-A	05-84008-00-CI	One ferrying fuel tank (475 l - 126 US gal) 1 to 5 tanks per helicopter	22.5	49.6
05-92008-A	05-92008-00-CI	Main rotor blade 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

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

2 Requires the installation of multipurpose sponsons.

3 The use of this installation requires mandatory fitment of the following equipment :

- Weather radar (see 08-31...).
- De-iced center pane (see 05-51...).
- Icing detector (see 05-52...).

4 Instead of standard 20/30 kVA ones.

5 Type of optionals equipment which can be mounted in the Multipurpose sponsons :

06-61010-00-FP + 06-62005-00-CI + 05-81028-00-CI OR 06-61010-00-FP + 06-62005-00-CI + 05-11002-00-CI.

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Specific mission equipment				
06-11019-A	06-11019-00-FP	Skis – Fixed Parts 1	9.9	21.8
	06-11019-00-RP	Skis – Removable Parts	166.0	361.6
06-21013-A	06-21013-00-FP	Fixed hydraulic hoist with variable speed 75 meter cable, 272 kg (246 ft, 600 lb) – Fixed Parts 2	6.9	15.2
	06-21013-00-RP	Fixed hydraulic hoist with variable speed 75 meter cable, 272 kg (246 ft, 600 lb) – Removable Parts	47.8	105.4
06-22003-A	06-22003-00-FP	Electrical back-up hoist – Fixed Parts	8.2	18.1
	06-22003-00-RP	Electrical back-up hoist – Removable Parts	15.0	33.1
06-23002-A	06-23002-00-FP	Fast roping installation on both sides – Fixed Parts	4.2	9.3
	06-23002-00-RP	Fast roping installation on both sides – Removable Parts	74.0	163.2
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 metric tons) – Fixed Parts 3 4	10.2	22.5
	06-27013-00-RP	Cargo sling with dynamometer (3.8 metric tons) – Removable Parts	27.7	61.1
06-27014-A	06-27014-00-FP	Cargo sling with dynamometer (5 metric tons) – Fixed Parts 5	4.4	9.7
	06-27014-00-RP	Cargo sling with dynamometer (5 metric tons) – Removable Parts	28.2	62.2
06-31010-A	06-31010-00-CI	Hailer installation (qty 1)	40.9	90.2
06-41003-A	06-41003-00-CI	Hella anti collision strobe light system (instead of standard anti collision light)	6.5	14.3
06-41004-A	06-41004-00-CI	Soderberg anti collision light (belly mounted) 6	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	14.7

1 Limited 9 tons.

2 Implies the fitting of the 4th control box of I.C.S (see 08-16...).

3 Compatible with the central fuel tank (see 05-81...).

4 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.

5 The customer choosing the 3,8 metric ton cargo sling has then automatically the 5 metric ton cargo sling fixed parts

6 Requires removal of the central auxiliary fuel tank if it has been selected by the user.

6 Highly recommended.

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<i>Document reference</i>	<i>Commercial reference</i>	<i>Name</i>	kg	lb
Specific mission equipment (continued)				
06-45016-A	06-45016-00-FP	Search-light Spestrolab SX-16 with additional cockpit control – Fixed Parts	4.9	10.8
	06-45016-00-RP	Search-light Spestrolab SX-16 with additional cockpit control – Removable Parts	24.0	53.0
06-61010-A	06-61010-00-FP	Emergency floatation gear – Fixed Parts 1 2	23.1	50.9
	06-61010-00-RP	Emergency floatation gear – Removable Parts	149.4	329.4
06-62005-A	06-62005-00-CI	2 Life rafts 18-27 pax in the multipurpose sponsons with jettison control in cockpit 2	137.1	302.3
06-62006-A	06-62006-00-CI	Life raft Aerazur 551 - 15 - 22 pax (loose equipment)	43.0	94.8
06-62007-A	06-62007-00-CI	Life raft Aerazur 610 - 10 - 15 pax (loose equipment)	22.0	48.5
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)	12.0	26.5
06-67014-A	06-67014-00-CI	Serpe–IESM Kannad 406 AF Emergency Locator Transmitter (3 frequencies) 3	2.1	4.6
06-69002-A	06-69002-00-CI	Racal V 694 Automatic Voice Alarm Device (AVAD)	1.3	2.9
		Nose mounted Flir Installation 4	on request	on request
		Cabin console for Flir installation	on request	on request

- [1](#) Requires the installation of multipurpose sponsons.
- [2](#) The sealing cowling in case of the floatation gear is supplied.
- [3](#) Acceptance by the Local Airworthiness Authorities to be checked.
- [4](#) This equipment can be submitted to export Licence. Please Consult the VPT specialist.

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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	3 rd crew man seat – Fixed Parts	0.2	0.4
	07-10009-00-RP	3 rd crew man seat – Removable Parts	6.2	13.7
07-25005-A	07-25005-00-CI	19 staggered seats installation with Comfort plus Upholstery	Being studied	Being studied
07-25021-A	07-25021-00-CI	19 comfort seat installation 1	192.7	424.9
07-25027-A	07-25027-00-CI	24 comfort seat installation + 1 attendant seat 1	220.1	485.3
07-30008-A	07-30008-00-CI	"De luxe" upholstery with enhanced sound proofing 2	365.0	804.8
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 2	7.0	15.4
07-50017-A	07-50017-00-CI	Special LH door with built-in steps 2	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	AAT EMS kit "quick conversion AS 332 series" Installation (2 units of 3 stretchers each) 3	197.0	434.4
07-74008-A	07-74008-00-CI	TRS 902 TRANSACO stretcher	10.0	22.1
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	Folding arm rests 2	on request	on request
07-82002-A	07-82002-00-CI	Adjustable back rests 2	on request	on request
07-83002-A	07-83002-00-CI	Electric curtains 2	on request	on request
07-84001-A	07-84001-00-CI	Inlaid wood table 2	on request	on request
07-85001-A	07-85001-00-CI	Transparent central partition with commode 2	on request	on request
07-91002-A	07-91002-00-CI	Gold metallic finishing 2	on request	on request
08-17021-A	08-17021-00-CI	VIP interphone 2	on request	on request
08-17023-A	08-17023-00-CI	CD and tape player 2	on request	on request
08-17024-A	08-17024-00-CI	Video tape recorder 2	on request	on request

- 1** This installation requires the fitting of the optionnal "luggage compartment".
2 These optionnals are indissociable of the optionnals 07-80014-00-CI OR 07-80015-00-CI.
3 Requires civil type seat rail (07-25...).

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Various Possibilities of the AS 332 L2 Cabin Installation

		Comfort upholstery with improved sound-proofing OR Standard civil upholstery	"De luxe" upholstery with enhanced sound-proofing	Comfort plus upholstery
	DOORS	Standard LH sliding door Standard RH sliding doors	Special LH door with built-in steps Special RH double door	Standard LH sliding door Standard RH sliding door
INTERIOR ARRANGEMENT	WITH STANDARD REAR ACCESS DOOR		8+1 seat VIP installation OR 12+1 seat VIP installation	
	WITH LUGGAGE COMPARTMENT	19 comfort places* OR 24 comfort places* + 1 attendant seat		19 staggered seats

* choice of 4 colours schemes.

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Document reference	Commercial reference	Name	kg	lb
Avionics				
08-00015-A	08-00015-00-CI	Civil uses minimum equipment Collins – VHF422A # 1 Collins – VHF422A # 2 Team TB 45 ICS, with 3 CP 2618 control panels Collins – TDR90 – Transponder with CAD 870G 1 Collins ADF 462 – ADF # 1 Collins DME 442 DME Collins - VIR 432 - VOR/ILS/MKR # 1 Collins – VIR 432 – VOR/ILS/MKR # 2	66.1	145.7
08-10005-A	08-10005-00-CI	Collins HF 9X00 HF/SSB	23.1	50.9
08-16024-A	08-16024-00-CI	Team TB45 ICS, 4 th control panel ref.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
08-18009-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
08-21004-A	08-21004-00-CI	Thales AHV16 2 nd Radio altimeter	6.6	14.6
08-22007-A	08-22007-00-CI	Collins – TDR 94 D-007 (S mode) Transponder instead of TDR 90	6.2	13.7
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 MHz) VHF/AM dual frequency homer	5.4	11.9
08-27022-A	08-27022-00-CI	Chelton DF931 V/UHF Direction Finder	8.0	17.6
08-31002-A	08-31002-00-CI	Telephonics RDR 1400 C Radar, displayed on IFDS NMD	18.9	41.7
08-31012-A	08-31012-00-CI	Telephonics RDR 1500 B radar	48.0	105.8
08-31018-A	08-31018-00-CI	Radar operator console 2	on request	on request
08-41004-A	08-41004-00-CI	Canadian Marconi CMA3012 GPS receiver	4.9	10.8
08-43006-A	08-43006-00-CI	Freeflight TNL 2101 approach+ GPS Navigation Computer (with antenna) linked to IFDS 3	3.3	7.3
08-44014-A	08-44014-00-CI	Canadian Marconi - CMA 3000 - Flight Management System 4	9.1	20.1

- 1** If Mode S is required, replace the transponder TDR90 by model TDR94.
- 2** Requires equipment 08-31012-00-CI (Telephonics RDR 1500 B radar).
- 3** Delivered with EUROPE map. Subscription to be made by the customer.
- 4** Requires equipment 08-41004-00-CI (Canadian Marconi CMA3012 GPS).

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<i>Document reference</i>	Commercial reference	Name	kg	lb
Avionics (continued)				
<i>08-44027-A</i>	08-44027-00-CI	Canadian Marconi - CMA 3000 - Flight Management System with SAR modes 4	33.0	72.8
<i>08-47002-A</i>	08-47002-00-CI	Thales RDN 85 Doppler radar	11.6	25.6
<i>08-74005-A</i>	08-74005-00-CI	Automatic transition and hover modes for MK2	3.7	8.2
<i>08-81007-A</i>	08-81007-00-CI	CV/FDR Allied Signal + MFDAU – Crash recorder 1	35.0	77.2
<i>08-83005-A</i>	08-83005-00-CI	EUROHUMS Mk2 with Allied Combi-lite CVFDR 2 3 4	48.8	107.6
	(refer to customer service)	Ground station EUROHUMS 2		

- 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 equipment 08-41004-00-CI (Canadian Marconi CMA3012 GPS).

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Document reference	Commercial reference	Name	Civil uses list	Search & rescue list
Validity of avionics equipment add-ons				
<i>B: basic minimum list</i>				
<i>O: optionnal equipment that can be added</i>				
<i>R: minimum recommended list</i>				
<i>N/A: not applicable</i>				
08-00015-A	08-00015-00-CI	Civil uses minimum equipment (IFR dual pilot)	B	B
08-10005-A	08-10005-00-CI	Collins HF9X00 HF/SSB	O	O
08-16024-A	08-16024-00-CI	Team TB45 ICS, 4th control panel: ref. 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	R
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
08-21004-A	08-21004-00-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
08-31002-A	08-31002-00-CI	Telephonics 1400 C Radar, displayed on IFDS NMD	O	R
<i>OR</i>				
08-31012-A	08-31012-00-CI	Telephonics RDR 1500 B radar	N/A	R
08-31018-A	08-31018-00-CI	Radar operator console 1	N/A	O
08-41004-A	08-41004-00-CI	Canadian Marconi CMA3012 GPS receiver	O	R
08-43006-A	08-43006-00-CI	Freeflight TNL 2101 approach+ GPS Navigation Computer (with antenna) linked to IFDS 2	O	N/A
08-44014-A	08-44014-00-CI	Canadian Marconi - CMA3000 - Flight Management System 3	O	N/A
<i>OR</i>				
08-44027-A	08-44027-00-CI	Canadian Marconi - CMA3000 - Flight Management System with SAR modes	N/A	} R (non divisible)
08-47002-A	08-47002-00-CI	Thales RDN 85 Doppler radar	N/A	
08-74005-A	08-74005-00-CI	Automatic transition and hover modes for MK2	N/A	
08-81006-A	08-81006-00-CI	CV/FDR Allied Signal + MFDAU - Crash recorder 4	O	O
08-83005-A	08-83005-00-CI	Eurohums Mk2 with Allied Combi-lite CVFDR 5 6 7	O	O
		Ground station EUROHUMS 5	O	O

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

- 1** Requires equipment 08-31012-00-CI (Telephonics RDR 1500B radar).
- 2** Delivered with EUROPE map. Subscription to be made by the customer.
- 3** Requires equipment 08-41004-00-CI (Canadian Marconi CMA3012 GPS receiver).
- 4** Compatible with JAR OPS-3 regulation.
- 5** Requires at least one ground station per helicopter base.
- 6** The toolings of the installation are not included.
- 7** Requires ground means.

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4- 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				
05-11002-A	External luggage hold for multipurpose sponsons		05-81028	
05-31039-A	2 Observation bubble windows on cabin plug-in doors	07-50014 07-50017		
05-81007-A	Crashworthy central auxiliary fuel tank 1 x 320 litres (1 x 84 US gal.)	05-81020	06-27014	
05-81020-A	Central auxiliary fuel tank 1 x 324 litres (1 x 85 US gal.)	05-81007	06-27014 06-26006	
05-81028-A	Crashworthy sponson fuel tanks	05-82004	05-11002	
05-82004-A	Pressure refuelling on the ground	05-81028 05-82005		
05-82005-A	Pressure refuelling on the ground usable with crashworthy sponson fuel tanks	05-82004		
05-84008-A	Ferrying fuel tanks 1 to 5 x 475 litres (1 to 5 x 126 US gal.)		07-25021 07-25027	06-21013
Specific mission equipment				
06-21013-A	Fixed hoist (600 lb); 246 ft cable with variable speed	06-50014		05-84008 06-27013 06-27014
06-25004-A	Drip tub	07-50014	05-81020 07-25021 06-27014 07-25027	
06-27013-A	Cargo sling with dynamometer (3,8 metric tons)		06-27014	06-21013
06-27014-A	Cargo sling with dynamometer (5 metric tons)		05-81007 06-27013 05-81020 07-25021 06-25004 07-25027	06-21013
Interior layout				
07-25021-A	19 comfort places installation	07-30008 07-50014 07-50017	05-84008 06-27014 06-25004 07-25027 06-26006	
07-25027-A	24 comfort places installation + 1 attendant seat	07-30008 07-50014 07-50017	05-84008 07-25005 06-25004 07-25021 06-27014	
07-30008-A	"De-luxe" upholstery with enhanced sound-proofing	07-25021 07-30010 07-25027		
07-30010-A	Comfort upholstery with improved sound-proofing	07-30008		
07-50014-A	Special RH double door	05-31039 07-25021 06-21013 07-25027 06-25004		
07-50017-A	Special LH door with built-in steps	05-31039 07-25027 07-25021		

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

5- Main performance

The following performance values and figures refer to an **AS 332 L2**, 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	6,000 13,230	7,000 15,430	8,000 17,630	9,300 20,502
■ Maximum speed, VNE	km/hr kts	315 170	315 170	315 170	315 170
■ Maximum cruising speed (at MCP)	km/hr kts	282 152	285 154	284 153	278 150
■ Recommended cruising speed	km/hr kts	260 140	262 141	261 141	251 136
■ Fuel consumption at recommended cruising speed	kg/hr lb/hr	500 1,102.5	500 1,102.5	500 1,102.5	500 1,102.5
■ Fuel consumption at 70 kts	kg/hr lb/hr	328 723	355 783	378 833	410 904
■ Rate-of-climb at 70 kts	m/sec ft/min	>10 >1,969	8.8 >1,732	8.8 1,732	6.4 1,259
■ Hover ceiling IGE (10 ft) at take-off power					
● ISA	m ft	6,740 22,112	5,346 17,539	4,158 13,641	2,775 9,104
● ISA + 20°C	m ft	6,065 19,898	4,670 15,321	3,432 11,259	1,960 6,430
■ Hover ceiling OGE at take-off power					
● ISA	m ft	6,000 19,686	4,640 15,321	3,410 11,188	1,960 6,430
● ISA + 20°C	m ft	5,850 19,193	3,920 12,861	2,660 8,727	1,100 3,608
■ Range (without fuel reserve, at economical cruise speed)					
● With standard fuel tanks	km n.m	609 329	831 449	836 451	827 447
● With central auxiliary fuel tank	km n.m	595 321	962 519	969 523	961 519
● With sponson fuel tanks	km n.m	557 301	1,077 582	1,089 677	1,082 584
● With sponson and central auxiliary fuel tanks	km n.m	544 294	1,063 574	1,220 659	1,215 656
● With sponson, central and cabin fuel tanks	km n.m	518 280	1,037 644	1,464 790	1,464 790
■ Endurance (without reserve at 130 km/hr –70 kts)					
● With standard fuel tanks	hr: min	3:49	4:46	4:26	4:05
● With central auxiliary fuel tank	hr: min	3:44	5:36	5:11	4:46
● With sponson fuel tanks	hr: min	3:30	6:24	5:56	5:27
● With sponson and central auxiliary fuel tanks	hr: min	3:25	6:08	8:12	7:31
● With sponson, central and cabin fuel tanks	hr: min	3:14	6:08	8:12	7:31

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

Performance in external load

	kg lb	9,500	9,750	10,000
		20,943	21,495	22,045
■ Rate-of-climb	m/sec ft/min	5.8 1,141	5.4 1,063	5.0 984
■ Hover ceiling OGE at take-off power ISA	m ft	1,750 5,741	1,500 4,921	1,050 3,445
■ Hover ceiling OGE at take-off power ISA + 20°C	m ft	860 2,821	580 1,902	300 984

Performance on 1 engine

Gross Weight	kg lb	6,000	7,000	8,000	9,300
		13,230	15,430	17,630	20,502
■ Rate-of-climb - OEI unlimited - S.L.	m/sec. ft/min.	> 7 > 1,378	6.1 1,220	4.5 885	2.6 511
■ Service ceiling - OEI unlimited. (Vz = 0) ISA	m ft	5,800 19,029	4,400 14,436	3,200 10,499	1,750 5,741
■ Service ceiling - OEI unlimited. (Vz = 0) ISA + 20°C	m ft	5,150 16,897	3,750 12,303	2,450 8,038	950 3,116
■ Maximum temperature for take-off in Cat. A from clear heliport at S.L.	°C	> 50	> 50	> 50	37

Maximum Take-Off Weight OEI - 2 min

	kg lb	ISA	ISA + 20°C
		■ In hover IGE (10 ft)	7,690 16,957
■ In hover OGE	7,200 15,876	6,600 14,553	

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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 : 2,194 m – 7,200 ft (DA)
- Maximum temperature : ISA + 35°C limited to 50°C
- Minimum temperature : -30°C (basic)
-45°C (with optional installation for flight in extreme cold weather)

Abbreviations

AEO :	All Engines Operative	TAS :	True Air Speed
AGL :	Above Ground Level	TOP :	Take-Off Power
DA :	Density Altitude	VNE :	Never Exceed Speed
IGE :	In Ground Effect	VTOL :	Vertical Take-Off and Landing
ISA :	International Standard Atmosphere	Vtoss :	Take-off safety speed
MCP :	Maximum Continuous Power	Vy :	Optimum climbing speed
OEI :	One Engine Inoperative	Vz :	Rate-of-climb
OGE :	Out of Ground Effect	Zp :	Barometric Altitude
PA :	Pressure Altitude	Vp :	Airspeed
SL :	Sea Level		

Units

nm :	nautical miles	kg :	kilograms
kts:	knots	lb :	pounds
ft/min :	feet/minute	km :	kilometers
m/sec :	meters per seconds	Vreco :	Economical cruise speed
° C :	degrees Celsius	kg/hr :	Kilograms per hour
hr:min :	hours:minutes		

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Performance charts

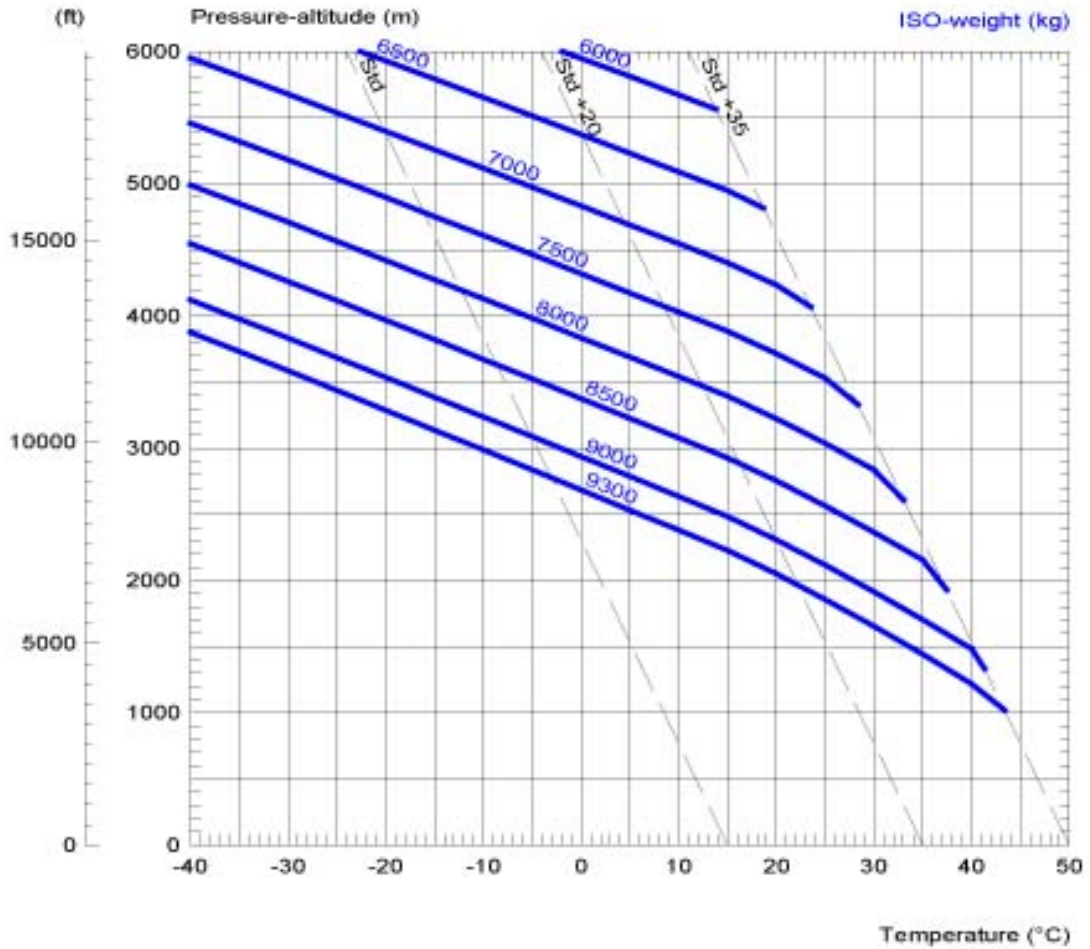
The performance charts presented hereafter apply to an aircraft as per the standard definition.

- Take-off weight in hover IGE, AEO 5 min (10 ft, on 2 engines at take-off power or maximum torque, no wind) Page 22
- Take-off weight in hover OGE, AEO 5 min (on 2 engines at take-off power or maximum torque, no wind) Page 23
- Maximum cruise speed (MCP, ISA) Page 24
- Maximum cruise speed (MCP, ISA + 20°C) Page 25
- Recommended cruise speed (ISA) Page 26
- Recommended cruise speed (ISA + 20°C) Page 27
- Rate of climb in oblique flight (on 2 engines at best climb speed, ISA) Page 28
- Rate of climb in oblique flight (on 2 engines at best climb speed, ISA + 20°C) Page 29
- Rate of climb in oblique flight (on 1 engine, OEI unlimited, ISA) Page 30
- Rate of climb in oblique flight (on 1 engine, OEI unlimited, ISA + 20°C) Page 31
- Hourly fuel consumption at maximum cruise speed Page 32
- Hourly fuel consumption at recommended cruise speed Page 33
- Take-off (clear heliport) - CAT A Page 34

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Take-off weight in hover IGE, AEO 5 min

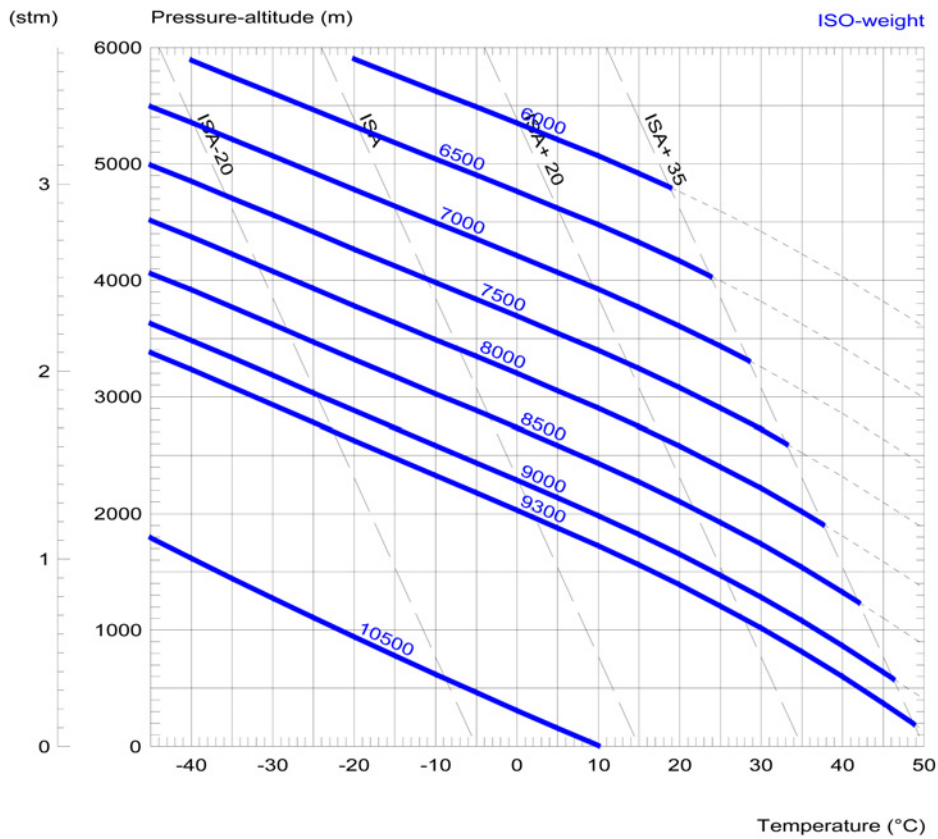
10 ft, on 2 engines at take-off power or maximum torque, no wind



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Take-off weight in hover OGE, AEO 5 min

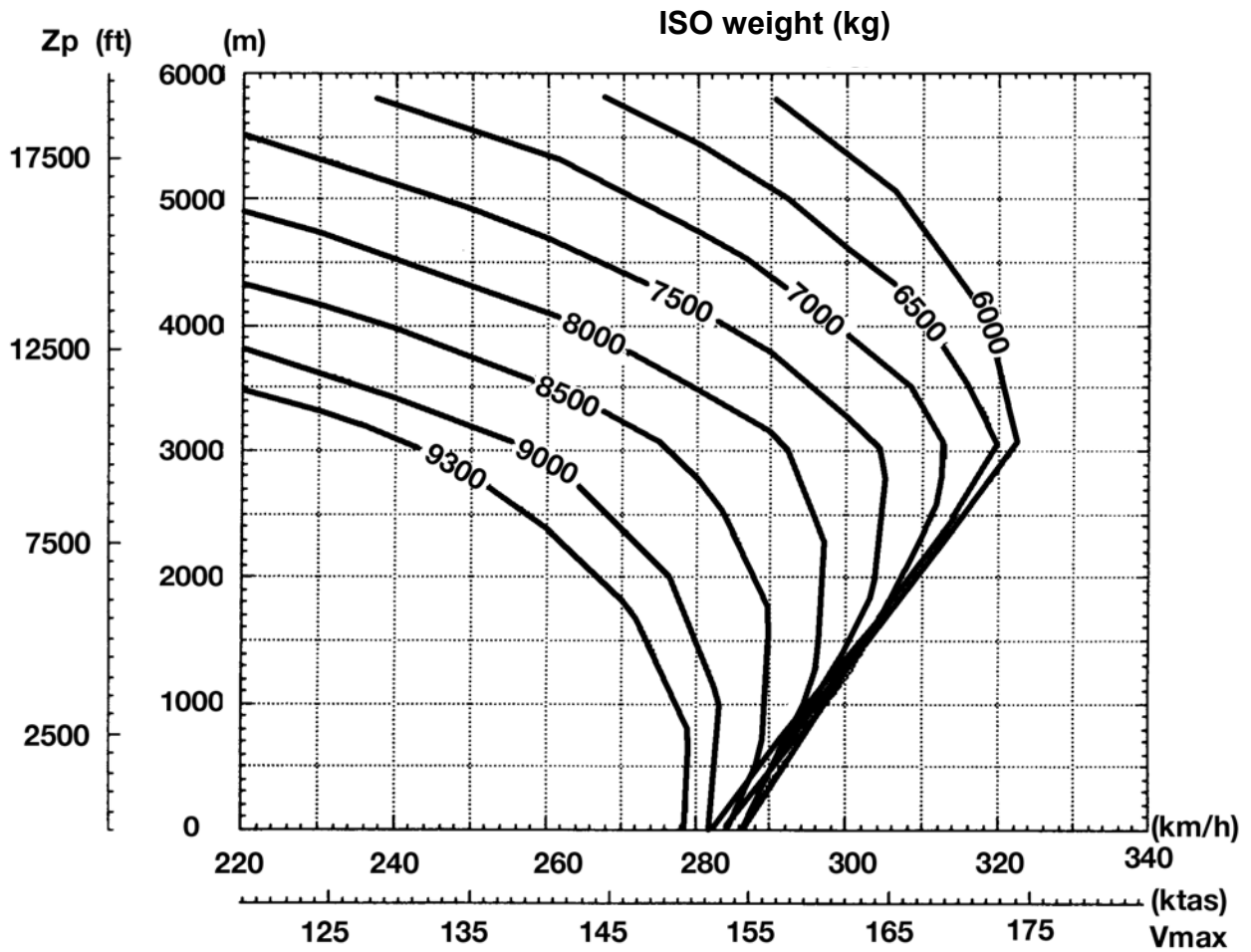
on 2 engines at take-off power or maximum torque, no wind



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Maximum cruise speed

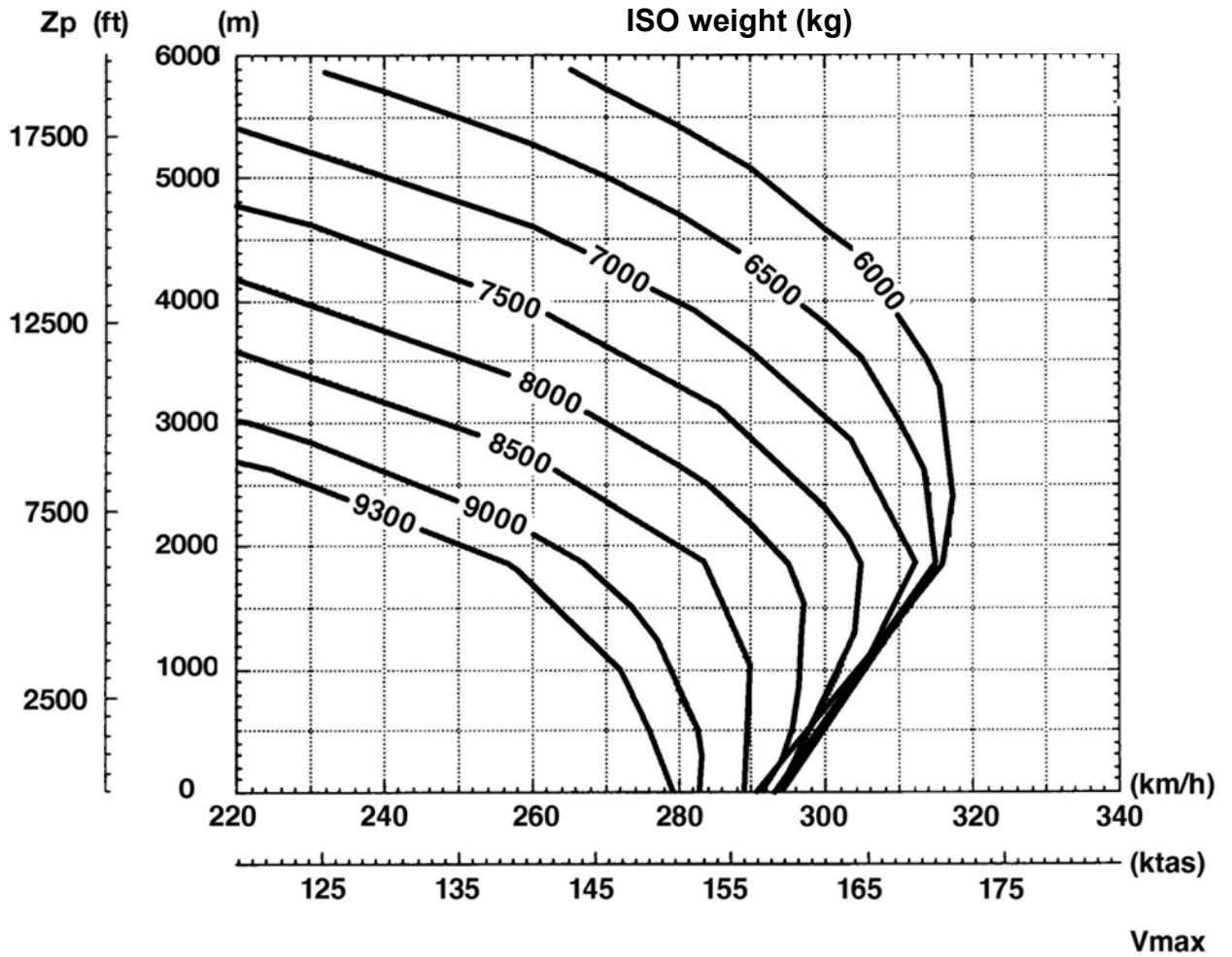
(MCP, ISA)



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Maximum cruise speed

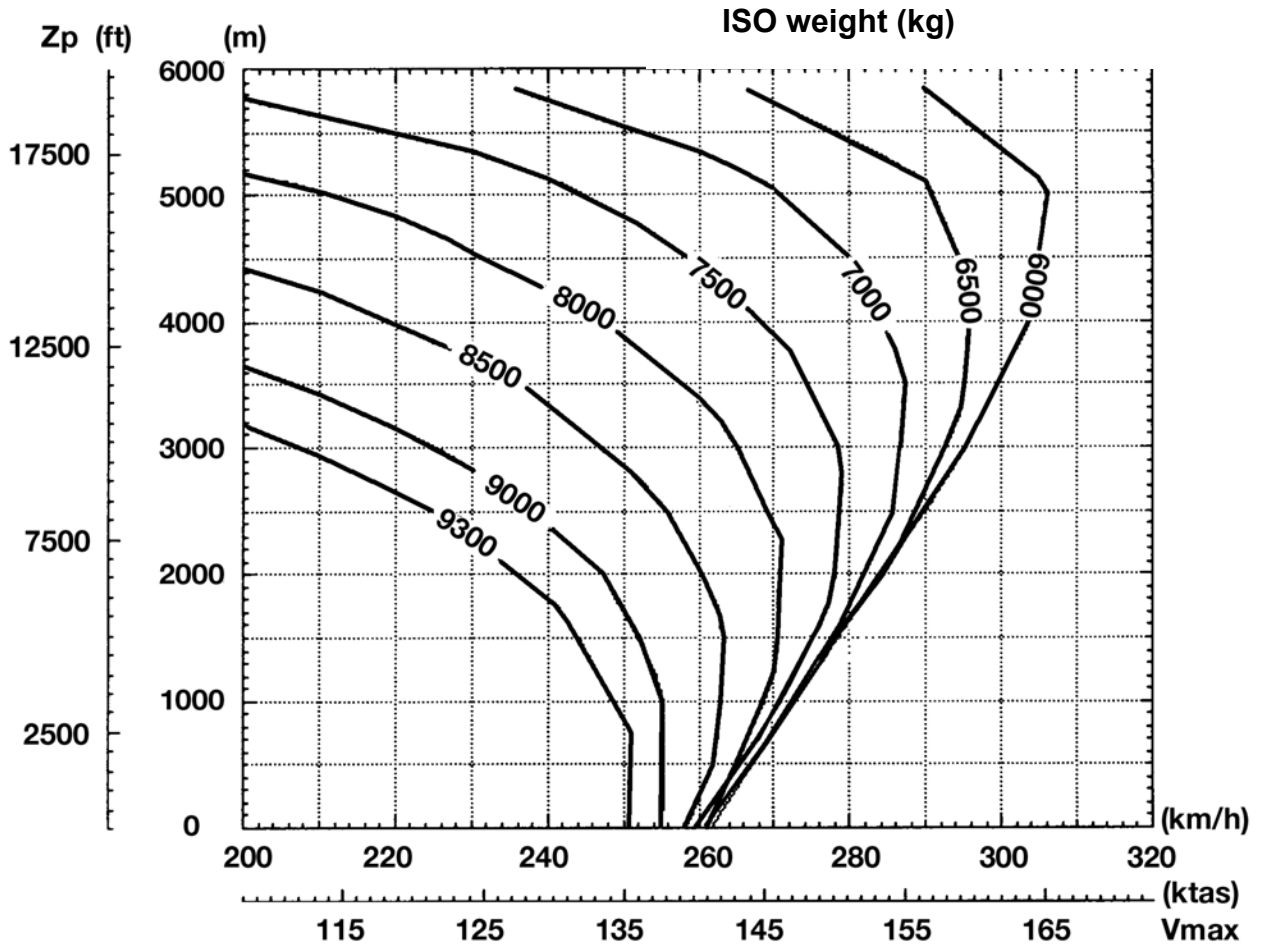
(MCP, ISA + 20°C)



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Recommended cruise speed

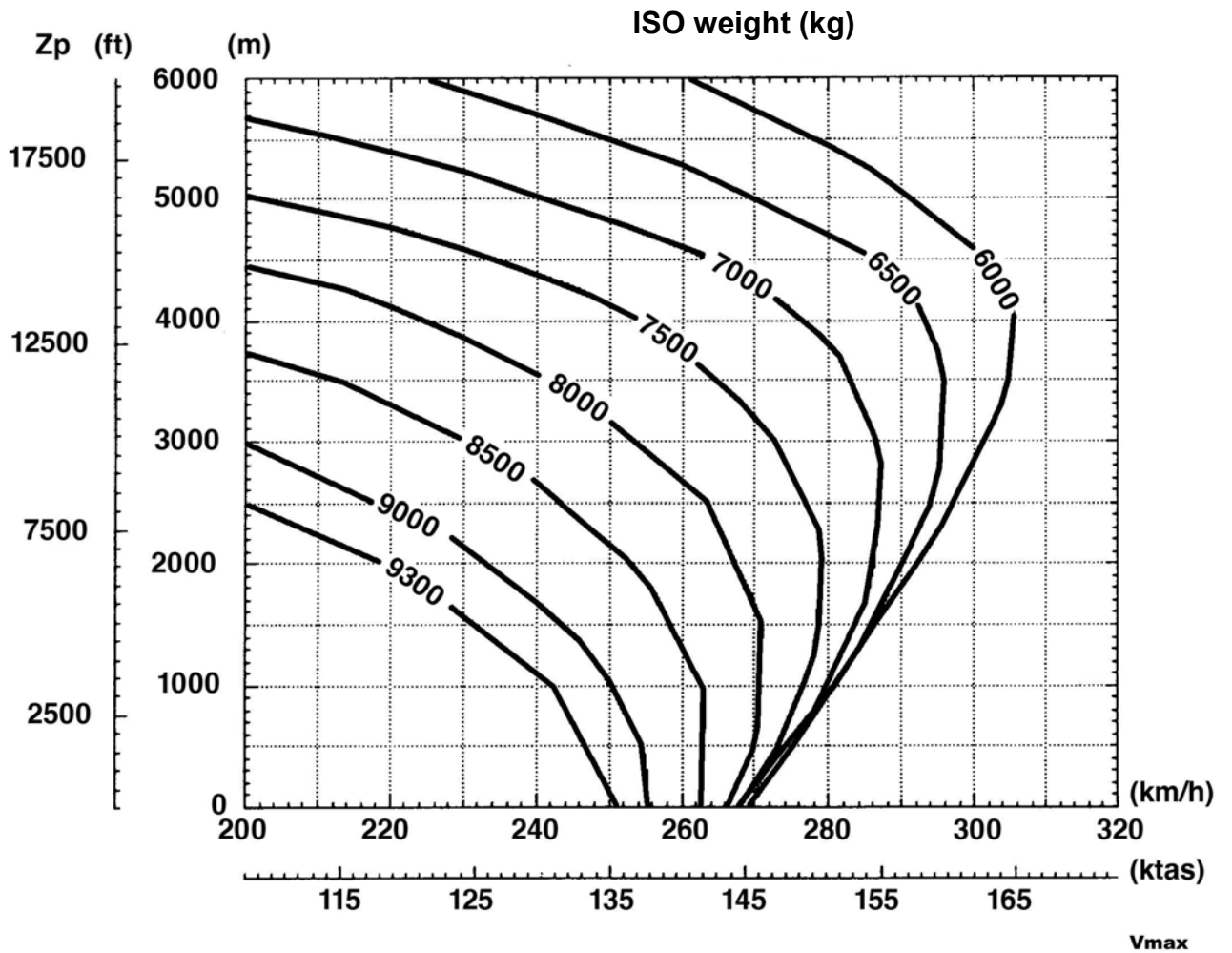
ISA



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Recommended cruise speed

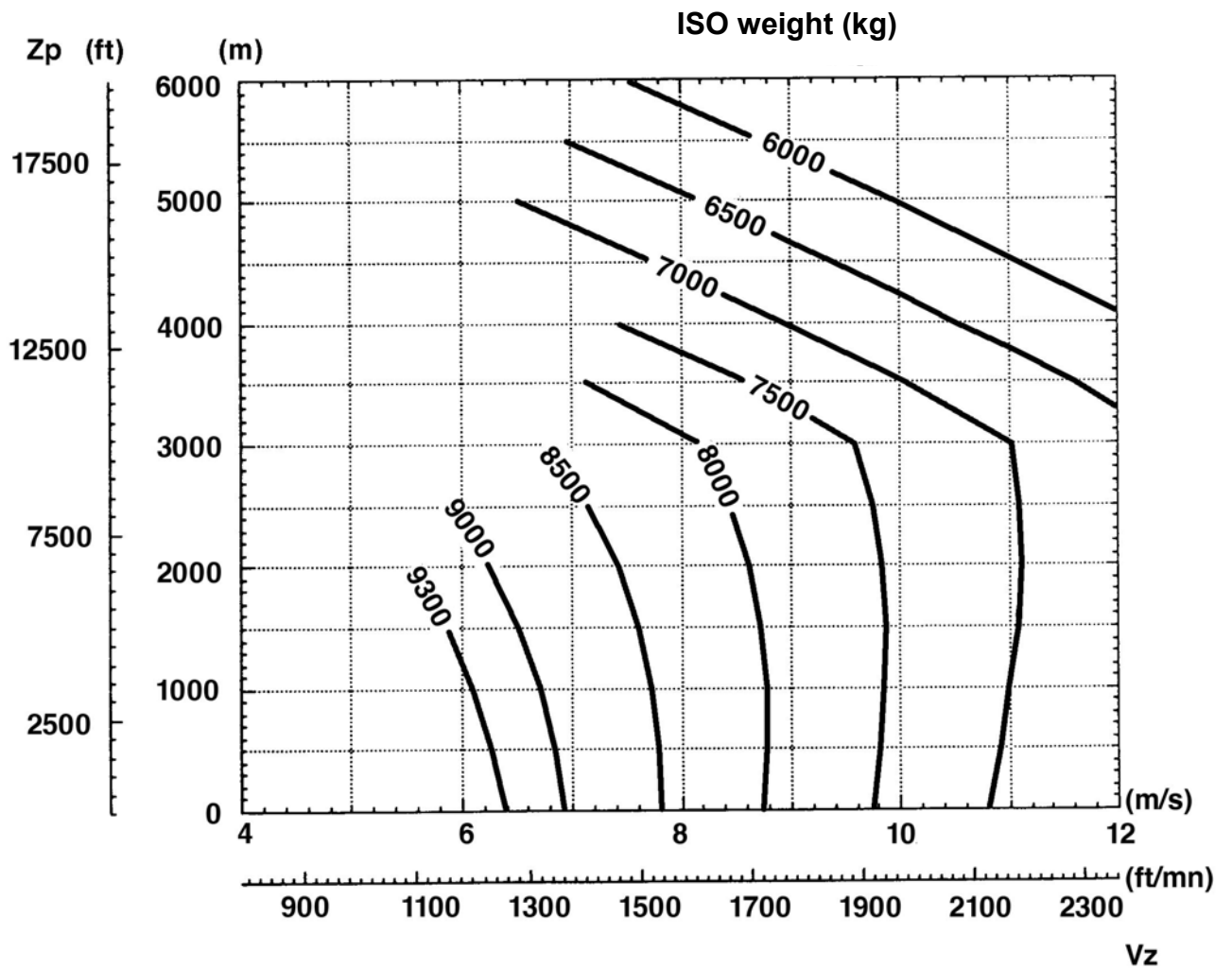
ISA + 20°C



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Rate of climb in oblique flight

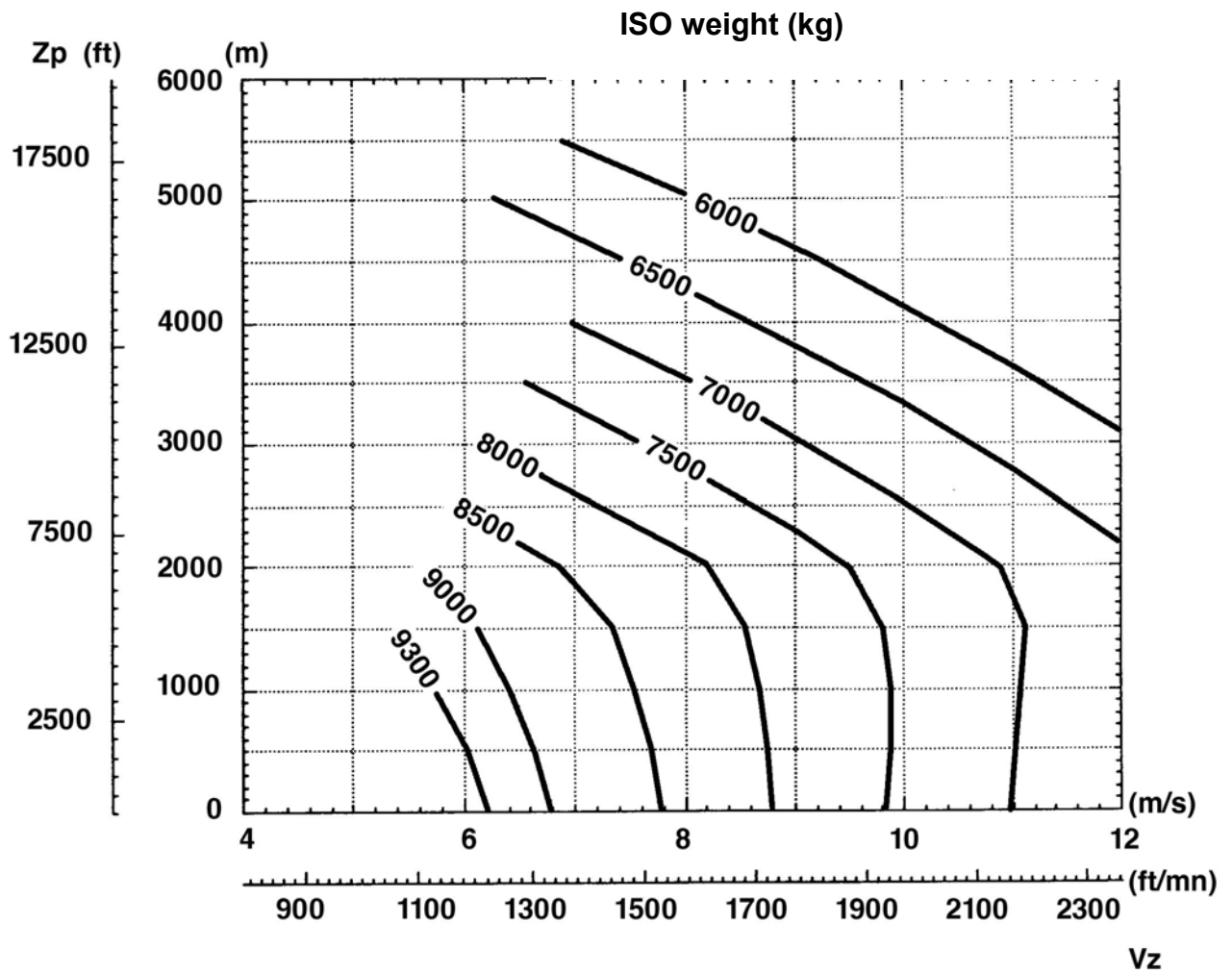
on 2 engines at best climb speed, ISA



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Rate of climb in oblique flight

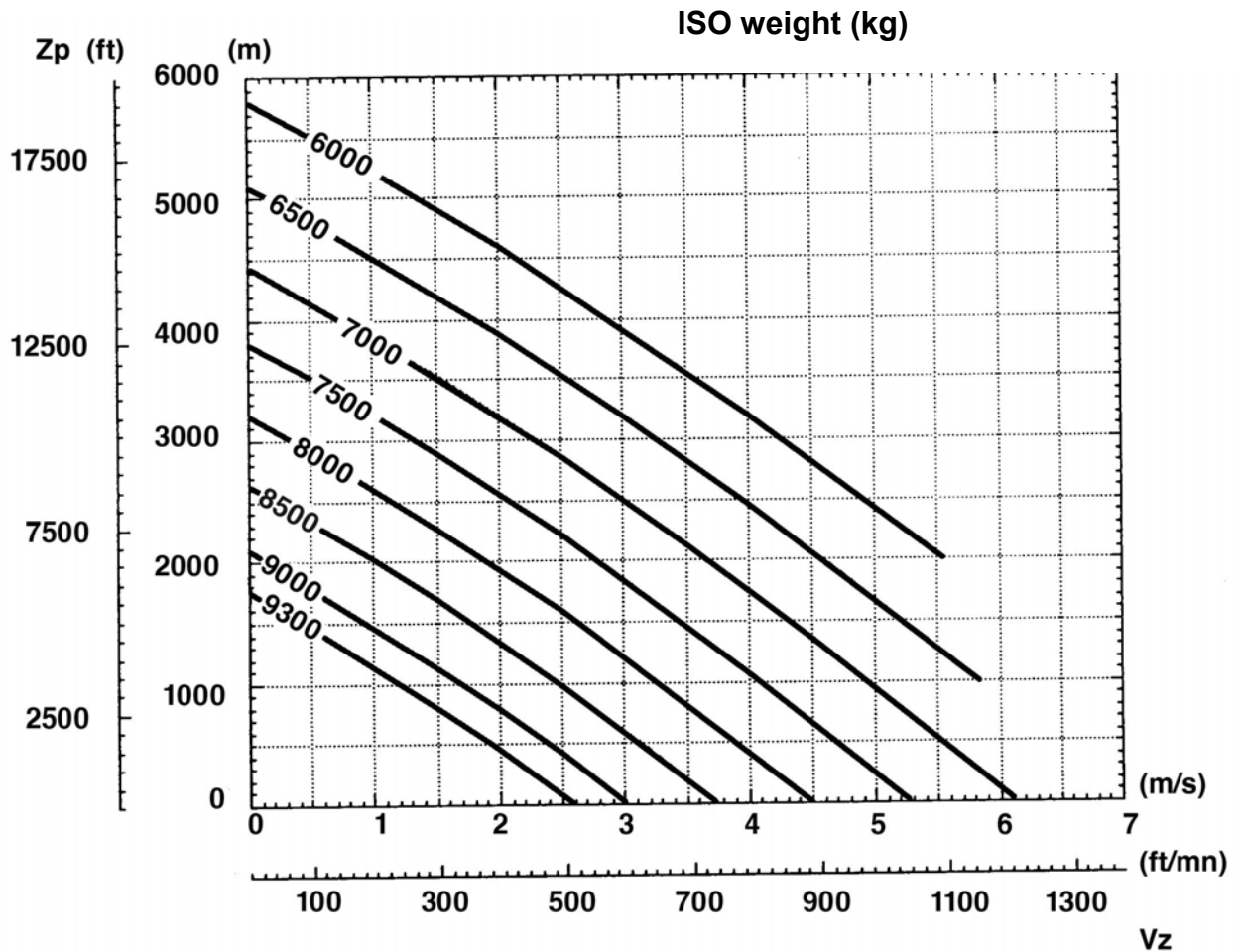
on 2 engines at best climb speed, ISA + 20°C



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Rate of climb in oblique flight

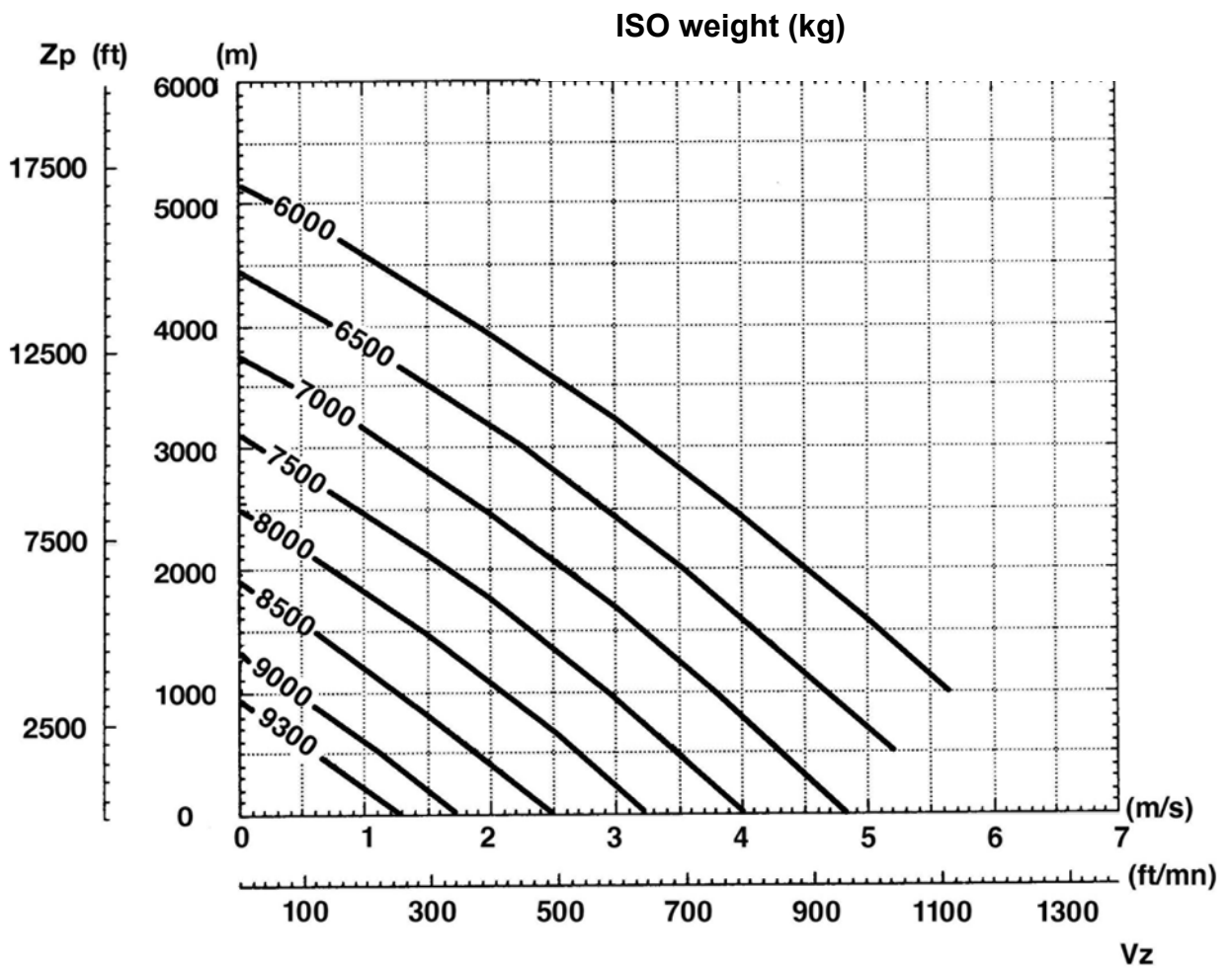
on 1 engine, OEI unlimited, ISA



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Rate of climb in oblique flight

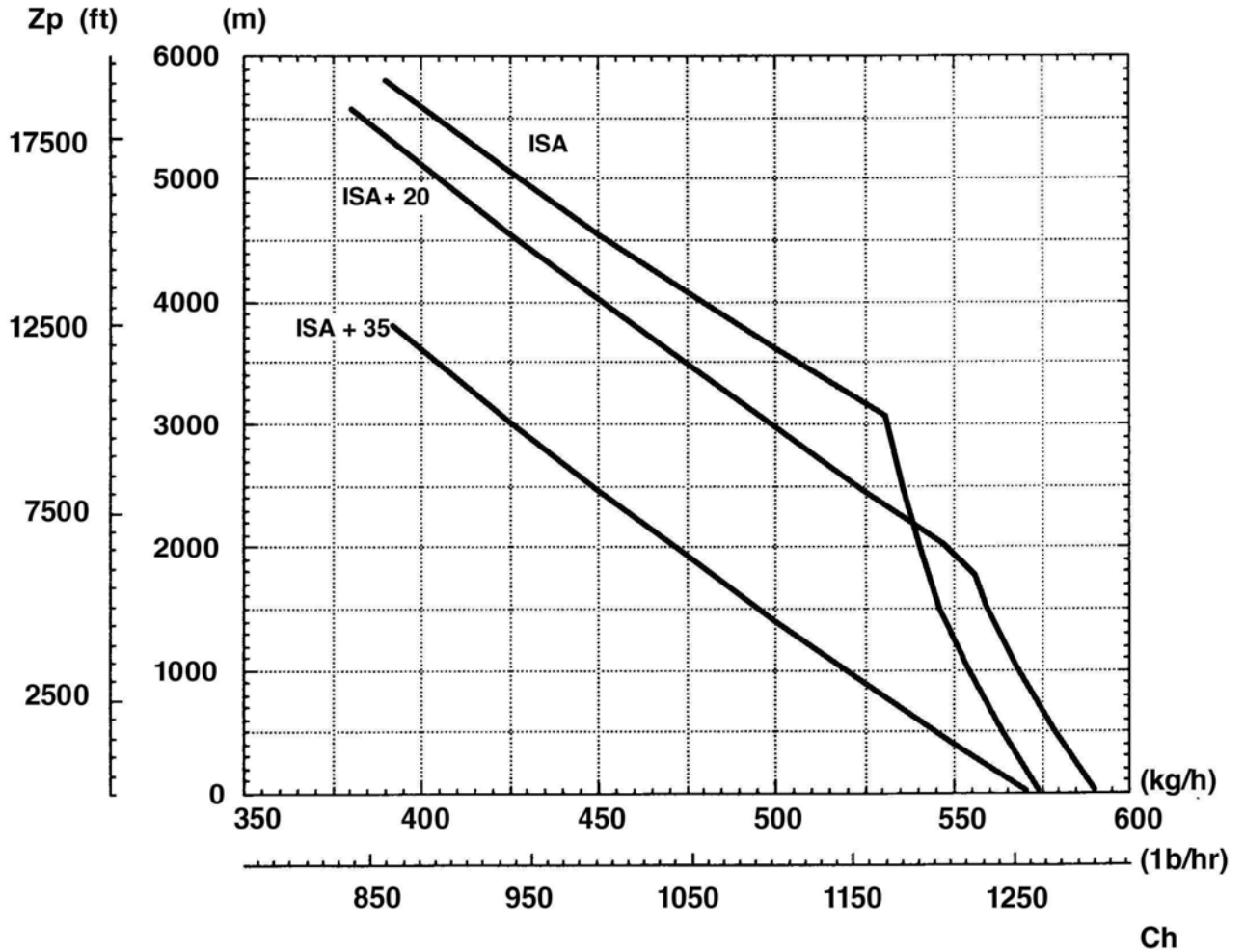
on 1 engine, OEI unlimited, ISA + 20°C



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Hourly fuel consumption at maximum cruise speed

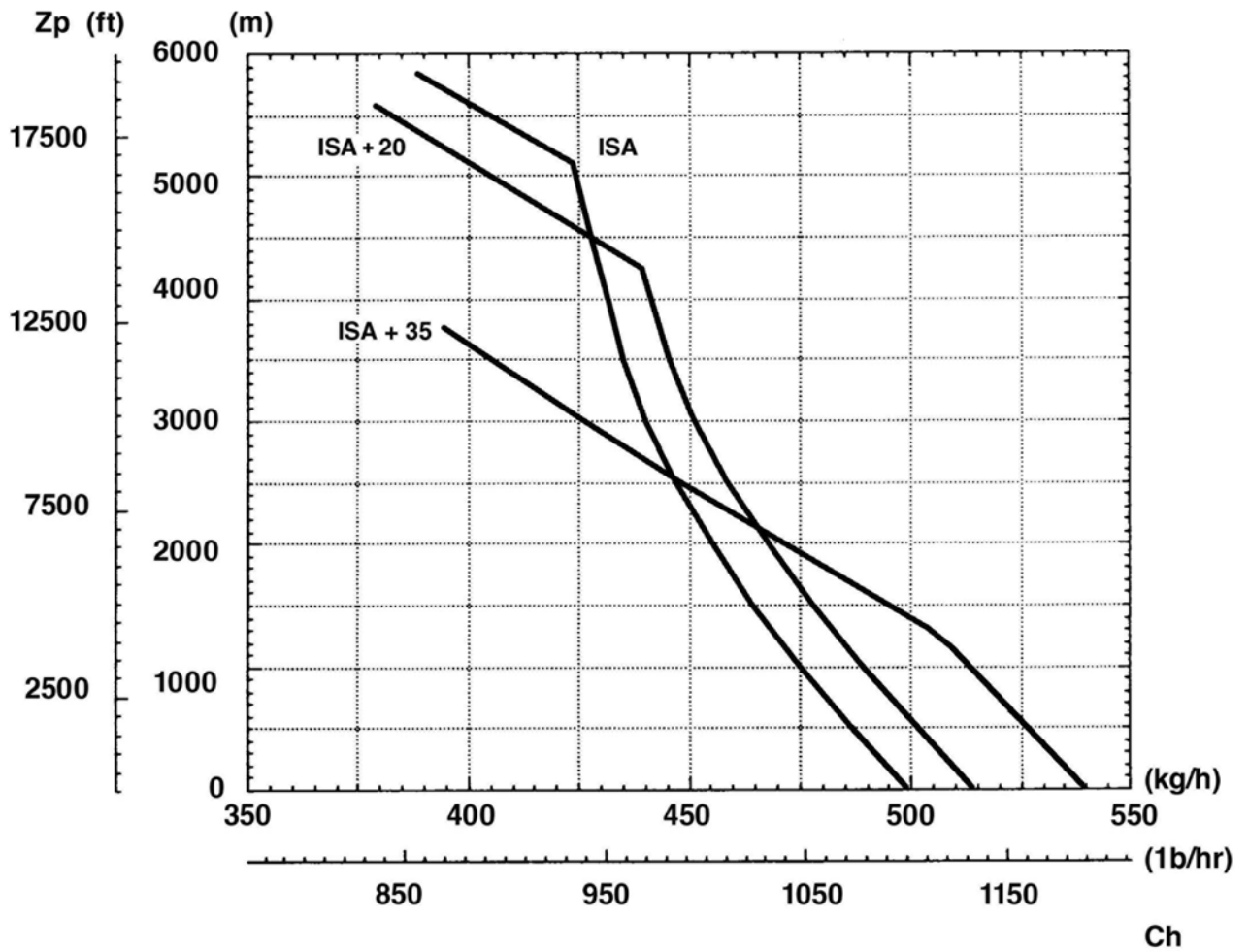
Maximum Continuous Power



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Hourly fuel consumption

At recommended cruise speed

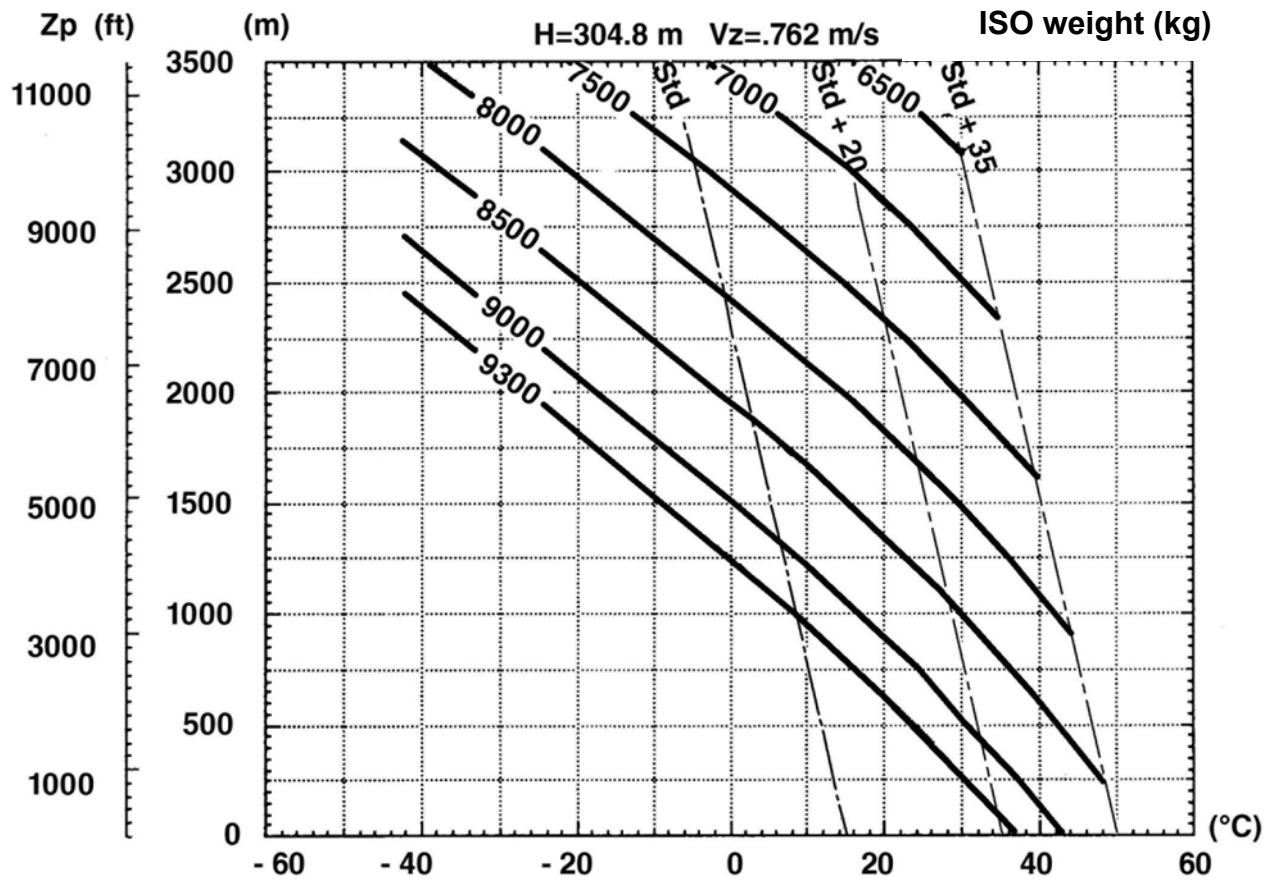


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Take-off (clear heliport)

CAT. A

(limited to D.A. = 7200 ft)



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