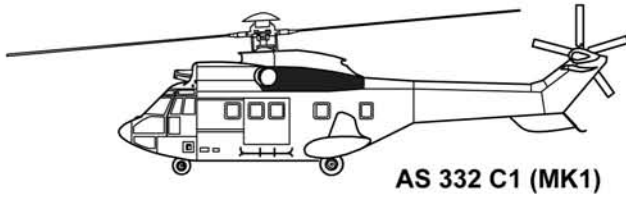




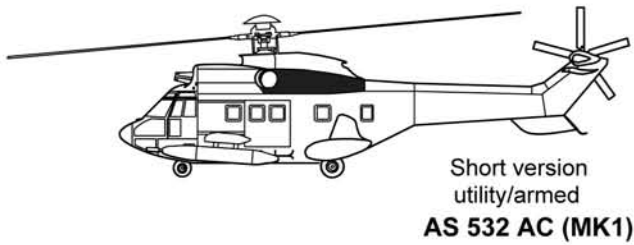
EUROCOPTER
AS332 L1

Technical
Data

SUPER PUMA (Civil Version)



COUGAR (Military Version)



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Manufacturers notice

Attention !

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

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1- General Characteristics

Lay-Out

- **Minimum crew**
(D.G.A.C Category A and B certification)
 - VFR : 1 pilot (< 20,000ft Pressure Altitude, with at least one lane of each autopilot channel engaged) else 2 pilots.
 - IFR : 2 pilots
- **Passenger transport** : up to 19 comfort seats
(in addition to the crew)
- **VIP transport** : up to 6 stretcher-patients + 9 seats
(in addition to the crew)

Weights

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

	kg	lb
■ Empty weight, standard aircraft (including engine oil)	4,500	9,920
■ Useful load	4,100	9,040
■ Maximum all-up weight	8,600	18,960
■ Maximum cargo-sling load	4,500	9,920
■ Maximum all-up weight in external load configuration	9,350	20,615

Power plant

2 Turbomeca Makila 1A1 turboshaft engines

Engine ratings

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

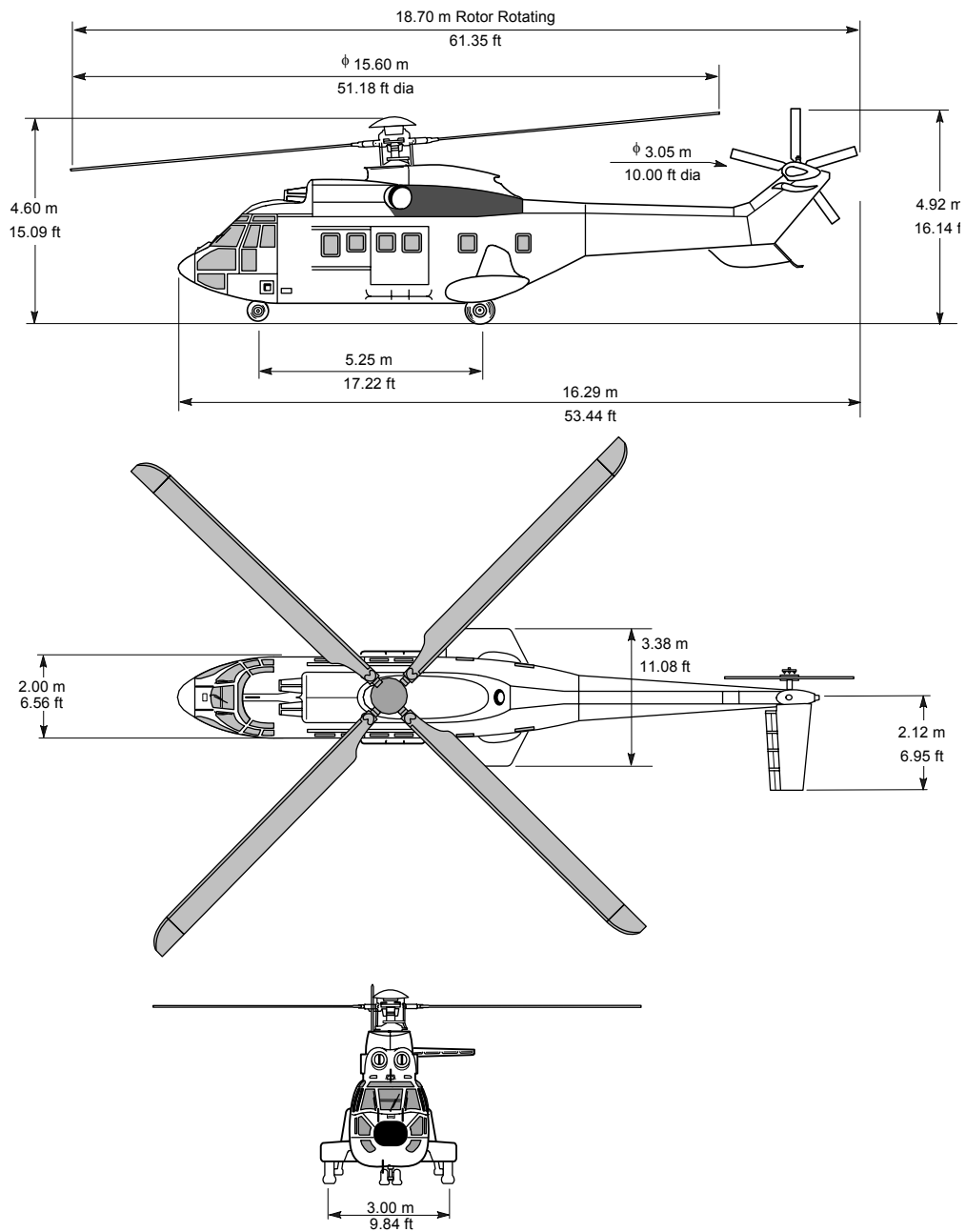
	kW	ch	shp
■ Maximum emergency power	1,400	1,902	1,877
■ Intermediate emergency power	1,330	1,807	1,783
■ Take-off power	1,357	1,845	1,819
■ Maximum continuous power	1,185	1,610	1,588

Usable Fuel capacities

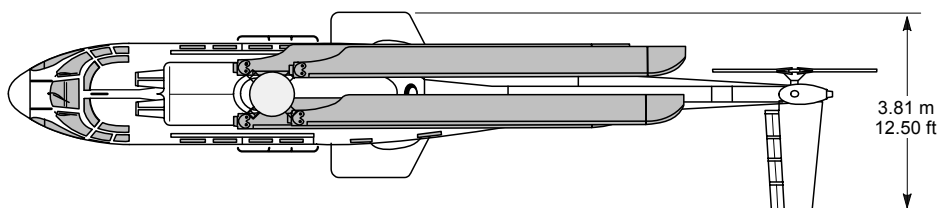
	litres	US gal.	kg	lb
■ Standard fuel tanks	2,020	535	1,595	3,516
■ Auxiliary fuel tanks (option)				
● Central fuel tank	321	85	254	560
● External fuel tanks	2 x 326	2 x 86	2 x 257	2 x 567
● Cabin fuel tank	600	158	474	1,045
● 1 to 5 ferrying fuel tanks	5 x 475	5 x 126	5 x 375	5 x 827

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Main dimensions



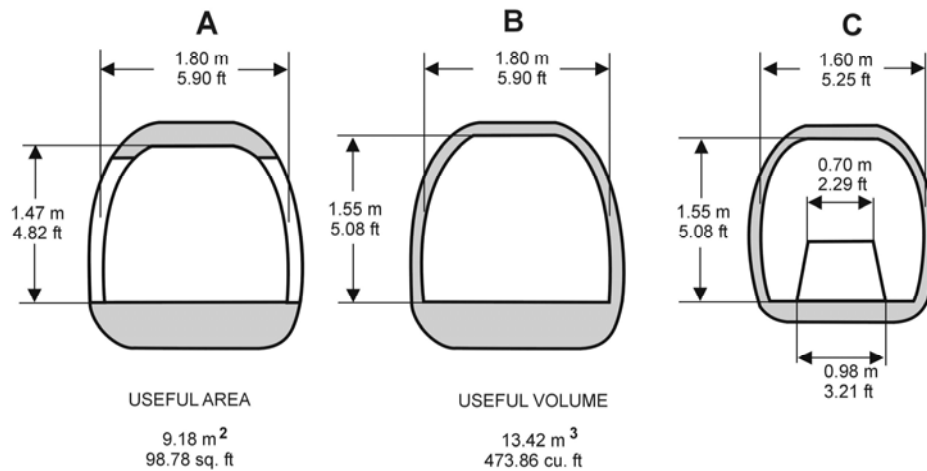
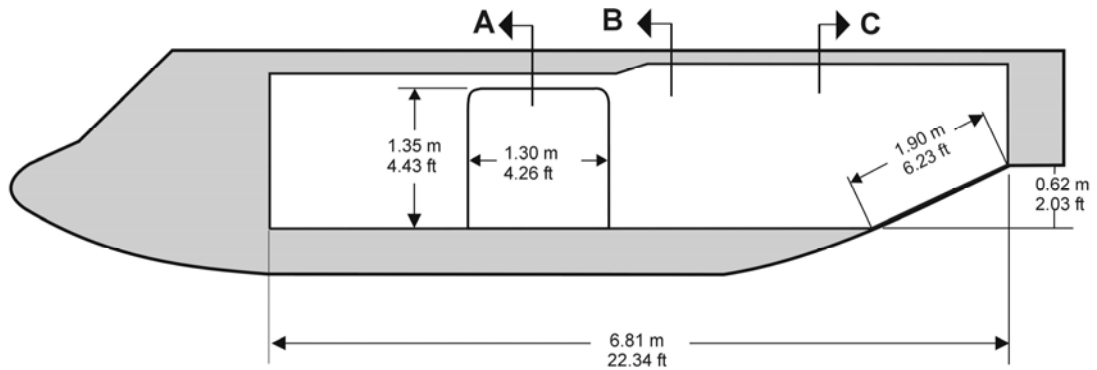
Dimensions with blades folded



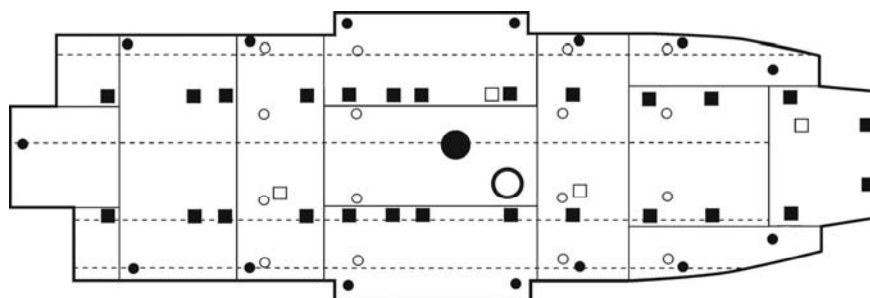
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Dimensions of compartments and accesses

Cabin main dimensions



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 AS332 L1 - Standard Aircraft Definition

GENERAL

- Crashworthy design fuselage including cockpit and cabin
- Mono-coque tail boom with tail rotor protection and stabilizer
- Polyurethane white paint re-inforced anti-corrosive treatment
- Front part of the tail boom arranged as a luggage compartment
- Fuselage upper part used as transmission deck
- Fuselage lower part fittable with the floatation gear and the crashworthy installation (tanks)
- 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
- 1 third crew man jump-seat with extensible safety belt.
- 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
- Adjustable front ventilation system
- Heating and ventilation diffusers
- Windshield demisting diffusers
- 2 adjustable heating and ventilation outlets
- Manual cock for selective pane demisting
- 2 jettisonable doors with door-stops
- Access to cabin with partitioning curtain

INSTRUMENTS

- 2 airspeed indicators
- 2 rate-of-climb indicators
- 2 altimeters
- 2 stop watches
- 3 gyro-horizons
- 1 pitch indicator
- 1 stand-by magnetic compass
- 2 SFIM CG 130 gyro compasses associated with 2 Astronautics 5" HSI/RMI
- 1 thermometer
- 2 torquemeter indicators
- 2 fuel pressure indicators
- 2 hydraulic pressure indicators (left and right)
- 1 auxiliary electropump hydraulic pressure indicator
- 1 MGB oil pressure indicator
- 1 MGB oil temperature indicator
- 1 MGB stand-by circuit oil pressure indicator
- 1 IGB oil temperature indicator
- 1 TGB oil temperature indicator
- 2 T4 temperature indicators
- 2 gas generator tachometers
- 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
- 1 autopilot control box
- 1 fuel circuit control and monitoring panel
- 2 fuel gauges
- 1 dual DC indicator
- 1 dual AC indicator
- 1 engine starting panel
- 1 landing gear position control and monitoring panel
- 2 heated pitot heads and 4 static vents
- 1 ventilation/heating system control panel
- Instruments units available in English units (Altimeter in feet and Airspeed indicator in kts); other units on request

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 in the sliding doors) for emergency exit
- 1 removable rear panel with jettisonable window
- 1 hand fire extinguisher, 1 axe and anti-smoke equipment
- Soundproofing upholstery (light beige padded cloth)
- Heating and ventilation (12 upper outlets adjustable for direction and flow, plus 4 lower bottoms adjustable for flow) with evacuation of stale air (2 outlets)
- Fittings for ambulance equipment, fixed parts 6 stretchers
- Floor hatch for cargo sling pole
- Stowage space for airborne kit

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POWER PLANT

- 2 Turbomeca Makila 1A1 1,902 ch (1,877 shp) turbine engines in two separate groups with own starting, feeding, lubricating, cooling and governing systems
- 1 fuel system of 2,020 litres (535 US gal.) usable capacity comprising 6 tanks, arranged in 2 groups, 4 booster pumps, 1 transfer pump and a low/high fuel level warning system. The pipes are of the crashworthy type
- Provisions for ferrying, central auxiliary and external tanks
- 2 engine bay fire-detection systems
- 1 two-cylinder selective fire-extinguishing system
- 2 engine chip detectors
- Engine air intakes protected against icing by grids and heating mats on the air intake stub frames
- 1 engine flushing device without removal of cowlings
- N.G. limiter for training

TRANSMISSION SYSTEM

- 1 main gearbox (MGB) on flexible mountings with chip detector 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 (TGB) with magnetic plug, oil sight gauge and temperature sensor
- 1 MGB oil cooling system
- 1 rotor brake
- 2 MGB bay fire detection circuits

ROTORS AND FLYING CONTROLS

- 1 main rotor with 4 composite-material blades equipped with gust and droop stops
- 1 anti-torque rotor with 5 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 duplex autopilot associated with two SFIM GV 76-2 vertical gyro units and one baroanemometric module

ELECTRICAL INSTALLATION

- 2 alternators (20/30 kVA, 115/200 V, 400 Hz)
- 1 cadmium-nickel battery (43 amp.-hr)
- 2 transformer-rectifiers (150 amp.)
- 1 stand-by battery
- 2 transformers (26 V, 400 Hz)
- 1 cockpit lighting system including :
 - white/blue pedestal instrument and overhead panel lighting (normal/stand-by)
 - red or white general lighting
 - 1 red and 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 landing light (600 W)
- 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

AIRBORNE KIT (*)

- 4 static vent blanks
- 3 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
- Tail rotor blade lock
- 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

Symbol  shown beside an item denotes some constraint (see table on page 15)














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				
 05-01020-A	05-01020-00-CI	CAA kit	7.5	16.5
05-21012-A	05-21012-00-FP	Wire strike protection system – Fixed Parts	3.0	6.6
 05-21012-A	05-21012-00-RP	Wire strike protection system – Removable Parts	9.9	21.8
05-22009-A	05-22009-00-CI	Multi-purpose engine air intakes (stretched version) ¹	62.0	136.7
 05-25012-A	05-25012-00-CI	Main rotor blades re-inforced sand-erosion protection strip (loose equipment, delivered uninstalled)	0.3	0.7
 05-25013-A	05-25013-00-CI	Tail rotor blades re-inforced sand-erosion protection strip (loose equipment, delivered uninstalled)	0.1	0.2
05-26005-A	05-26005-00-CI	Dinol AV30 re-inforced anti-corrosive treatment	14.0	30.9
05-31017-A	05-31017-00-CI	Cockpit green-tinted panes plus sun vizors with standard colourless panes in front of the pilot and copilot	3.4	7.5
05-31018-A	05-31018-00-CI	Cockpit green tinted upper panes plus sun vizors	3.4	7.5
05-31020-A	05-31020-00-CI	Cabin green tinted windows, for stretched versions	0.0	0.0
05-31022-A	05-31022-00-CI	Cabin metallized windows, for stretched versions	0.0	0.0
05-31024-A	05-31024-00-CI	2 observation bubble windows, on cabin plug in doors (1 on each side)	1.0	2.2
05-32006-A	05-32006-00-CI	Windshield washers	1.5	3.3
05-39001-A	05-39001-00-CI	Map holder	1.0	2.2
 05-42009-A	05-42009-00-CI	Air conditioning system, with pod mounted unit (to be used with Airline-type sound proofing)	100.0	220.5
 05-42009-A	05-42009-01-CI	Air conditioning system with pod mounted unit (to be used with VIP-type sound proofing)	82.7	182.3
 05-50004-A	05-50004-00-CI	Installation for flight in icing conditions	145.0	319.6
05-50005-A	05-50005-00-CI	Installation for flight in extreme cold weather	56.1	123.7
 05-50006-A	05-50006-00-CI	Kit for flight in limited icing conditions (submitted to approval by local Airworthiness Authority)	17.7	39.1
05-51002-A	05-51002-00-CI	De-iced cockpit center pane with wiper	11.0	24.3
05-52004-A	05-52004-00-CI	Goodrich Icing severity indicator	3.0	6.6
05-62008-A	05-62008-00-CI	Two 30/40 kVA alternators and 2nd electrical box ²	22.0	48.5
05-80004-A	05-80004-00-CI	Re-inforced floor with crashworthy fixations and crashworthy fuel tanks (longitudinal, transverse and rear)	85.8	189.2
 05-81010-A	05-81010-00-CI	Crashworthy central auxiliary fuel tank 318 l (84 US gal)	27.5	60.6
 05-81011-A	05-81011-00-CI	Crashworthy external additional fuel tanks 2 x 318 l (2 x 84 US gal)	134.5	296.5
 05-81022-A	05-81022-00-CI	Central auxiliary fuel tank 321 l (85 US gal)	21.9	48.3

¹ Mounted in production-line instead of the standard air intakes .










² Instead of the 20/30 kVA standard ones.

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Document reference	Commercial reference	Name	kg	lb
General equipment (continued)				
 05-81024-A	05-81024-00-CI	External additional fuel tanks 2 x 326 l (2 x 86US gal)	109.5	241.4
05-81025-A	05-81025-00-FP	Cabin additional fuel tank 600 l (159 US gal) – Fixed Parts	2.5	5.5
 05-81025-A	05-81025-00-RP	Cabin additional fuel tank 600 l (159 US gal) – Removable Parts	48.9	107.8
 05-82012-A	05-82012-00-CI	Pressure refuelling on the ground usable with additional external tanks, and jettisonable plug-in cabin doors	18.1	39.9
 05-82013-A	05-82013-00-CI	Pressure refuelling on the ground usable with maritime sponsons and floatation gear	12.4	27.3
 05-82014-A	05-82014-00-CI	Pressure refuelling on the ground usable with standard sponsons	15.6	34.4
05-82023-A	05-82023-00-CI	Fuel jettison system	9.0	19.8
05-84006-A	05-84006-00-RP	One ferrying fuel tank 475 l (126 US gal) 1 to 4 tanks per helicopter – Removable Parts	21.7	47.8
05-84007-A	05-84007-00-CI	5 th ferrying fuel tank 475 l (126 US gal)	35.5	78.3
05-86002-A	05-86002-00-CI	Fuel anti icing installation (- 45 °C)	0.0	0.0
05-92005-A	05-92005-00-FP	Main rotor blade folding system – Fixed Parts	6.4	14.1
 05-92005-A	05-92005-00-RP	Main rotor blade folding system – Removable Parts	50.9	112.2
05-93003-A	05-93003-00-CI	Naval mooring	3.7	8.2
05-93005-A	05-93005-00-CI	Lashing rings for main landing gear	1.0	2.2
05-94001-A	05-94001-00-CI	Main landing gear kneeling system ¹	4.5	9.9
Specific mission equipment				
 06-21012-A	06-21012-00-FP	Fixed hoist with variable speed 75 meters 272 kg (246 ft – 600 lb) – Fixed Parts	6.9	15.2
 06-21012-A	06-21012-00-RP	Fixed hoist with variable speed 75 meters 272 kg (246 ft – 600 lb) – Removable Parts	47.8	105.4
 06-21024-A	06-21024-00-FP	Goodrich 28V electrical hoist (290 ft, 600 lbs) – Fixed Parts	8.0	17.6
 06-21024-A	06-21024-00-RP	Goodrich 28V electrical hoist (290 ft, 600 lbs) – Removable Parts	92.5	203.9
 06-22002-A	06-22002-00-FP	Double hoist installation (Electrical Class 1 + Backup hydraulic Class 2) – Fixed Parts	Being Studied	
 06-22002-A	06-22002-00-RP	Double hoist installation (Electrical Class 1 + Backup hydraulic Class 2) – Removable Parts	Being Studied	
 06-25003-A	06-25003-00-CI	Drip tub	7.0	15.4

¹ Needs to procure the hydraulic circuits linkage sold as reference tolls n° 332A.95.4000.00.

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Document reference	Commercial reference	Name	kg	lb	
Specific mission equipment (continued)					
06-26005-A	06-26005-00-CI	External mirrors (recommended for sling)	6.5	14.3	
06-27015-A	06-27015-00-FP	Cargo sling with dynamometer (3 metric tons) - Fixed Parts 1 2	8.8	19.4	
	06-27015-00-RP	Cargo sling with dynamometer (3 metric tons) - Removable Parts	22.1	48.7	
06-27017-A	06-27017-00-FP	Cargo sling with dynamometer (4.5 metric tons) - Fixed Parts 3	4.1	9.0	
	06-27017-00-RP	Cargo sling with dynamometer (4.5 metric tons) - Removable Parts 3	23.9	52.7	
06-31017-A	06-31017-00-FP	Hailer installation (qty 1) – Fixed Parts	15.1	33.2	
	06-31017-00-RP	Hailer installation (qty 1) – Removable Parts	24.9	57.1	
06-42010-A	06-42010-00-CI	Second landing light 4	5.0	11.0	
06-42023-A	06-42023-00-CI	Fixed lights in maritime sponsons 4	3.5	7.7	
06-43004-A	06-43004-00-CI	Vertical light for hoisting and sling operation surveillance	6.7	14.8	
06-45014-A	06-45014-00-FP	Search light Spectrolab SX 16 – Fixed Parts	4.9	10.8	
	06-45014-00-RP	Search light Spectrolab SX 16 – Removable Parts	24.0	52.9	
	06-60003-A	06-60003-00-CI	2 Aerazur SR14 self-righting life rafts (with jettison control in cockpit and survival aid kits) in the sponsons 5	128.0	282.0
	06-61012-A	06-61012-00-CI	Emergency floatation gear usable without external fuel tanks	196.6	433.5
	06-61014-A	06-61014-00-FP	Emergency floatation gear usable with external fuel tanks – Fixed Parts	25.9	57.1
	06-61014-00-RP	Emergency floatation gear usable with external fuel tanks – Removable Parts	151.5	334.0	
06-64001-A	06-64001-00-CI	Sea anchor	2.9	6.4	
06-66003-A	06-66003-00-CI	Helicopter Emergency Egress Lighting (HEEL)	5.3	11.7	
06-67013-A	06-67013-00-CI	Serpe – IESM ELT Kannad 406 AF 6	2.1	4.6	
	06-67020-A	06-67020-00-CI	HR Smith serie 503 – ADELTA	7.6	16.8
06-68005-A	06-68005-00-CI	Dukane DK120 Underwater Acoustic Beacon	0.5	1.1	
06-69001-A	06-69001-00-CI	Automatic Voice Alarme Device (AVAD)	1.3	2.9	
06-70007-A	06-70007-00-CI	NVG compatible lighting for civil certification	Being Studied		
		FLIR	On Request		
		Fire Fighting “Bambi Bucket” BBT 7590 HD (2310 to 3300 litres)	On Request		
		Fire Fighting kit installation	On Request		

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

2 The 3 metric ton cargo sling fixed parts include:
 -The whole 4.5 metric ton cargo sling fixed parts
 -1 supplement for 3 metric ton cargo sling specific fixed parts

The customer choosing the 3 metric ton cargo sling has then automatically the 4.5 metric ton cargo sling fixed parts.




















3 Requires removable of the central auxiliary fuel if it has been selected by the user.

4 Required for JAR-OPS3 and CAA operations

5 Required for JAR-OPS3 operation if not selected as loose equipment

6 Acceptance by local airworthiness authorities to be checked.

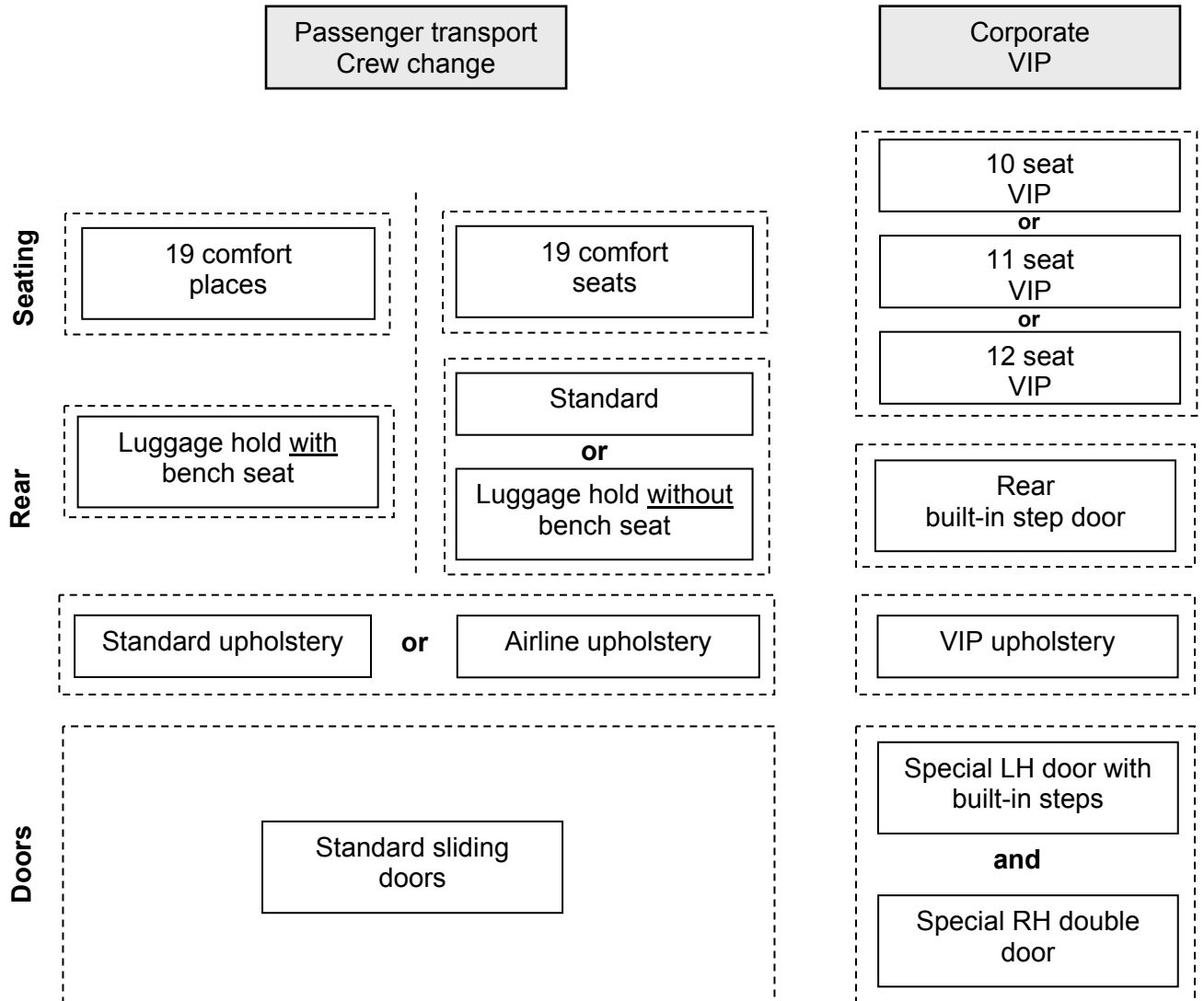
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Document reference	Commercial reference	Name	kg	lb
Interior layout				
07-10003-A	07-10003-00-CI	Pilot and copilot Airline seats Comfort type	12.4	27.3
07-10006-A	07-10006-00-CI	Pilot and copilot Airline seats Leader type	18.2	40.1
 07-25020-A	07-25020-00-CI	19 comfort places with 3-place rear bench seat 1	196.7	433.6
 07-25022-A	07-25022-00-CI	19 comfort seats installation without 3-place rear bench seat	209.2	461.2
 07-30009-A	07-30009-00-CI	“VIP” upholstery with enhanced sound proofing 2	210.0	463.0
07-30011-A	07-30011-00-CI	“Airline” upholstery with improved sound proofing	157.0	346.1
 07-50013-A	07-50013-00-CI	Special RH double door 2	7.0	15.4
 07-50015-A	07-50015-00-CI	Special LH door with built-in steps 2	15.0	33.1
07-50021-A	07-50021-00-CI	Rear built-in steps door 3	8.3	18.3
 07-60003-A	07-60003-00-CI	Enlarged luggage hold with one special step door with bench seat integrated in cabin bulkhead	48.6	107.1
 07-60004-A	07-60004-00-CI	Enlarged luggage hold with one special step door without bench seat integrated in cabin bulkhead	40.0	88.2
07-70001-A	07-70001-00-CI	Self Contained Medical Unit	210.4	463.9
 07-71014-A	07-71014-00-CI	Casualty carrying installation (without stretchers and seats)	6.9	15.2
 07-80004-A	07-80004-00-CI	VIP 11 seats with galley & toilet		
 07-80005-A	07-80005-00-CI	VIP 12-seats with galley & toilet	580.0	1278.7
 07-80012-A	07-80012-00-CI	VIP 10-seats with galley & toilet	555.0	1223.6
 07-82008-A	07-82008-00-CI	Retractable armrests 2		On Request
 07-82009-A	07-82009-00-CI	Lombar adjustment 2		On Request
 07-83001-A	07-83001-00-CI	Electric curtains 2		On Request
 07-84003-A	07-84003-00-CI	Customized inlaid wood table 2		On Request
 07-85007-A	07-85007-00-CI	Transparent central partition with storage compartment 2		On Request
 07-91001-A	07-91001-00-CI	Gold finishing of cabin visible metallic parts 2		On Request
 08-17018-A	08-17018-00-CI	CD player 2		On Request
 08-17019-A	08-17019-00-CI	CD / DVD player 2		On Request
08-17039-A	08-17039-00-CI	Power socket 12 VDC for electronic devices	0.0	0.0
		Satcom / Internet (Thuraya / Iridium / Inmarsat)		On Request
		Flight Information Display		On Request
		Air Ambulance Technology EMS quick conversion kit		On Request

- 1** Installation including 17 comfort seats and the cushions of the 3 bench seats integrated in the cabin bulkhead.
- 2** These optionals are indissociable of the VIP seat installation (see 07-80...)
- 3** Recommended in VIP configuration.

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Various Possibilities of the AS332 L1 Cabin Installation



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Document reference	Commercial reference	Name	kg	lb
Avionics				
08-00017-B	08-00017-01-CI	Civil uses minimum items of equipment Collins - VHF22A - # 1 Collins - VHF22A - # 2 Team TB31 ICS - Basic set : 3 control panels CP 1976 in cockpit Thales - AHV16-Radio altimeter with indicator IND 201 Collins - TDR94 – Transponder Elementary Surveillance (including flight identification) Collins - ADF 60 - ADF - #1 Collins – DME 42 - DME Collins - VIR 32 - VOR/ILS/MKR - #1 Collins - VIR 32 - VOR/ILS/MKR - #2 Shadin 8800T Altitude encoder	65.3	144.0
08-00018-C	08-00018-02-CI	Search & Rescue minimum items of equipment Collins - VHF22A - # 1 Collins - VHF22A - # 2 Team TB31 ICS - Basic set : 3 control panels CP 1976 in cockpit Team TB31 ICS - Complementary set : 4 th control panel CP 1976 in cabin Thales - AHV16-Radio altimeter with indicator IND 201 Thales - AHV16 - 2 nd Radio altimeter Collins - TDR94 – Transponder Elementary Surveillance (including 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 Telephonics - 1500 B - Search Radar with 9 inches display Canadian Marconi - CMA 3024 - GPS receiver Canadian Marconi - CMA 9000 - Flight Management System with SAR mode Collins - MFD255 - Displays (Qty 4) Marconi - ANV 353 - Doppler Radar Sagem Avionics – CDV 155 – Flight director coupler	On Request	

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.

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Document reference	Commercial reference	Name	kg	lb
Possible add-ons depending on mission needs				
08-10016-A	08-10016-00-CI	Collins - HF9X00 HF/SSB	24.3	53.6
08-12024-A	08-12024-00-CI	NAT - NPX138 VHF/FM - H	3.2	7.0
08-16052-A	08-16052-00-CI	Team TB31 ICS - Complementary set : 4th control panel CP 1976 in cabin	3.1	6.8
08-17002-A	08-17002-00-CI	Baker - M1060 - Passenger address	28.0	61.7
08-17012-A	08-17012-00-CI	Team - BA1920 - Passenger Interphone	1.6	3.5
08-24004-A	08-24004-01-CI	Collins - ADF 60 - ADF - #2	6.4	14.1
08-27019-A	08-27019-00-CI	Chelton - V/UHF SAR triple band homer	5.5	12.1
08-27021-A	08-27021-00-CI	Chelton - DF931-6 V/UHF DF	8.0	17.6
08-27031-A	08-27031-00-CI	Chelton System 7 - (121,5) VHF/AM dual frequency homer	5.4	11.9
08-31001-A	08-31001-00-CI	Telephonics 1400 C Weather Radar, with beacon mode	28.0	61.7
08-43004-A	08-43004-00-CI	Freeflight – TNL 2101 APPROACH + - GPS Navigation System linked to HSI and AFCS 1	3.5	7.7
08-73001-A	08-73001-00-CI	Sagem Avionics (ex-Sfim) - CDV 85 P3 - Flight Director Coupler	15.2	33.5
08-81014-A	08-81014-00-CI	Allied Signal CVFDR 2	35.0	77.2
08-83006-A	08-83006-00-CI	EUROHUMS 3 4	53.8	118.6

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** Delivered with EUROPE map. Subscription to be made by the customer.
- 2** Compatible with JAR OPS-3 regulation.
- 3** The tooling of the installation are not included in the price.
- 4** At least one ground station per helicopter base must be purchased.

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4- Table of Constraints

Note : This table only indicates the major compatibility restrictions between some usual installations. It is presented for information and as examples only.
 For a complete formal status of compatibility restrictions, the customized configuration must be built and submitted to Eurocopter for a precise check.

EXL Impossibility of simultaneous fitment of the fixed parts of 2 items of equipment

NSF Total or partial incompatibility of simultaneous fitment of the removal parts of two items of equipment

NSU Possibility of simultaneous fitment on the same aircraft, but impossible to use simultaneously

REQ Requires the fitting of

Document Reference	Commercial Reference	Installation	Nature of the Constraint				Commercial Reference	Installation	Document Reference
			EXL	NSF	NSU	REQ			
05-01020-A	05-01020-00-CI	CAA kit				X	06-42010-00-CI or 06-42023-00-CI	Second landing light or Fixed lights in maritime sponsons	06-42010-A or 06-42023-A
05-21012-A	05-21012-00-RP	Wire strike protection system – Removable Parts				X	05-21012-00-FP	Wire strike protection system – Fixed Parts	05-21012-A
05-25012-A	05-25012-00-CI	Main rotor blades re-inforced sand-erosion protection strip (loose equipment, delivered uninstalled)	X				05-50004-00-CI	Installation for flight in icing conditions	05-50004-A
05-25013-A	05-25013-00-CI	Tail rotor blades re-inforced sand-erosion protection strip (loose equipment, delivered uninstalled)	X				05-50004-00-CI	Installation for flight in icing conditions	05-50004-A
05-42009-A	05-42009-00-CI	Air conditioning system, with pod mounted unit (to be used with Airline-type sound proofing)				X	05-62008-00-CI	Two 30/40 kVA alternators and 2 nd electrical box	05-62008-A
05-42009-A	05-42009-01-CI	Air conditioning system with pod mounted unit (to be used with VIP-type sound proofing)				X	05-62008-00-CI	Two 30/40 kVA alternators and 2 nd electrical box	05-62008-A
05-50004-A	05-50004-00-CI	Installation for flight in icing conditions	X				05-25012-00-CI	Main rotor blades re-inforced sand-erosion protection strip (loose equipment, delivered uninstalled)	05-25012-A
			X				05-25013-00-CI	Tail rotor blades re-inforced sand-erosion protection strip (loose equipment, delivered uninstalled)	05-25013-A
						X	05-51002-00-CI	De-iced cockpit center pane with wiper	05-51002-A
						X	05-52004-00-CI	Goodrich Icing severity indicator	05-52004-A
						X	05-62008-00-CI	Two 30/40 kVA alternators and 2 nd electrical box	05-62008-A
					X	08-31001-00-CI	Telephonics 1400 C Weather Radar, with beacon mode	08-31001-A	
05-50006-A	05-50006-00-CI	Kit for flight in limited icing conditions (submitted to approval by local Airworthiness Authority)				X	05-52004-00-CI	Goodrich Icing severity indicator	05-52004-A

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Document Reference	Commercial Reference	Installation	Nature of the Constraint				Commercial Reference	Installation	Document Reference
			EXL	NSF	NSU	REQ			
05-81010-A	05-81010-00-CI	Crashworthy central auxiliary fuel tank (84 US gal.)		X			06-27017-00-RP	Cargo sling with dynamometer (4.5 metric tons) - Removable Parts	06-27017-A
05-81011-A	05-81011-00-CI	Crashworthy external additional fuel tanks (2 x 86 US gal.)	X				05-82013-00-CI	Pressure refuelling on the ground usable with maritime sponsons and floatation gear	05-82013-A
			X				05-82014-00-CI	Pressure refuelling on the ground usable with standard sponsons	05-81024-A
			X				06-60003-00-CI	2 Aerazur SR14 self-righting life rafts (with jettison control in cockpit and survival aid kits) in the sponsons	06-60003-A
			X				06-61012-00-CI	Emergency floatation gear usable without external fuel tanks	06-61012-A
05-81022-A	05-81022-00-CI	Central auxiliary fuel tank (85 US gal.)		X			06-27017-00-RP	Cargo sling with dynamometer (4.5 metric tons) - Removable Parts	06-27017-A
05-81024-A	05-81024-00-CI	External additional fuel tanks (2 x 86 US gal – (2 x 326 l)	X				05-82013-00-CI	Pressure refuelling on the ground usable with maritime sponsons and floatation gear	05-82013-A
			X				05-82014-00-CI	Pressure refuelling on the ground usable with standard sponsons	05-81024-A
			X				06-60003-00-CI	2 Aerazur SR14 self-righting life rafts (with jettison control in cockpit and survival aid kits) in the sponsons	06-60003-A
			X				06-61012-00-CI	Emergency floatation gear usable without external fuel tanks	06-61012-A
05-81025-A	05-81025-00-RP	Cabin additional fuel tank 600 l (159 US gal) – Removable Parts				X	05-81025-00-FP	Cabin additional fuel tank 600 l (159 US gal) – Fixed Parts	05-81025-A
05-82012-A	05-82012-00-CI	Pressure refuelling on the ground usable with additional external tanks, and jettisonable plug-in cabin door	X				05-82013-00-CI	Pressure refuelling on the ground usable with maritime sponsons and floatation gear	05-82013-A
			X				05-82014-00-CI	Pressure refuelling on the ground usable with standard sponsons	05-82014-A
			X				06-60003-00-CI	2 Aerazur SR14 self-righting life rafts (with jettison control in cockpit and survival aid kits) in the sponsons	06-60003-A
			X				06-61012-00-CI	Emergency floatation gear usable without external fuel tanks	06-61012-A
						X	05-81011-00-CI	Crashworthy external additional fuel tanks (2 x 86 US gal.)	05-81011-A
						X	05-81024-00-CI	External additional fuel tanks (2 x 86 US gal – (2 x 326 l)	05-81024-A
05-82013-A	05-82013-00-CI	Pressure refuelling on the ground usable with maritime sponsons and floatation gear	X				05-81011-00-CI	Crashworthy external additional fuel tanks (2 x 86 US gal.)	05-81011-A
			X				05-81024-00-CI	External additional fuel tanks (2 x 86 US gal – (2 x 326 l)	05-81024-A
			X				05-82012-00-CI	Pressure refuelling on the ground usable with additional external tanks, and jettisonable plug-in cabin door	05-82012-A
			X				05-82014-00-CI	Pressure refuelling on the ground usable with standard sponsons	05-82014-A
			X				06-61014-00-FP	Emergency floatation gear usable with external fuel tanks – Fixed Parts	06-61014-A
						X	06-61012-00-CI	Emergency floatation gear usable without external fuel tanks	06-61012-A

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Document Reference	Commercial Reference	Installation	Nature of the Constraint				Commercial Reference	Installation	Document Reference
			EXL	NSF	NSU	REQ			
05-82014-A	05-82014-00-CI	Pressure refuelling on the ground usable with standard sponsons	X				05-81011-00-CI	Crashworthy external additional fuel tanks (2 x 86 US gal.)	05-81011-A
			X				05-81024-00-CI	External additional fuel tanks (2 x 86 US gal – (2 x 326 l))	05-81024-A
			X				05-82012-00-CI	Pressure refuelling on the ground usable with additional external tanks, and jettisonable plug-in cabin door	05-82012-A
			X				05-82013-00-CI	Pressure refuelling on the ground usable with maritime sponsons and floatation gear	05-82013-A
			X				06-60003-00-CI	2 Aerazur SR14 self-righting life rafts (with jettison control in cockpit and survival aid kits) in the sponsons	06-60003-A
			X				06-61012-00-CI	Emergency floatation gear usable without external fuel tanks	06-61012-A
			X				06-61014-00-FP	Emergency floatation gear usable with external fuel tanks – Fixed Parts	06-61014-A
05-92005-A	05-92005-00-RP	Main rotor blade folding system – Removable Parts				X	05-92005-00-FP	Main rotor blade folding system – Fixed Parts	05-92005-A
06-21012-A	06-21012-00-FP	Fixed hydraulic hoist with variable speed 75 meters cable 272 kg (246 ft - 600 lb) - Fixed Parts	X				06-21024-00-FP	Goodrich 28V electrical hoist (290 ft, 600 lbs) – Fixed Parts	06-21024-A
	06-21012-00-RP	Fixed hydraulic hoist with variable speed 75 meters cable 272 kg (246 ft - 600 lb) - Removable Parts	X			X	06-21012-00-FP	Fixed hydraulic hoist with variable speed 75 meters cable 272 kg (246 ft - 600 lb) - Fixed Parts	06-21012-A
06-21024-A	06-21024-00-FP	Goodrich 28V electrical hoist (290 ft, 600 lbs) – Fixed Parts	X				06-21012-00-FP	Fixed hydraulic hoist with variable speed 75 meters cable 272 kg (246 ft - 600 lb) - Fixed Parts	06-21012-A
			X				06-22002-00-FP	Double hoist installation (Electrical class 1 + Back-up hydraulic Class 2) – Fixed Parts	06-22002-A
	06-21024-00-RP	Goodrich 28V electrical hoist (290 ft, 600 lbs) – Removable Parts				X	06-21024-00-FP	Goodrich 28V electrical hoist (290 ft, 600 lbs) – Fixed Parts	06-21024-A
06-22002-A	06-22002-00-FP	Double hoist installation (Electrical class 1 + Back-up hydraulic Class 2) – Fixed Parts	X				06-21012-00-FP	Fixed hydraulic hoist with variable speed 75 meters cable 272 kg (246 ft - 600 lb) - Fixed Parts	06-21012-A
			X				06-21024-00-FP	Goodrich 28V electrical hoist (290 ft, 600 lbs) – Fixed Parts	06-21024-A
	06-22002-00-RP	Double hoist installation (Electrical class 1 + Back-up hydraulic Class 2) – Removable Parts				X	06-22002-00-FP	Double hoist installation (Electrical class 1 + Back-up hydraulic Class 2) – Fixed Parts	06-22002-A
06-25003-A	06-25003-00-CI	Drip tub		X			06-27017-00-RP	Cargo sling with dynamometer (4.5 metric tons) – Removable Parts	06-27017-A
				X			07-25020-00-CI	19 comfort places with 3-place rear bench seat	07-25020-A
				X			07-25022-00-CI	19 comfort places without 3-place rear bench seat	07-25022-A
				X			07-71014-00-CI	Casualty-carrying installation (without stretchers and seats)	07-71014-A

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Document Reference	Commercial Reference	Installation	Nature of the Constraint				Commercial Reference	Installation	Document Reference
			EXL	NSF	NSU	REQ			
06-27015-A	06-27015-00-RP	Cargo sling with dynamometer (3 metric tons) – Removable Parts		X			06-27017-00-RP	Cargo sling with dynamometer (4.5 metric tons) – Removable Parts	06-27017-A
						X	06-27015-00-RP	Cargo sling with dynamometer (3 metric tons) – Removable Parts	06-27015-A
06-27017-A	06-27017-00-RP	Cargo sling with dynamometer (4.5 metric tons) – Removable Parts		X			05-81010-00-CI	Crashworthy central auxiliary fuel tank (84 US gal.)	05-81010-A
				X			05-81022-00-CI	Central auxiliary fuel tank (85 US gal.)	05-81022-A
				X			06-25003-00-CI	Drip tub	06-25003-A
				X			06-27015-00-RP	Cargo sling with dynamometer (3 metric tons) – Removable Parts	06-27015-A
				X			07-25020-00-CI	19 comfort places with 3-place rear bench seat	07-25020-A
				X			07-25022-00-CI	19 comfort places without 3-place rear bench seat	07-25022-A
				X			07-71014-00-CI	Casualty-carrying installation (without stretchers and seats)	07-71014-A
						X	06-27017-00-FP	Cargo sling with dynamometer (4.5 metric tons) – Fixed Parts	06-27017-A
06-31017-A	06-31017-00-RP	Hailer installation (qty 1) – Removable Parts				X	06-31017-00-FP	Hailer installation (qty 1) – Fixed Parts	06-31017-A
06-45014-A	06-45014-00-RP	Search light Spectrolab SX 16 – Removable Parts				X	06-45014-00-FP	Search light Spectrolab SX 16 – Fixed Parts	06-45014-A
06-60003-A	06-60003-00-CI	2 Aerazur SR14 self-righting life rafts (with jettison control in cockpit and survival aid kits) in the sponsons	X				05-81011-00-CI	Crashworthy external additional fuel tanks (2 x 86 US gal.)	05-81011-A
			X				05-81024-00-CI	External additional fuel tanks (2 x 86 US gal – (2 x 326 l))	05-81024-A
			X				05-82012-00-CI	Pressure refuelling on the ground usable with additional external tanks, and jettisonable plug-in cabin door	05-82012-A
			X				05-82014-00-CI	Pressure refuelling on the ground usable with standard sponsons	05-82014-A
			X				06-61014-00-FP	Emergency floatation gear usable with external fuel tanks – Fixed Parts	06-61014-A
				X	06-61012-00-CI	Emergency floatation gear usable without external fuel tanks	06-61012-A		
06-61012-A	06-61012-00-CI	Emergency floatation gear usable without external fuel tanks	X				05-81011-00-CI	Crashworthy external additional fuel tanks (2 x 86 US gal.)	05-81011-A
			X				05-81024-00-CI	External additional fuel tanks (2 x 86 US gal – (2 x 326 l))	05-81024-A
			X				05-82012-00-CI	Pressure refuelling on the ground usable with additional external tanks, and jettisonable plug-in cabin door	05-82012-A
			X				05-82014-00-CI	Pressure refuelling on the ground usable with standard sponsons	05-82014-A
			X				06-61014-00-FP	Emergency floatation gear usable with external fuel tanks – Fixed Parts	06-61014-A

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Document Reference	Commercial Reference	Installation	Nature of the Constraint				Commercial Reference	Installation	Document Reference
			EXI	NSF	NSU	REQ			
06-61014-A	06-61014-00-FP	Emergency floatation gear usable with external fuel tanks – Fixed Parts	X				05-82013-00-CI	Pressure refuelling on the ground usable with maritime sponsons and floatation gear	05-82013-A
			X				05-82014-00-CI	Pressure refuelling on the ground usable with standard sponsons	05-82014-A
			X				06-60003-00-CI	2 Aerazur SR14 self-righting life rafts (with jettison control in cockpit and survival aid kits) in the sponsons	06-60003-A
			X				06-61012-00-CI	Emergency floatation gear usable without external fuel tanks	06-61012-A
	06-61014-00-RP	Emergency floatation gear usable with external fuel tanks – Removable Parts				X	06-61014-00-FP	Emergency floatation gear usable with external fuel tanks – Fixed Parts	06-61014-A
06-67020-A	06-67020-00-CI	HR Smith serie 503 – ADEL T	X				08-10016-00-CI	Collins - HF9X00 HF/SSB	08-10016-A
07-25020-A	07-25020-00-CI	19 comfort places with 3-place rear bench seat	X				07-25022-00-CI	19 comfort seats without 3-place rear bench seat	07-25022-A
			X				07-60004-00-CI	Enlarged luggage hold with one special step door without bench seat integrated in cabin bulkhead	07-60004-A
			X				07-80004-00-CI	VIP 11 seats with galley & toilet	07-80004-A
			X				07-80005-00-CI	VIP 12-seats with galley & toilet	07-80005-A
			X				07-80012-00-CI	VIP 10-seats with galley & toilet	07-80012-A
				X			06-25003-00-CI	Drip tub	06-25003-A
				X			07-71014-00-CI	Casualty carrying installation (without stretchers and seats)	07-71014-A
					X			07-60003-00-CI	Enlarged luggage hold with one special step door with bench seat integrated in cabin bulkhead
07-25022-A	07-25022-00-CI	19 comfort seats without 3-place rear bench seat	X				07-25020-00-CI	19 comfort places with 3-place rear bench seat	07-25020-A
			X				07-60003-00-CI	Enlarged luggage hold with one special step door with bench seat integrated in cabin bulkhead	07-60003-A
			X				07-80004-00-CI	VIP 11 seats with galley & toilet	07-80004-A
			X				07-80005-00-CI	VIP 12-seats with galley & toilet	07-80005-A
			X				07-80012-00-CI	VIP 10-seats with galley & toilet	07-80012-A
				X			06-25003-00-CI	Drip tub	06-25003-A
				X			07-71014-00-CI	Casualty carrying installation (without stretchers and seats)	07-71014-A
07-30009-A	07-30009-00-CI	"VIP" upholstery with enhanced sound proofing				X	07-80004-00-CI	VIP 11 seats with galley & toilet	07-80004-A
						X	07-80005-00-CI	VIP 12-seats with galley & toilet	07-80005-A
						X	07-80012-00-CI	VIP 10-seats with galley & toilet	07-80012-A
07-50013-A	07-50013-00-CI	Special RH double door				X	07-80004-00-CI	VIP 11 seats with galley & toilet	07-80004-A
						X	07-80005-00-CI	VIP 12-seats with galley & toilet	07-80005-A
						X	07-80012-00-CI	VIP 10-seats with galley & toilet	07-80012-A

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			EXL	NSF	NSU	REQ			
07-50015-A	07-50015-00-CI	Special LH door with built-in steps				X	07-80004-00-CI or 07-80005-00-CI or 07-80012-00-CI	VIP 11 seats with galley & toilet or VIP 12-seats with galley & toilet or VIP 10-seats with galley & toilet	07-80004-A or 07-80005-A or 07-80012-A
07-60003-A	07-60003-00-CI	Enlarged luggage hold with one special step door with bench seat integrated in cabin bulkhead	X				07-25022-00-CI	19 comfort seats without 3-place rear bench seat	07-25022-A
07-60004-A	07-60004-00-CI	Enlarged luggage hold with one special step door without bench seat integrated in cabin bulkhead	X				07-25020-00-CI	19 comfort places with 3-place rear bench seat	07-25020-A
07-71014-A	07-71014-00-CI	Casualty carrying installation (without stretchers and seats)	X				07-80004-00-CI 07-80005-00-CI 07-80012-00-CI 06-25003-00-CI 06-27017-00-RP 07-25020-00-CI 07-25022-00-CI	VIP 11 seats with galley & toilet VIP 12-seats with galley & toilet VIP 10-seats with galley & toilet Drip tub Cargo sling with dynamometer (4.5 metric tons) – Removable Parts 19 comfort places with 3-place rear bench seat 19 comfort seats without 3-place rear bench seat	07-80004-A 07-80005-A 07-80012-A 06-25003-A 06-27017-A 07-25020-A 07-25022-A
07-80004-A	07-80004-00-CI	VIP 11 seats with galley & toilet	X				07-25020-00-CI 07-25022-00-CI 07-71014-00-CI 07-80005-00-CI 07-80012-00-CI	19 comfort places with 3-place rear bench seat 19 comfort seats without 3-place rear bench seat Casualty carrying installation (without stretchers and seats) VIP 12-seats with galley & toilet VIP 10-seats with galley & toilet	07-25020-A 07-25022-A 07-71014-A 07-80005-A 07-80012-A
07-80005-A	07-80005-00-CI	VIP 12-seats with galley & toilet	X				07-25020-00-CI 07-25022-00-CI 07-71014-00-CI 07-80004-00-CI 07-80012-00-CI	19 comfort places with 3-place rear bench seat 19 comfort seats without 3-place rear bench seat Casualty carrying installation (without stretchers and seats) VIP 11 seats with galley & toilet VIP 10-seats with galley & toilet	07-25020-A 07-25022-A 07-71014-A 07-80004-A 07-80012-A
07-80012-A	07-80012-00-CI	VIP 10-seats with galley & toilet	X				07-25020-00-CI 07-25022-00-CI 07-71014-00-CI 07-80004-00-CI 07-80005-00-CI	19 comfort places with 3-place rear bench seat 19 comfort seats without 3-place rear bench seat Casualty carrying installation (without stretchers and seats) VIP 11 seats with galley & toilet VIP 12-seats with galley & toilet	07-25020-A 07-25022-A 07-71014-A 07-80004-A 07-80005-A
07-82008-A	07-82008-00-CI	Retractable armrests				X	07-80004-00-CI or 07-80005-00-CI or 07-80012-00-CI	VIP 11 seats with galley & toilet or VIP 12-seats with galley & toilet or VIP 10-seats with galley & toilet	07-80004-A or 07-80005-A or 07-80012-A

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Document Reference	Commercial Reference	Installation	Nature of the Constraint				Commercial Reference	Installation	Document Reference
			EXL	NSF	NSU	REQ			
07-82009-A	07-82009-00-CI	Lombar adjustment				X	07-80004-00-CI	VIP 11 seats with galley & toilet	07-80004-A
						X	or 07-80005-00-CI	or VIP 12-seats with galley & toilet	or 07-80005-A
						X	or 07-80012-00-CI	or VIP 10-seats with galley & toilet	or 07-80012-A
07-83001-A	07-83001-00-CI	Electric curtains				X	07-80004-00-CI	VIP 11 seats with galley & toilet	07-80004-A
						X	or 07-80005-00-CI	or VIP 12-seats with galley & toilet	or 07-80005-A
						X	or 07-80012-00-CI	or VIP 10-seats with galley & toilet	or 07-80012-A
07-84003-A	07-84003-00-CI	Customized inlaid wood table				X	07-80004-00-CI	VIP 11 seats with galley & toilet	07-80004-A
						X	or 07-80005-00-CI	or VIP 12-seats with galley & toilet	or 07-80005-A
						X	or 07-80012-00-CI	or VIP 10-seats with galley & toilet	or 07-80012-A
07-85007-A	07-85007-00-CI	Transparent central partition with storage compartment				X	07-80004-00-CI	VIP 11 seats with galley & toilet	07-80004-A
						X	or 07-80005-00-CI	or VIP 12-seats with galley & toilet	or 07-80005-A
						X	or 07-80012-00-CI	or VIP 10-seats with galley & toilet	or 07-80012-A
07-91001-A	07-91001-00-CI	Gold finishing of cabin visible metallic parts				X	07-80004-00-CI	VIP 11 seats with galley & toilet	07-80004-A
						X	or 07-80005-00-CI	or VIP 12-seats with galley & toilet	or 07-80005-A
						X	or 07-80012-00-CI	or VIP 10-seats with galley & toilet	or 07-80012-A
08-17018-A	08-17018-00-CI	CD player				X	07-80004-00-CI	VIP 11 seats with galley & toilet	07-80004-A
						X	or 07-80005-00-CI	or VIP 12-seats with galley & toilet	or 07-80005-A
						X	or 07-80012-00-CI	or VIP 10-seats with galley & toilet	or 07-80012-A
08-17019-A	08-17019-00-CI	CD / DVD player				X	07-80004-00-CI	VIP 11 seats with galley & toilet	07-80004-A
						X	or 07-80005-00-CI	or VIP 12-seats with galley & toilet	or 07-80005-A
						X	or 07-80012-00-CI	or VIP 10-seats with galley & toilet	or 07-80012-A

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5- Main performance

The following performance values and figures refer to an AS332 L1 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	6,000	7,000	8,000	8,600	
	lb	13,230	15,430	17,630	18,960	
■ Max. speed, VNE	km/hr	304	303	298	278	
	kts	164	164	161	150	
■ Maximum cruise speed	km/hr	283	281	278	262	
	kts	153	152	150	141	
■ Recommended cruise speed	km/hr	265	262	258	252	
	kts	143	141	139	136	
■ Fuel consumption at recommended cruise speed	kg/hr	481	486	497	502	
	lb/hr	1,060	1,071	1,096	1,107	
■ Fuel consumption at 70 kts	kg/hr	335	353	374	389	
	lb/hr	739	778	825	858	
■ Rate-of-climb at 70 kts	m/sec.	14.7	12.1	9.8	8.2	
	ft/min.	2,894	2,382	1,920	1,618	
■ Hover ceiling IGE (10ft) at take-off power	● ISA	m	6,500	5,100	3,950	3,250
		ft	21,325	16,732	12,959	10,663
● ISA + 20°C	m	5,850	4,450	3,200	2,300	
	ft	19,193	14,560	10,499	7,546	
■ Hover ceiling OGE at take-off power	● ISA	m	5,750	4,300	3,050	2,300
		ft	18,865	14,108	10,007	7,546
● ISA + 20°C	m	5,200	3,550	2,100	1,400	
	ft	17,060	11,647	6,890	4,593	
■ Service ceiling Vz = 150 ft/min	● ISA	m	7,200	5,900	4,650	>2,895
		ft	23,622	19,357	15,255	>9,500
● ISA + 20°C	m	6,500	5,100	3,800	2,895	
	ft	21,325	16,732	12,467	>9,500	
■ Maximum range (without fuel reserve, at recommended cruise speed)	● with standard fuel tanks	km	736	879	859	841
		nm	397	474	464	454
● with external fuel tanks	km	664	1148	1127	1105	
	n.m.	358	620	609	596	
● with central auxiliary fuel tank	km	724	1021	1000	979	
	n.m.	391	551	540	529	
● with external and central auxiliary fuel tanks	km	652	1192	1267	1105	
	n.m.	352	644	684	597	
● with external, central and cabin fuel tanks	km	624	1164	1528	1105	
	n.m.	337	628	825	597	
● with external, central and 5 ferrying tanks	km	592	1132	1662	1976	
	n.m.	319	611	897	1067	
■ Maximum endurance (without fuel reserve, at 130 km/hr (70 kts))	● with standard fuel tanks	hr : min	4:08	4:49	4:34	4:24
		hr : min	3:46	6:26	6:06	5:54
● with external fuel tanks	hr : min	4:04	5:38	5:20	5:09	
	hr : min	3:42	6:41	6:53	6:39	
● with central auxiliary fuel tanks	hr : min	3:32	6:32	8:23	8:06	
	hr : min	3:21	6:21	9:09	10:46	
● with external and central auxiliary fuel tanks	hr : min	3:32	6:32	8:23	8:06	
	hr : min	3:21	6:21	9:09	10:46	
● with external, central and cabin fuel tanks	hr : min	3:32	6:32	8:23	8:06	
	hr : min	3:21	6:21	9:09	10:46	
● with external, central and 5 ferrying tanks	hr : min	3:21	6:21	9:09	10:46	
	hr : min	3:21	6:21	9:09	10:46	

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Performance in external load (maximum gross-weight of 9,350 kg – 20,615 lb)

■ Rate of climb at 9,350 kg	6.4 m/sec 1,260 ft/min
■ Hover ceiling OGE at take-off power	
• ISA	650 m 2,133 ft
• ISA + 10°C	300 m 984 ft
• ISA + 17°C	Sea level

Performance on 1 engine

Gross Weight	kg lb	6,000 13,230	7,000 15,430	8,000 17,630	8,600 18,960
■ Rate-of-climb at intermediate emergency power S.L.	m ft/min	9.0 1,772	6.8 1,339	4.7 925	3.4 669
■ Service ceiling at intermediate emergency power (Vz = 0) ISA	m ft	5,200 17,060	3,700 12,139	2,500 8,202	1,800 5,906
■ Service ceiling at intermediate emergency power (Vz = 0) ISA +20	m ft	4,500 14,764	3,050 10,007	1,750 5,741	950 3,117
■ Maximum temperature for take-off in Cat. A from clear heliport at S.L.	°C	>50	>50	>50	40

Maximum take-off weight at max. emergency power

		ISA	ISA + 20°C
■ In hover IGE (10 ft)	kg lb	7,500 16,534	6,900 15,211
■ In hover OGE	kg lb	6,910 15,233	6,320 13,933

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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 M < 8,350 kg : 7,620 m – 25,000 ft Pressure Altitude
 - Flight M > 8,350 kg : 2,895 m – 9,500 ft Pressure Altitude
 - Take-off and landing : 4,572 m – 15,000 ft Density Altitude
- 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	SL :	Sea Level
AGL :	Above Ground Level	TAS :	True Air Speed
DA :	Density Altitude	TOP :	Take-Off Power
IGE :	In Ground Effect	VNE :	Never Exceed Speed
ISA :	International Standard Atmosphere	VTOL :	Vertical Take-Off and Landing
MCP :	Maximum Continuous Power	Vtoss :	Take-off safety speed
OEI :	One Engine Inoperative	Vy :	Optimum climbing speed
OGE :	Out of Ground Effect	Vz :	Rate-of-climb
PA :	Pressure Altitude		

Units

nm :	nautical miles	hr:min :	hours:minutes
kts :	knots	kg :	Kilograms
ft/min :	feet/minute	lb :	pounds
m/sec :	meters per second	km :	kilometers
° C :	degrees Celsius		

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Performance charts

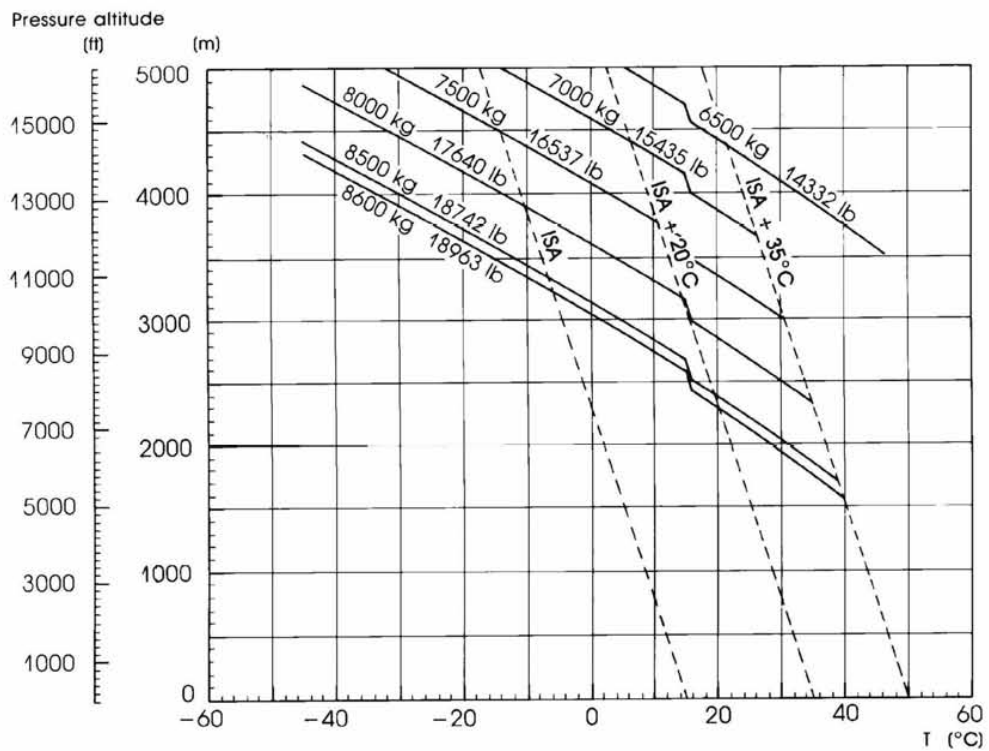
The performance charts presented hereafter apply to an aircraft as per the standard definition.

■ Take-off weight in hover IGE, (10 ft, on 2 engines, at take-off power or max torque, no wind)	Page 28
■ Take-off weight in hover OGE, (on 2 engines, at take-off power or max torque, no wind)	Page 29
■ Maximum cruise speed Pitch : 16.5 for weight ≤ 8,350 kg – 18,410 lb Pitch : 16° for weight > 8,350 kg – 18,410 lb ISA	Page 30
■ Maximum cruise speed Pitch : 16.5 for weight ≤ 8,350 kg – 18,410 lb Pitch : 16° for weight > 8,350 kg – 18,410 lb ISA + 20°C	Page 31
■ Recommended cruise speed (pitch 15°5) ISA	Page 32
■ Recommended cruise speed (pitch 15°5) ISA + 20°C	Page 33
■ Rate of climb in oblique flight (on 2 engines, at best climb speed) ISA	Page 34
■ Rate of climb in oblique flight (on 2 engines, at best climb speed) ISA + 20°C	Page 35
■ Rate of climb in oblique flight (on 1 engine, at intermediate emergency power) ISA	Page 36
■ Rate of climb in oblique flight (on 1 engine, at intermediate emergency power) ISA + 20°C	Page 37
■ Hourly fuel consumption at maximum cruise speed (pitch 16°5, M ≤ 8,350 kg) ISA	Page 38
■ Hourly fuel consumption at maximum cruise speed (pitch 16°, M > 8,350 kg) ISA	Page 39
■ Hourly fuel consumption at maximum cruise speed (pitch 16°5, M ≤ 8,350 kg) ISA + 20°C	Page 40
■ Hourly fuel consumption at maximum cruise speed (pitch 16°, M > 8,350 kg) ISA + 20°C	Page 41
■ Hourly fuel consumption at recommended cruise speed ISA	Page 42
■ Hourly fuel consumption at recommended cruise speed ISA + 20°C	Page 43
■ Take off clear heliport CAT A	Page 45

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TAKE-OFF WEIGHT IN HOVER IGE (HEIGHT = 10 FT)

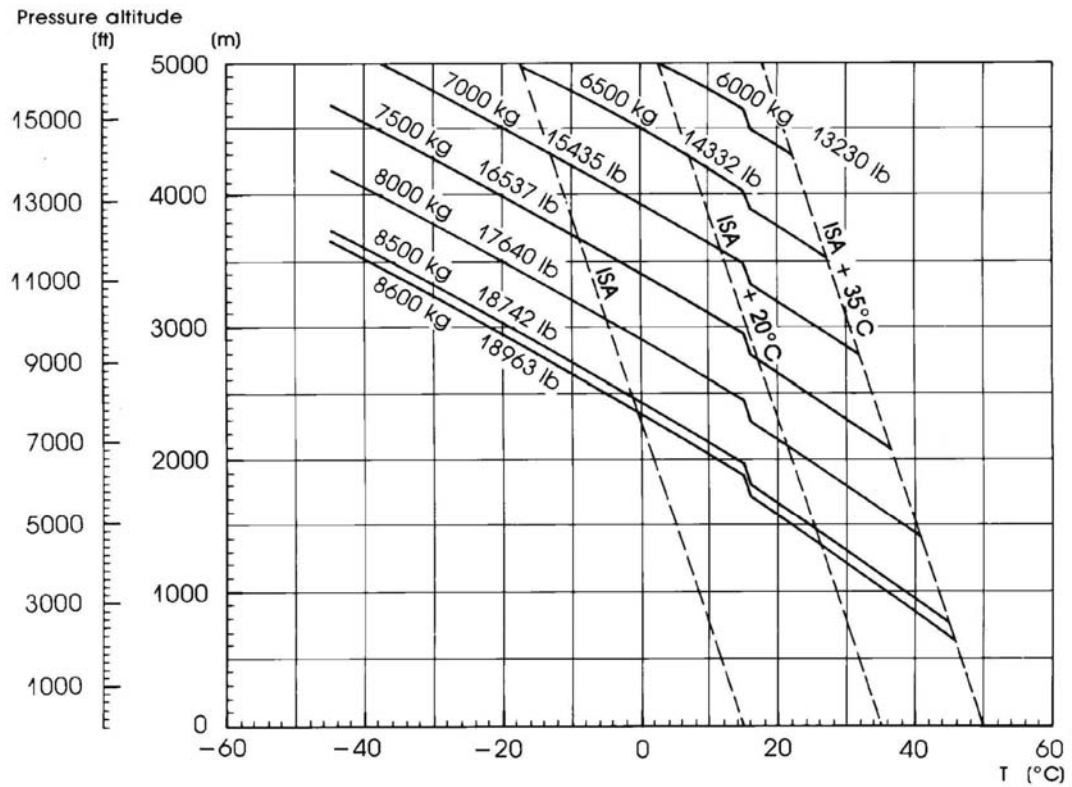
(10 ft, on 2 engines, at take-off power or maximal torque, no wind)



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TAKE-OFF WEIGHT IN HOVER OGE

(on 2 engines, at take-off power or maximal torque, no wind)



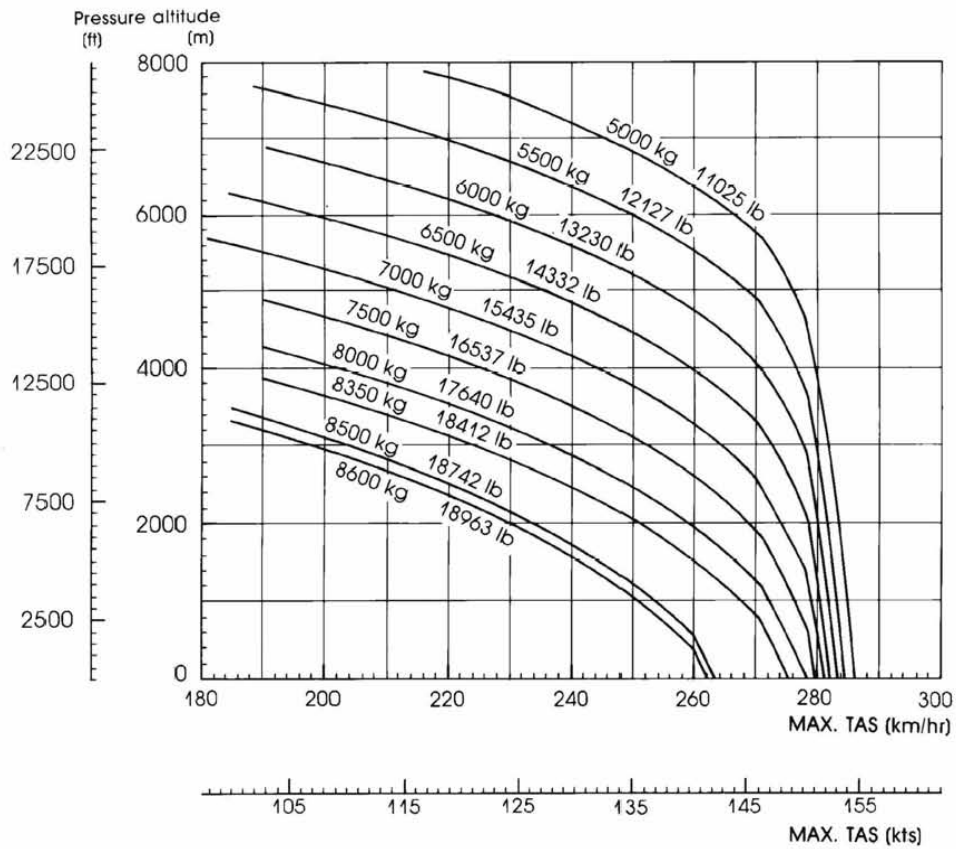
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MAXIMUM CRUISE SPEED

Pitch : 16°5 for weight ≤ 8,350 kg - 18,410 lb

Pitch : 16° for weight > 8,350 kg - 18,410 lb

ISA



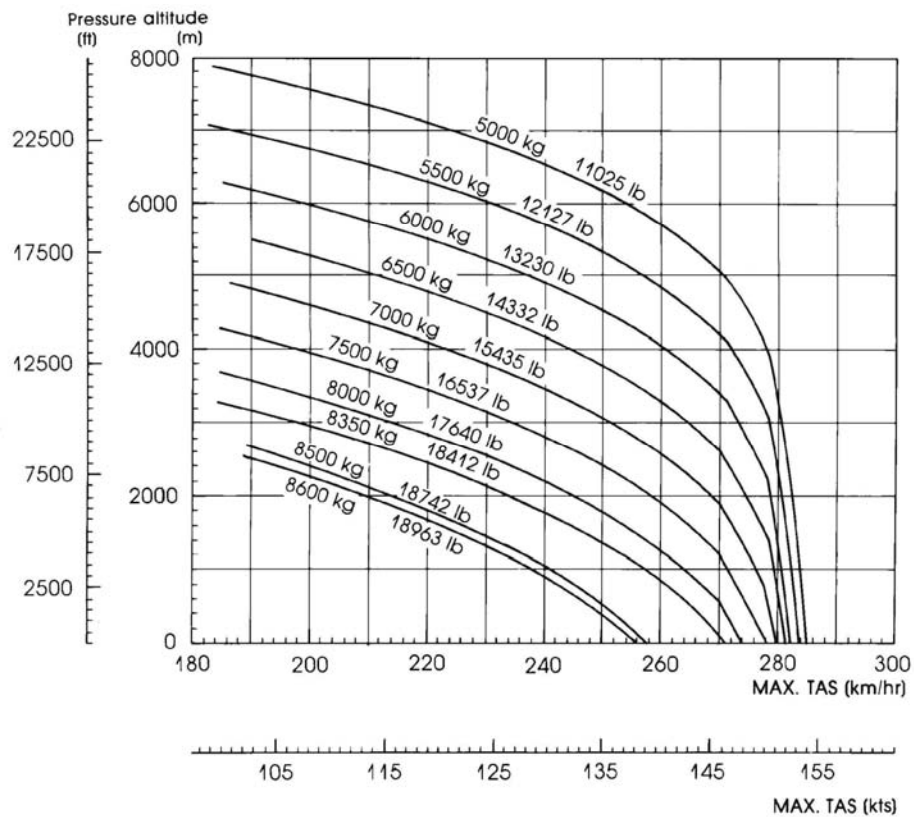
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MAXIMUM CRUISE SPEED

Pitch : 16°5 for weight ≤ 8,350 kg - 18,410 lb

Pitch : 16° for weight > 8,350 kg - 18,410 lb

ISA + 20°C

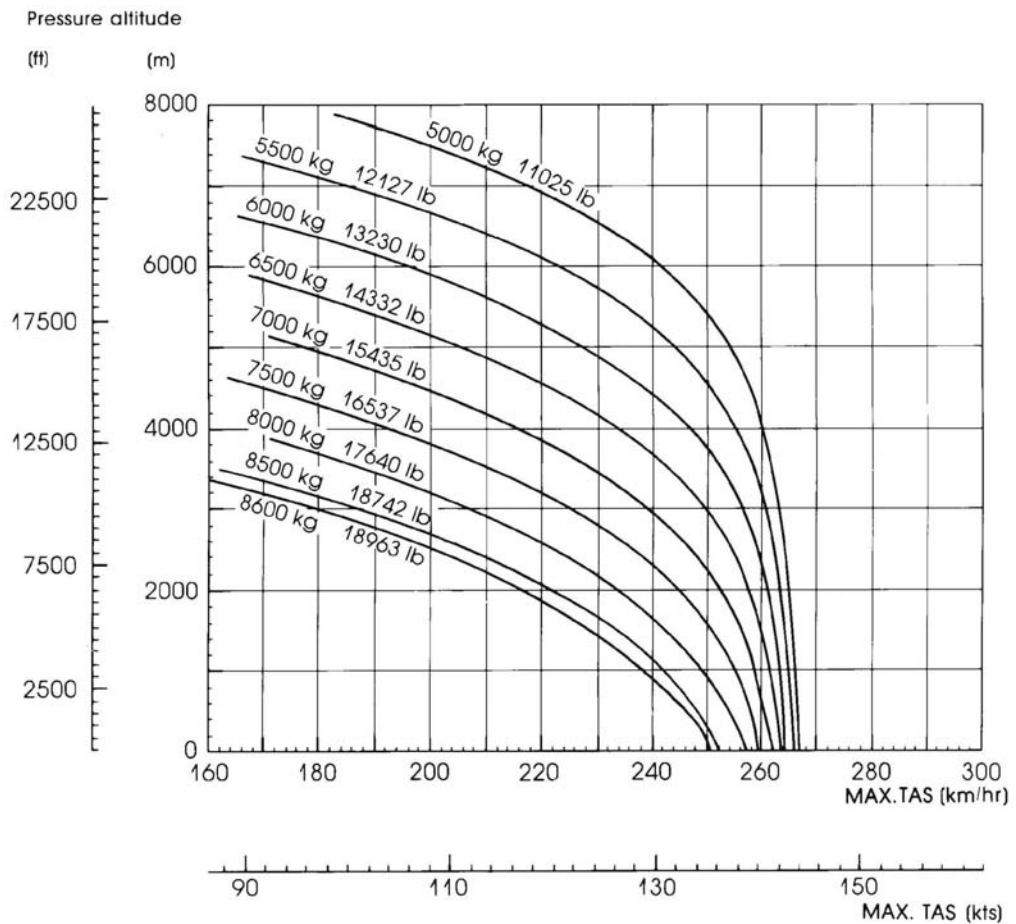


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RECOMMENDED CRUISE SPEED

Pitch : 15°5

ISA

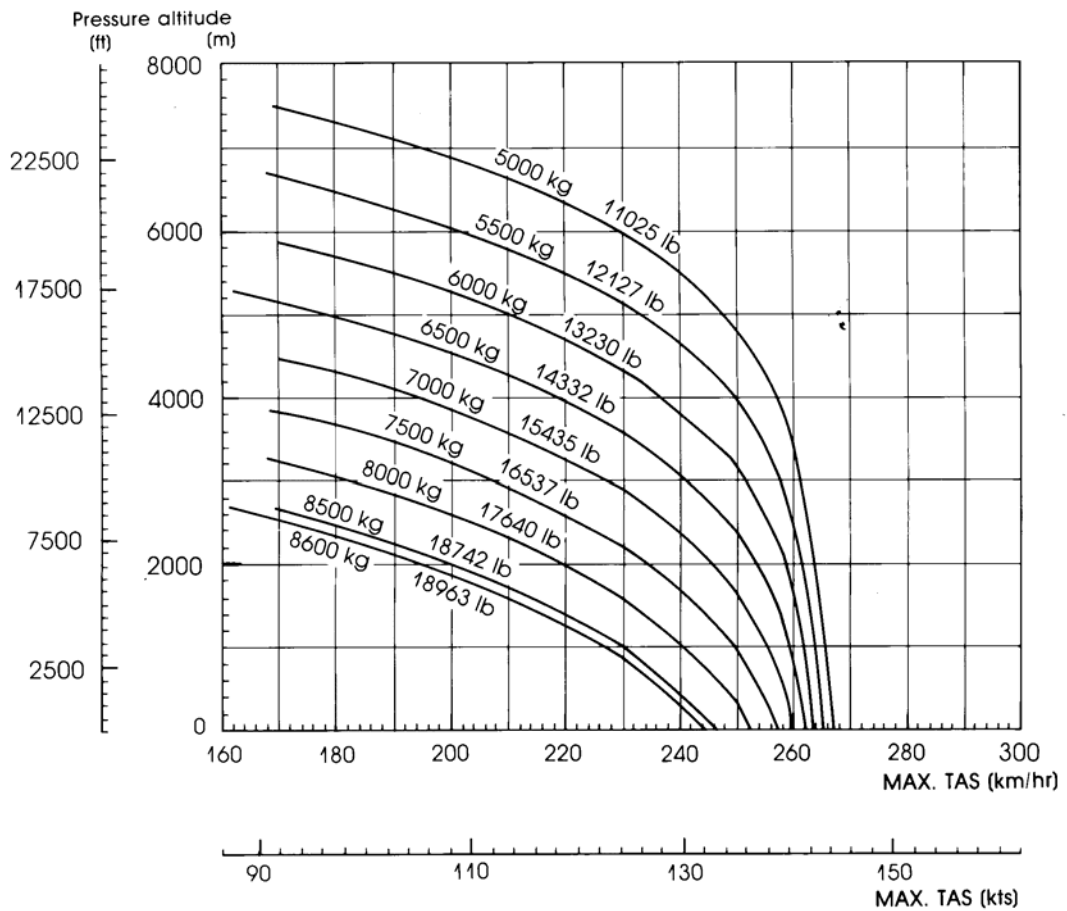


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RECOMMENDED CRUISE SPEED

Pitch : 15°5

ISA + 20°C

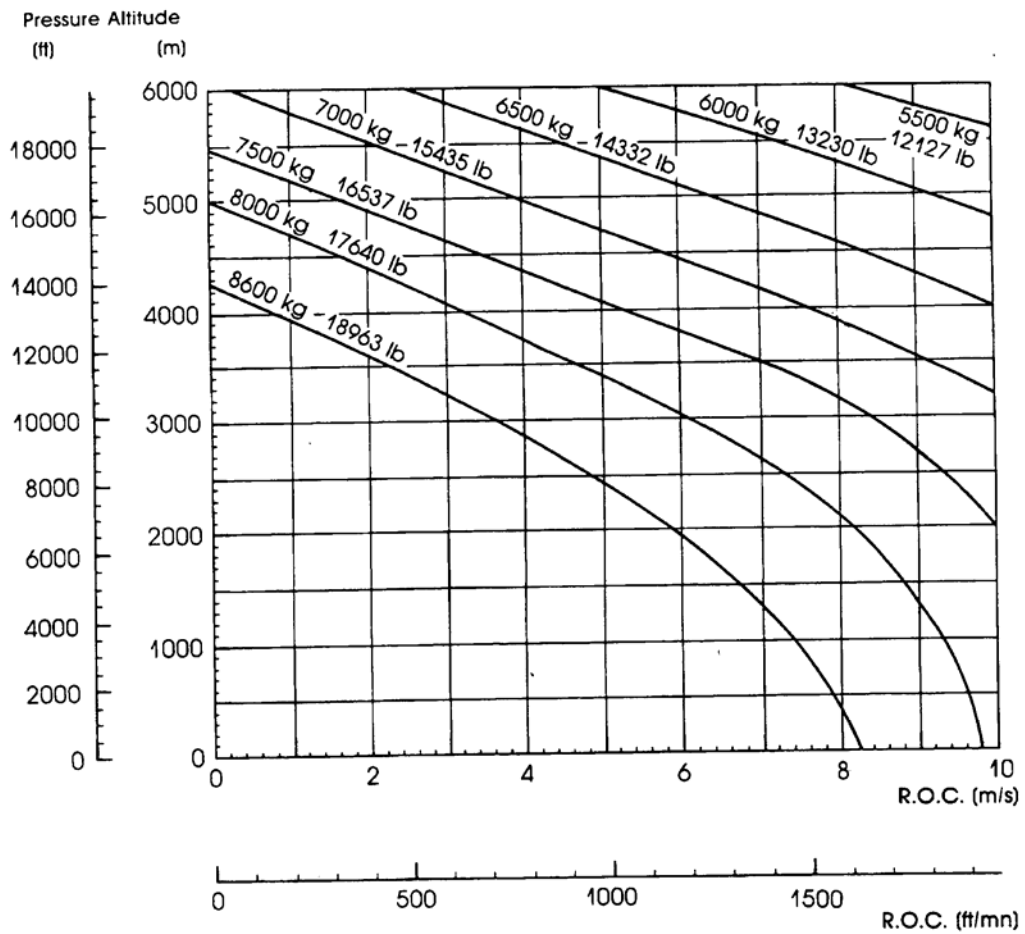


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RATE-OF-CLIMB IN OBLIQUE FLIGHT

(on 2 engines, at best climb speed)

ISA

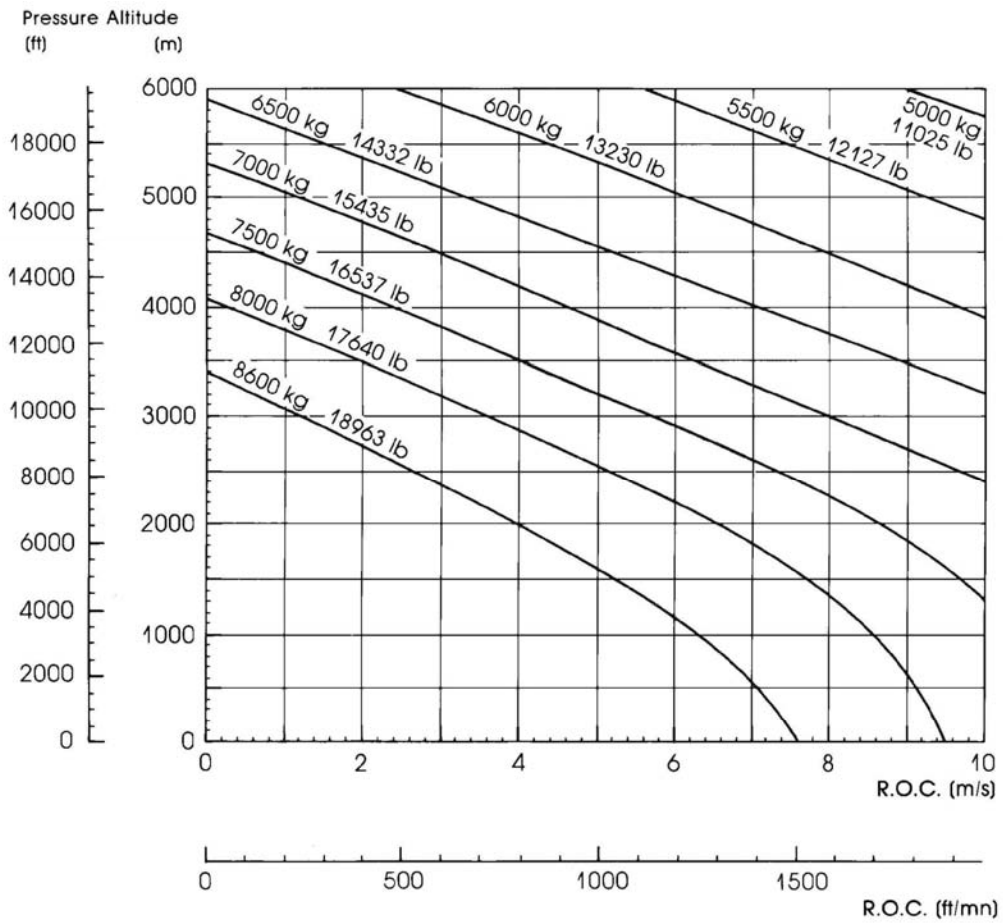


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RATE-OF-CLIMB IN OBLIQUE FLIGHT

(on 2 engines, at best climb speed)

ISA + 20°C

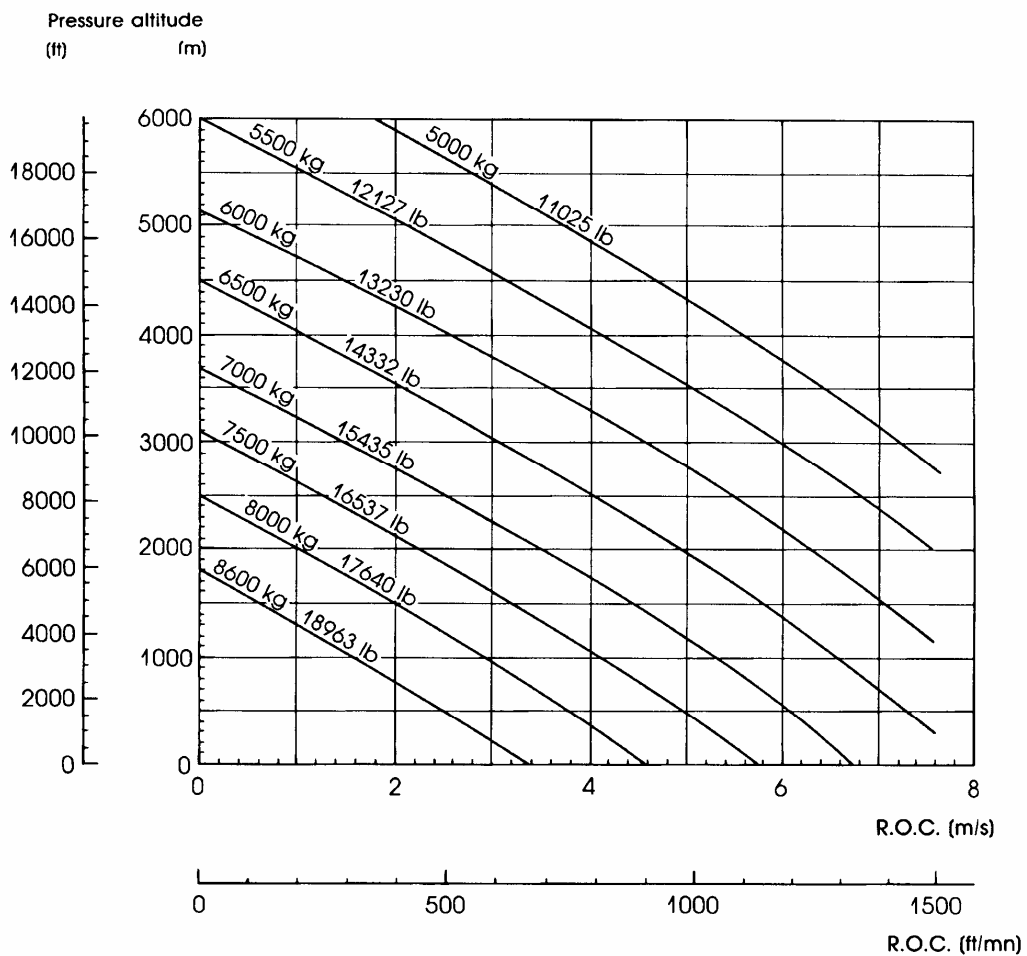


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RATE-OF-CLIMB IN OBLIQUE FLIGHT

(on 1 engine, at intermediate emergency power)

ISA

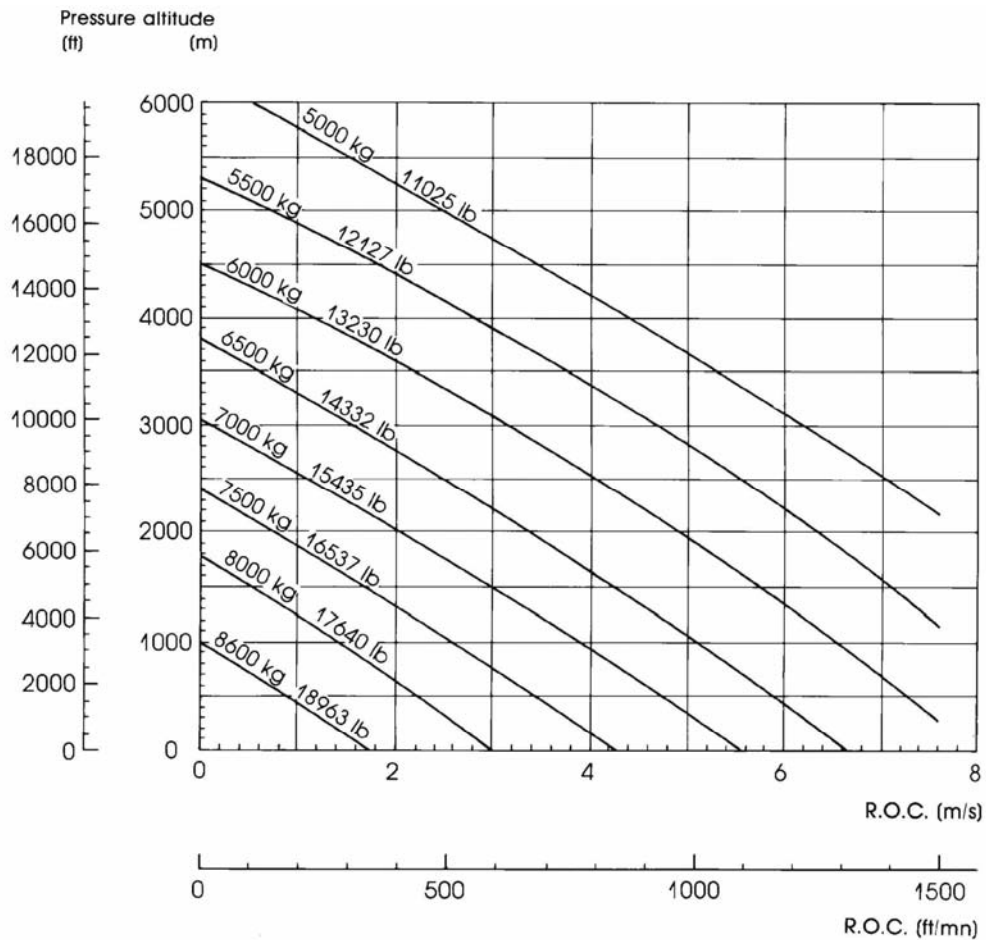


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RATE-OF-CLIMB IN OBLIQUE FLIGHT

(on 1 engine, at intermediate emergency power)

ISA + 20°C



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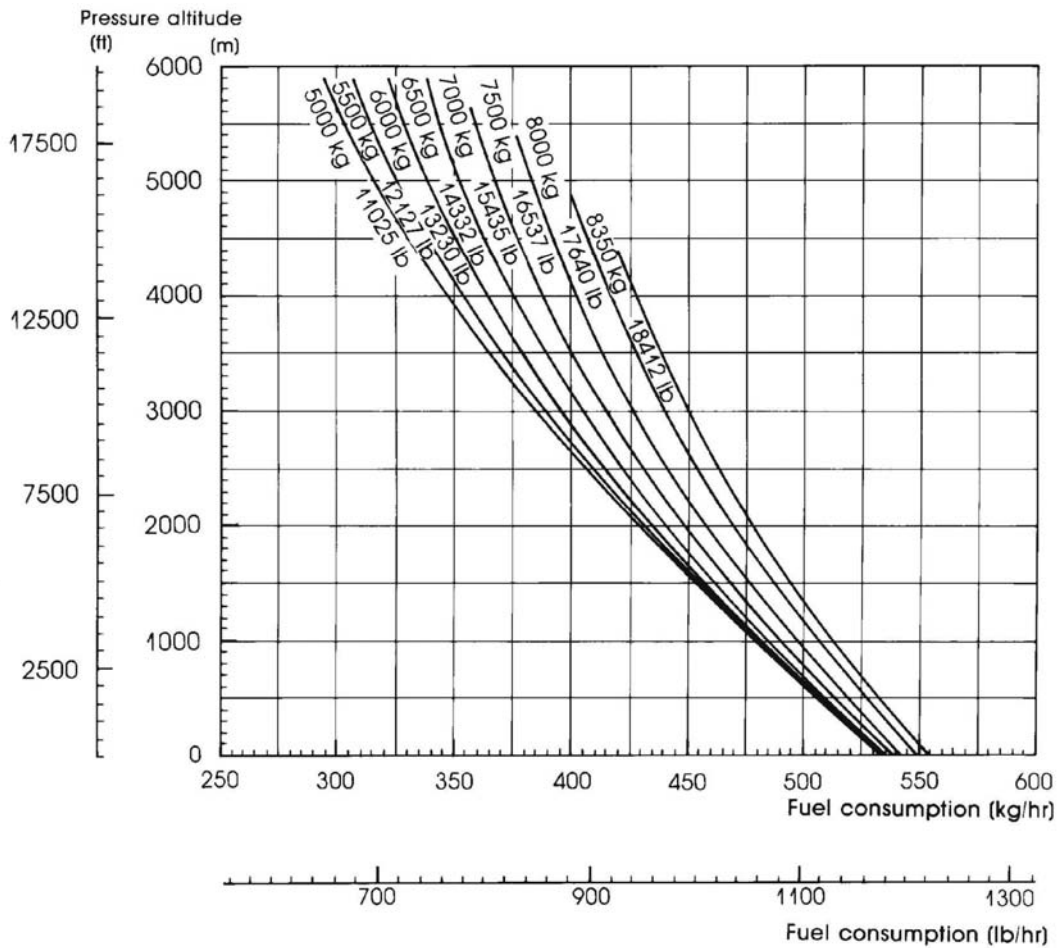
HOURLY FUEL CONSUMPTION

AT MAXIMUM CRUISE SPEED

(pitch 16°5)

M ≤ 8350 kg

ISA



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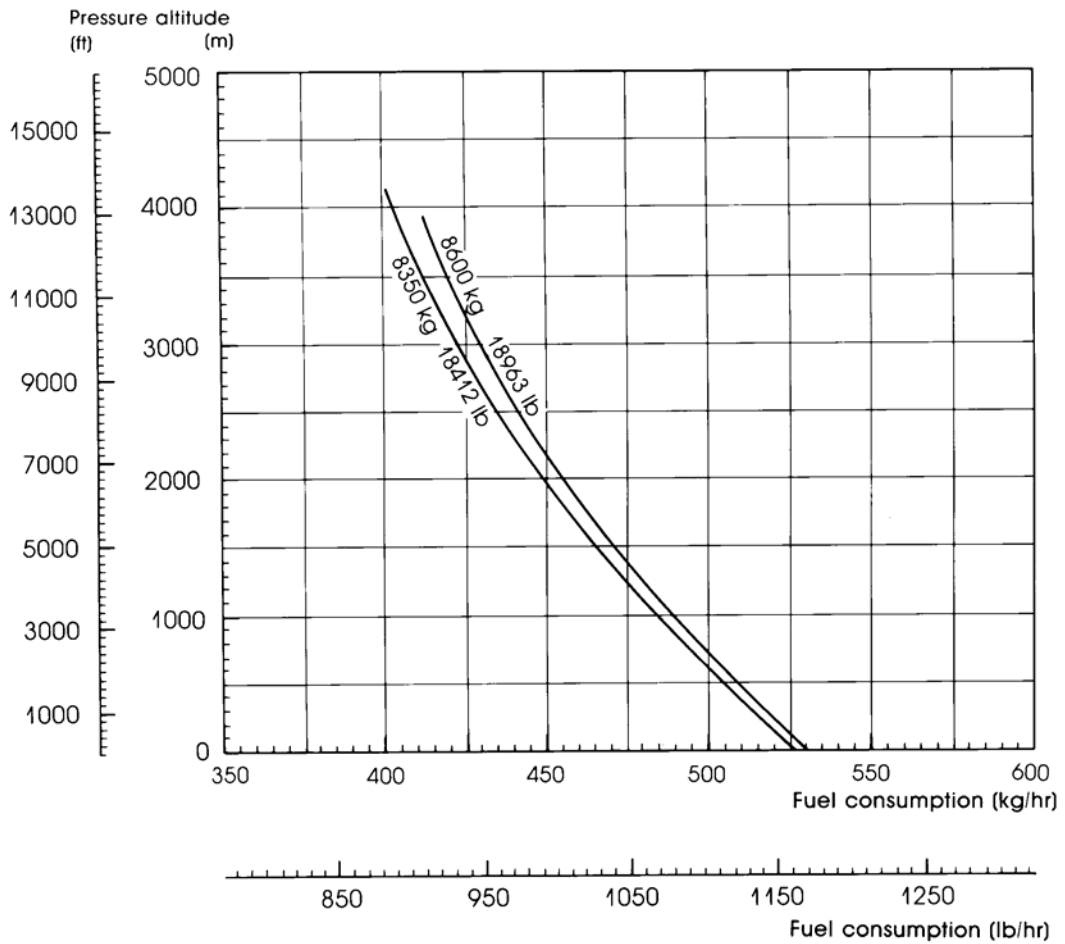
HOURLY FUEL CONSUMPTION

AT MAXIMUM CRUISE SPEED

(pitch 16°)

M > 8350 kg

ISA



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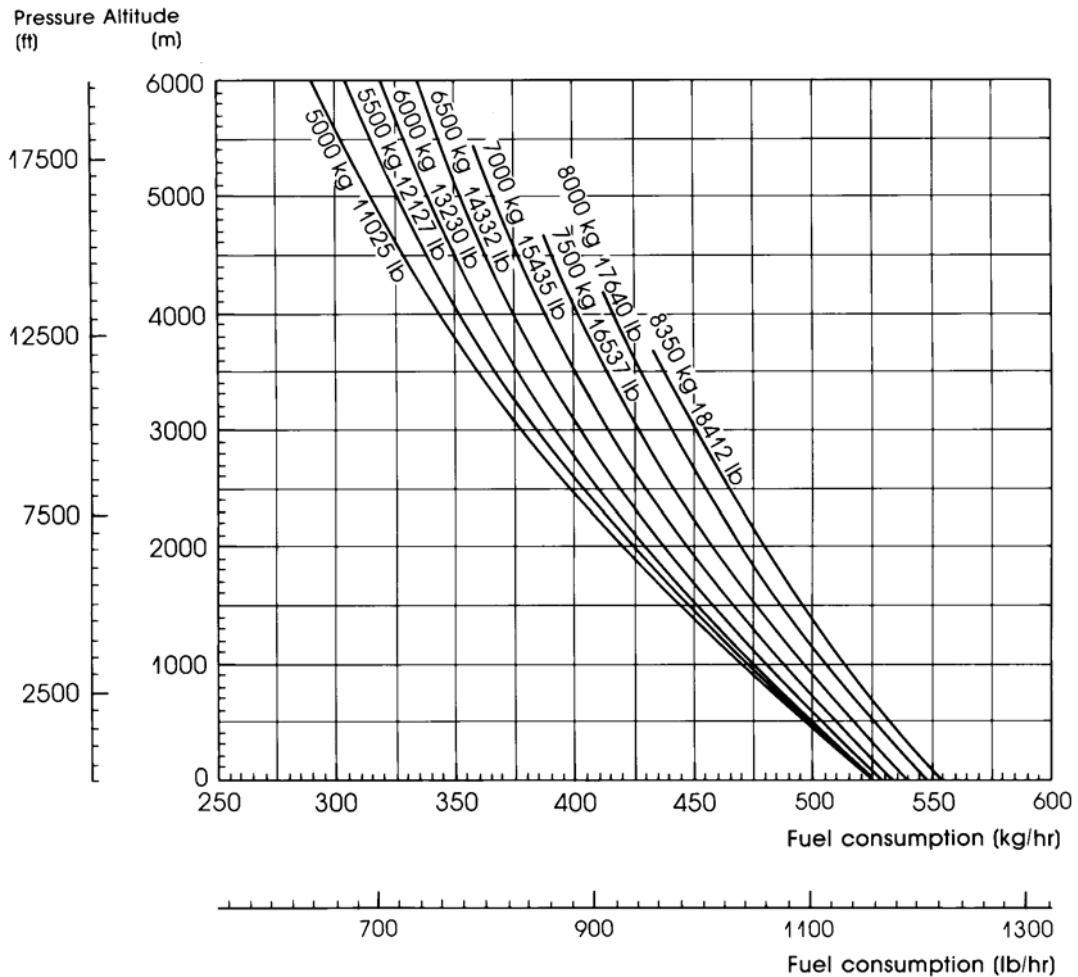
HOURLY FUEL CONSUMPTION

AT MAXIMUM CRUISE SPEED

(pitch 16°5)

M ≤ 8350 kg

ISA + 20°C



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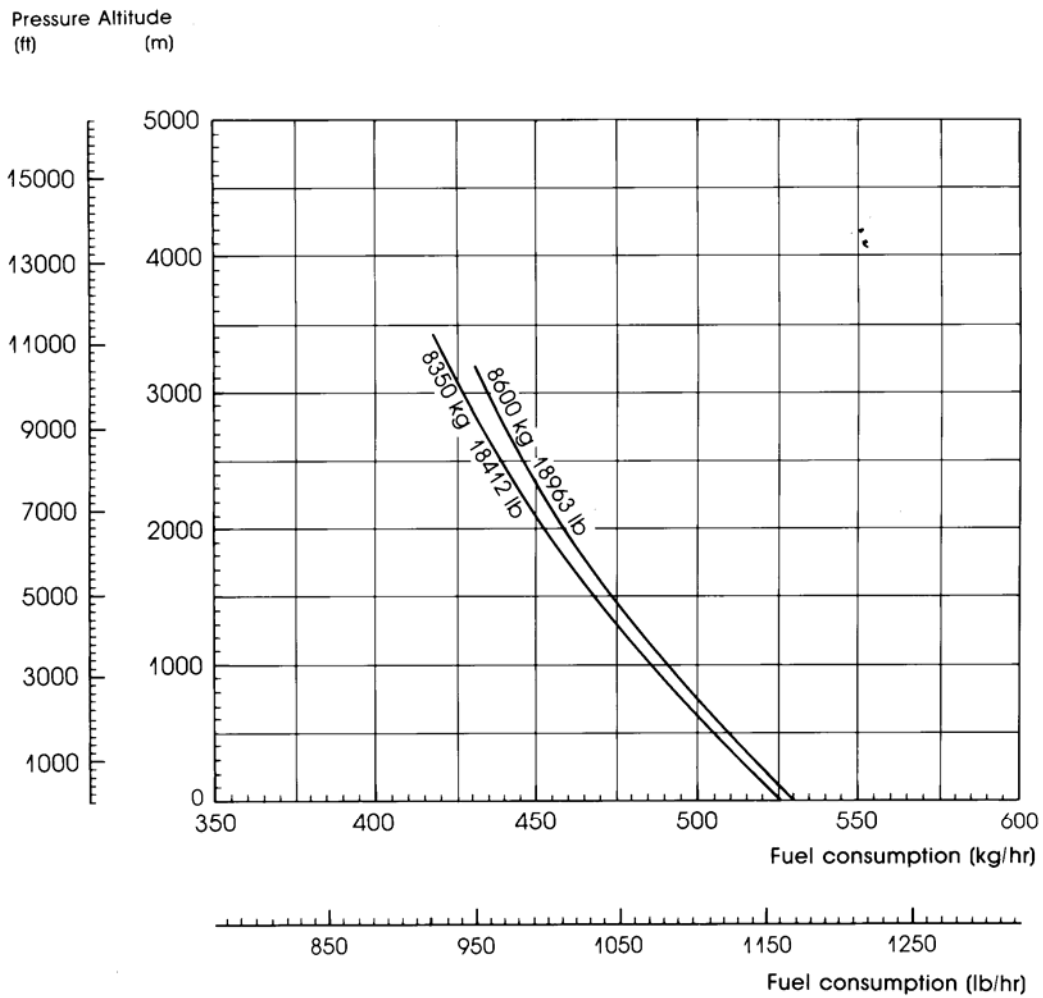
HOURLY FUEL CONSUMPTION

AT MAXIMUM CRUISE SPEED

(pitch 16°)

M > 8350 kg

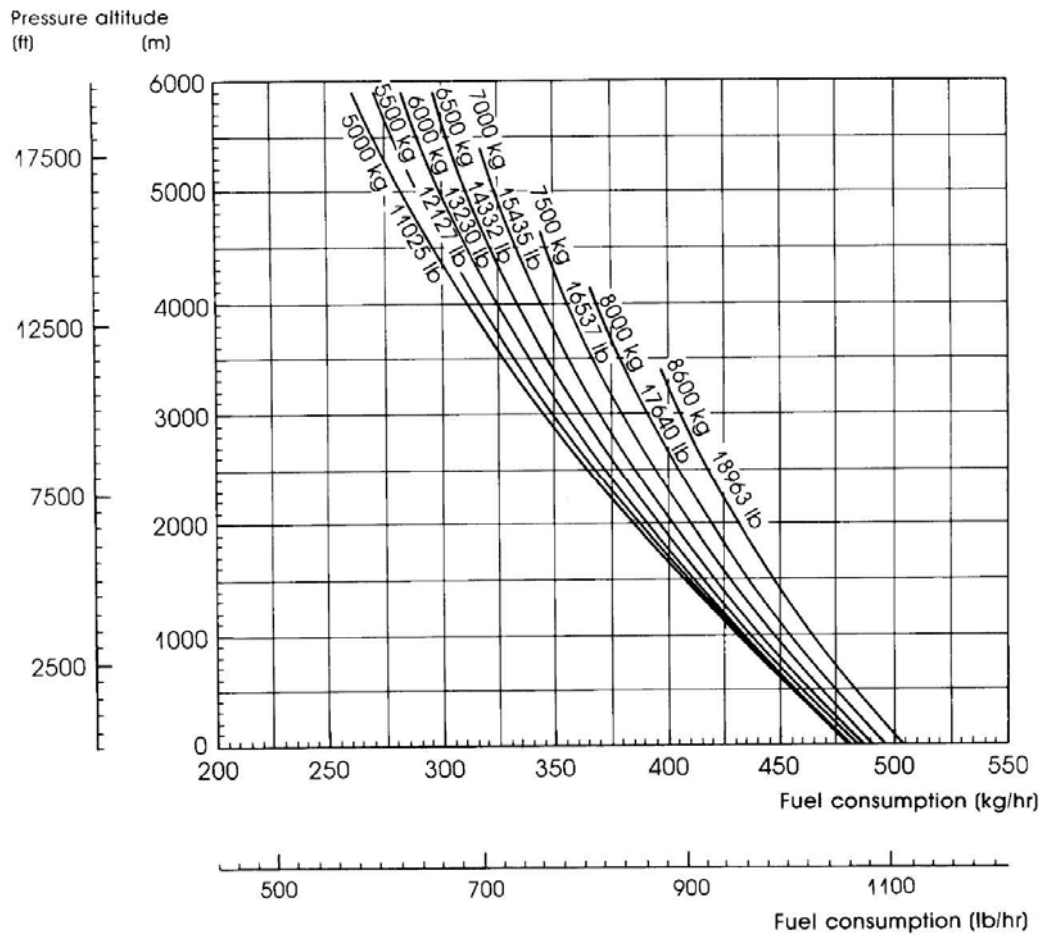
ISA + 20°C



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HOURLY FUEL CONSUMPTION
AT RECOMMENDED CRUISE SPEED

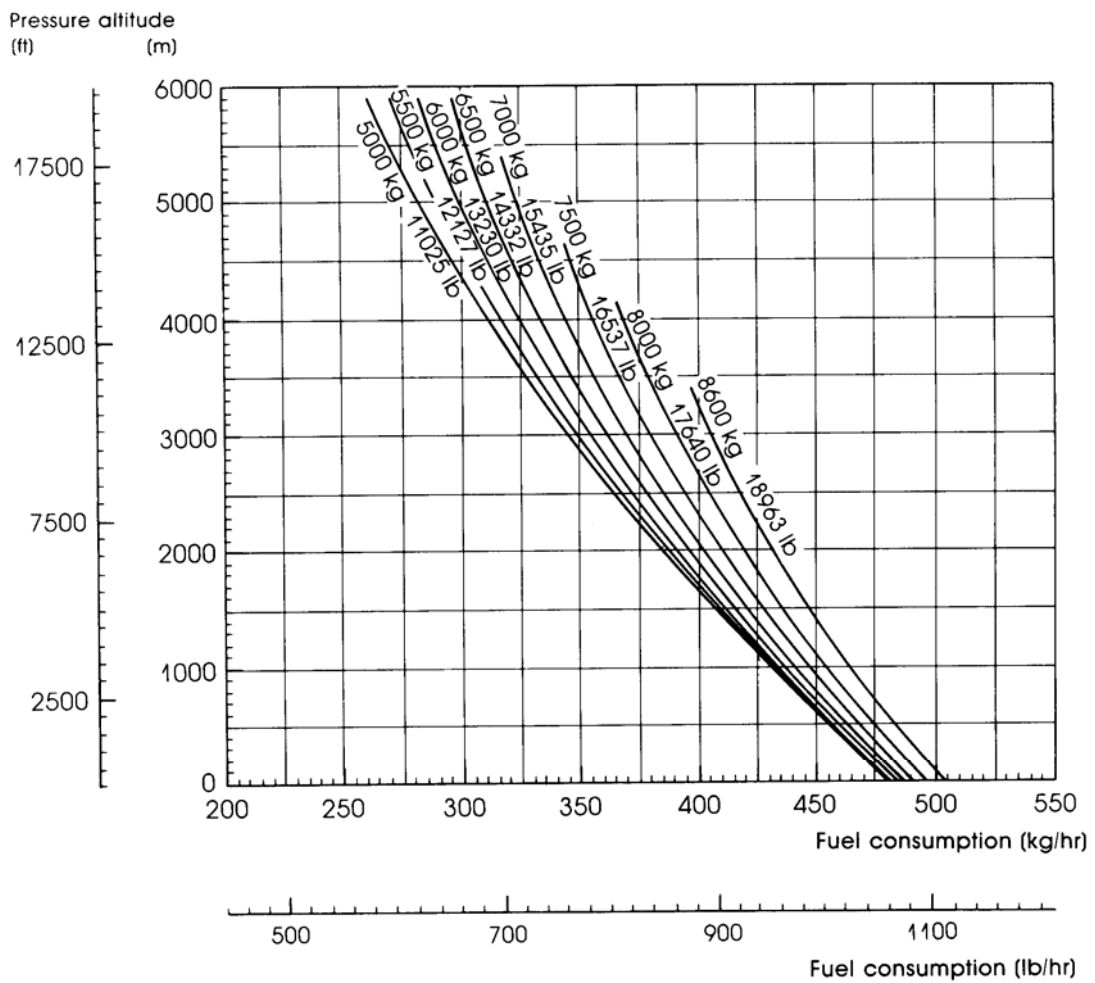
ISA



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HOURLY FUEL CONSUMPTION
AT RECOMMENDED CRUISE SPEED

ISA + 20°C



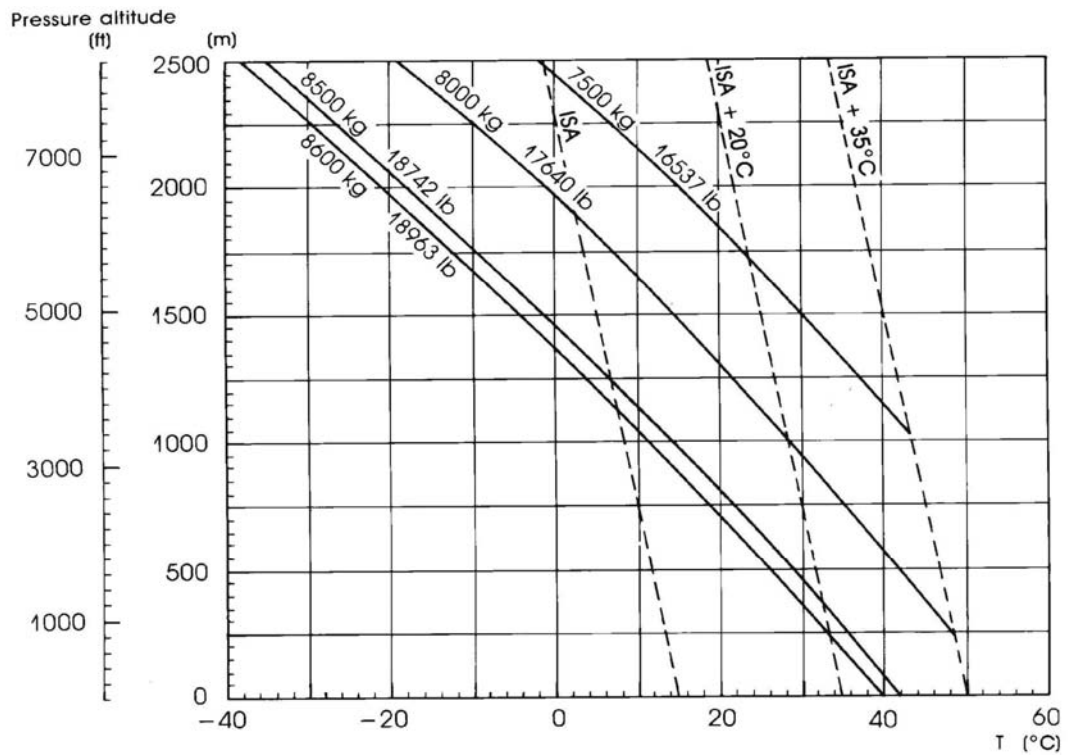
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TAKE-OFF CLEAR HELIPORT

Cat. A



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