



EUROCOPTER
EC135

Technical
Data

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135 06.101.01 E

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Manufacturer's notes – Attention!

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

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

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

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1 Foreword



The EC135 is a light twin-engine, multi-purpose helicopter of the 2-3 ton class with up to 8 seats for pilot/s and passengers. Underlining its multi-role capabilities, it can even be operated single pilot IFR as an option. The helicopter combines Eurocopter's latest Technologies, like advanced cockpit design, modern avionics, fenestron anti-torque-device and all-composite bearingless main rotor system, giving the helicopter an outstanding maneuverability. Optimized main rotor blades with advanced tip geometry in combination with a fenestron with unequal blade spacing make the EC135 the quietest helicopter in its class, bringing it 6.5 dBA below the ultra-stringent ICAO limit. The built-in anti resonance isolation system (ARIS) filters rotor-induced vibrations and thus enhances flying comfort to a maximum. As a result, the vertical vibration level is far below 0.1g at hover with no increase with speed.

Due to its extreme simplicity, the rotor system contributes to highest safety standards and, at the same time, reduces maintenance to a minimum. The first scheduled maintenance is the intermediate inspection after 400 Flh. In addition, the rotor system together with high TBO gearbox and airframe components grant for high in-service-time of the helicopter.

Depending on the operator's preferences, the EC135 can be equipped with either Arrius 2B2 or Pratt & Whitney PW206B2 power plants - both are FADEC controlled. These powerful and reliable engines in combination with the lifting system provide outstanding performance and vital power reserves even in OEI scenarios.

For training purpose an OEI training mode is implemented to perform a realistic OEI training. This training mode is based on a twin engine training concept featuring a so called TRAINING and a TRAINING IDLE engine.

Twin-engine reliability is complemented by a tandem hydraulic and dual electrical system as well as a redundant lubrication and cooling system for the main transmission.

Further safety aspects of the EC135 are design elements like energy absorbing fuselage and seats, as well as the crash resistant fuel cells.

A wide range of quick interchangeable optional equipment is available for the EC135, e.g. emergency floats, hoist, SX16 search light, single or dual cargo hook and many more. Together with its most versatile cabin layout the EC135 is ready to operate in different missions, like police / surveillance, passenger / VIP transport, EMS, public service, to highlight on a few.

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Compared to other helicopters in its class, the EC135 offers a large cabin, featuring:

- Excellent outside visibility for pilots and passengers
- Roomy cabin which accommodates long or bulky freight
- Unrivalled side loading (no door posts) and rear loading capability
- Unobstructed and flat floor all over the cabin area with integrated airline style rails



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Alternatively to a conventional cockpit, the EC135 is available with “glass cockpit”, which comprises primary flight displays (PFD) and NAV displays (ND). All LCD screens are well arranged on the instrument panel, easy to read even if viewed from an angle and feature perfect readability in any light conditions. The unique color coding, warning and information concept helps the pilot/s to collect all relevant parameters while suppressing presentation of non-relevant information.

Common to the conventional and the glass cockpit is the Central Panel Display System (CPDS). Included in this CPDS there is Eurocopter’s unique first limit indicator (FLI) which dramatically simplifies engine and torque monitoring. Being relieved from the instrument scan without missing vital information, the pilot/s can dedicate more of his/their attention to the mission.

**Conventional Instrumentation
(analog instruments)**



**Glass Cockpit Instrumentation
(MEGHAS / FCDS)**



VFR- Single Pilot or Dual Pilot	Packages based on Avionics Solution 1
IFR- Dual Pilot	Packages based on Avionics Solution 3 or 4
IFR- Single Pilot	not available

VFR- Single Pilot or Dual Pilot	covered by SP or DP-IFR solutions
IFR- Dual Pilot or Single/Dual Pilot	Packages based on Avionics Solution 7, 8 or 11
IFR- Single Pilot	Packages based on Avionics Solution 9, 10 or 12

Latest news / highlights:

New version EC135 P2+ or T2+ with:

- **Increased maximum take off weight:**
- **Increased useful load:**

MTOW: 2.910 kg
1.455 kg

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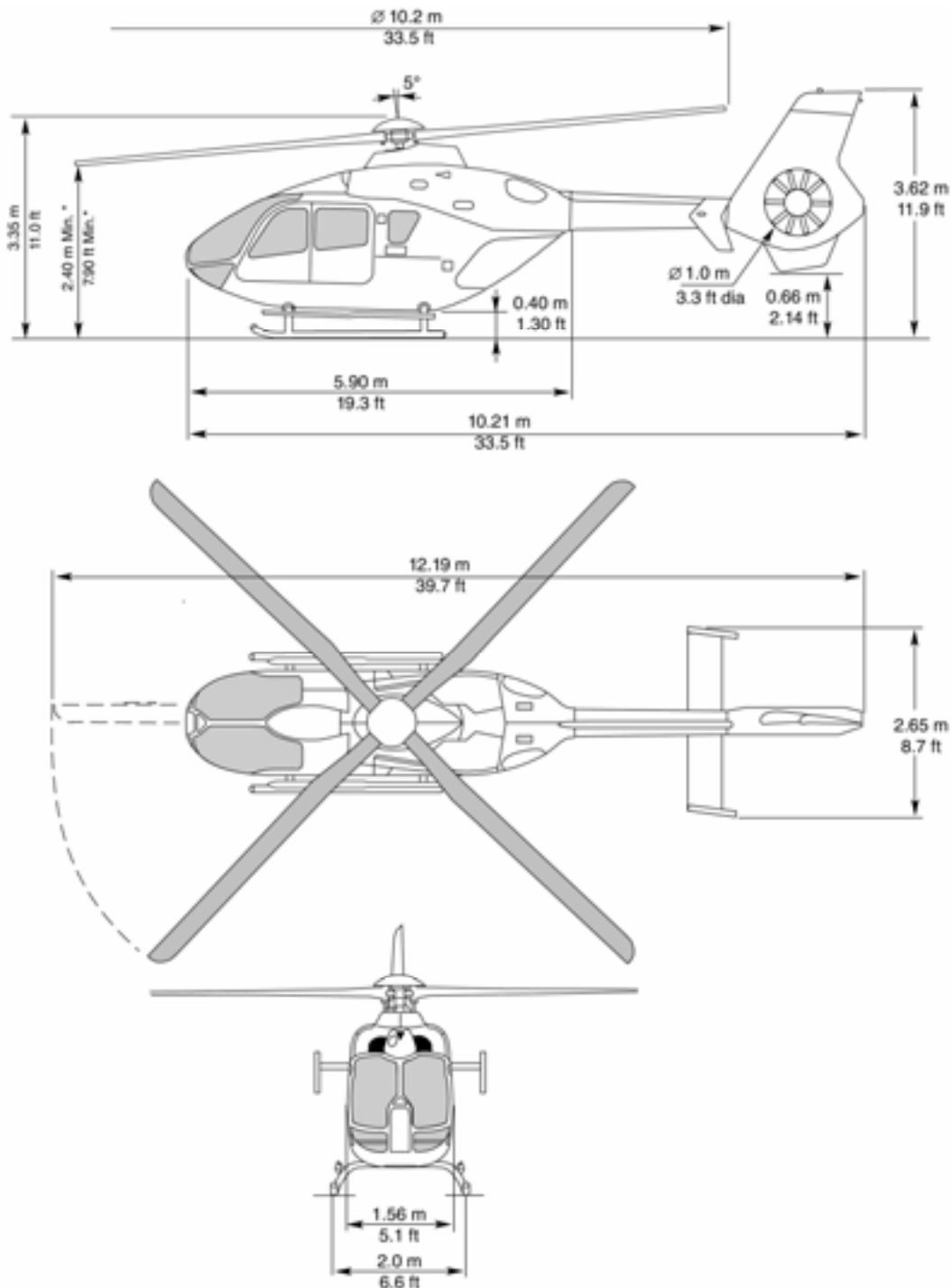
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2 General characteristics

2.1 External dimensions

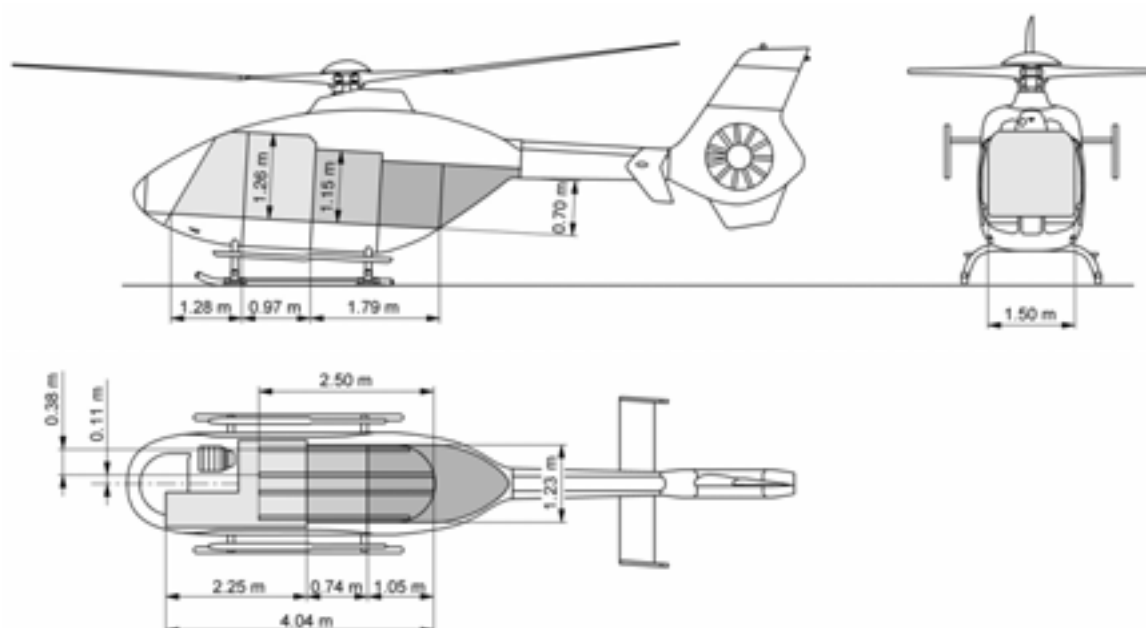


* Rotor turning, controls in neutral position

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2.2 Internal dimensions



	Floor area		Volume	
	m ²	ft ²	m ³	ft ³
Cabin & baggage compartment	4.35	46.83	4.90	173.04
Cockpit (pilot side)	1.15	12.38	1.00	35.31
Total (undivided)	5.50	59.21	5.90	208.35

2.3 Possible cabin arrangement (seats & equipment as option)

Passenger transport	<ul style="list-style-type: none"> ■ 1 or 2 pilots + 7 or 6 passengers ("6 Passenger Transport" version) ■ 1 or 2 pilots + 6 or 5 passengers ("5 Passenger Transport" version) ■ 1 or 2 pilots + 6 or 5 passengers ("5 Corporate Passenger Transport" version) ■ 1 or 2 pilots + 5 or 4 passengers ("4 VIP Passenger Transport" version)
Casualty evacuation	<ul style="list-style-type: none"> ■ 1 pilot + 1 litter + up to 5 seats for doctor and attendants ■ 1 pilot + 2 litters + up to 4 seats for doctor and attendant ■ 2 pilots + 1 litter + up to 4 seats for doctor and attendants ■ 2 pilots + 2 litters + up to 3 seats for doctor and attendant
Freight transport	<ul style="list-style-type: none"> ■ 1 pilot + 4.9 m³ (173.04 ft³) in cabin and cargo compartment

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2.4 Weight

Note : margin $\pm 1.5\%$

	kg	lb
■ Empty weight, wet (in standard aircraft configuration)	1,455	3,208
■ Useful load (for standard aircraft configuration)	1,455	3,208
■ Pilot	80	176
■ Payload and / or fuel	1,375	3,031
■ Maximum take-off weight	2,910	6,415

2.5 Fuel Capacities

Note: Tolerance of fuel figures: $\pm 1\%$
 Fuel density used is 0.8 kg/liter.

	Usable Fuel			Unusable Fuel	
	lb	kg	l	lb	kg
■ Main Tank	1038.6	471.1	588.9	7.5	3.4
■ Supply Tank	196.8	89.3	111.6	9.3	4.2
■ Total	1235.4	560.4	700.5	16.8	7.6

2.6 Engines

2 Pratt & Whitney turbine engines – PW206B2

OR

2 TURBOMECA turbine engines - ARRIUS 2B2

Engine ratings

Thermodynamic limits per engine at SL, ISA

	kW	ch	shp
PW206B2			
■ One Engine Inoperative (OEI), 30 sec power	609	828	816
■ One Engine Inoperative (OEI), 2.0 min power	580	789	777
■ One Engine Inoperative (OEI), MCP	528	718	708
■ Take-Off Power (TOP)	498	677	667
■ Maximum Continuous Power (MCP)	457	621	612

ARRIUS 2B2

■ One Engine Inoperative (OEI), 30 sec power	609	828	816
■ One Engine Inoperative (OEI), 2.0 min power	580	789	777
■ One Engine Inoperative (OEI), MCP	528	718	708
■ Take-Off Power (TOP)	473	643	634
■ Maximum Continuous Power (MCP)	442	601	592

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2.7 Main transmission ratings

Single engine operation		kW	ch	shp
■	30 sec OEI-power	1 x 526	1 x 715	1 x 705
■	2.0 min OEI-power	1 x 513	1 x 698	1 x 687
■	Maximum continuous OEI-power	1 x 368	1 x 501	1 x 493
Twin engine operation				
■	Take-Off Power (TOP)	2 x 320	2 x 435	2 x 429
■	Maximum Continuous Power (MCP)	2 x 283	2 x 385	2 x 380

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3 Standard aircraft definition

GENERAL

- Energy absorbing fuselage
- Tail boom with fixed horizontal stabilizer and two end-plates
- Vertical fin with faired-in fenestron
- Upper deck with fittings for main gearbox, engines, hydraulic and cooling system
- Cowlings for main transmission and engines
- Skid-type landing gear with skid protectors, capable of taking ground-handling wheels
- Long boarding steps, LH and RH
- Maintenance built-in steps and grips
- Exterior painting (single color)

COCKPIT, CABIN AND CARGO COMPARTMENT

- One-level cabin and cargo compartment floor with integrated rails
- Glazed canopy
- Two hinged cockpit doors with sliding window
- Map case in pilot's door
- Two wide passenger sliding doors
- Two rear hinged clam-shell doors
- Longitudinally adjustable energy absorbing pilot and copilot seats with head rest and 4-point safety belts with automatic locking system
- Cabin boarding grips (LH and RH)
- Interior paneling with integrated basic sound insulation
- Flight controls (pilot side)
- Engine controls with manual engine back-up system at pilot's collective pitch lever
- Instrument panel with extension on pilot's side and glare shield
- Ram-air and electrical ventilating system for cockpit and cabin
- Headset holder in the cockpit
- Headset holder in the cabin
- Portable fire extinguisher
- Stowage net for first aid kit at the LH rear clam-shell door
- Flash light (torch)
- 4 Mobile tie-down rings

BASIC INSTRUMENTATION

- Central Panel Display System (CPDS), consisting of:
 - Caution Advisory Display (CAD) with indication of:
 - Caution and advisory information
 - Fuel quantity indication
 - Vehicle and Engine Management Display (VEMD) with indication of:
 - Torque
 - Engine parameters (N1-RPM (for P&W) or Δ N1-RPM (for TM), oil pressure, oil temperature, Turbine Outlet Temperature (TOT), engine/FADEC rep EEC failure and parameter code messages, self diagnoses)
 - FLI (First Limit Indicator) for TQ, TOT, N1 (for P&W) or Δ N1 (for TM) as analogue display
 - Main transmission parameters (oil pressure, oil temp.)
 - Dual ammeter (generator)
 - Ammeter (battery)
 - Dual voltmeter
 - Outside Air Temperature (OAT)
 - Parameters of optional equipment (e.g. internal long range fuel tank)
 - Engine cycle counter (on flight report page)
- Clock (2")
- Magnetic compass
- Triple (rotor and engines) RPM-indicator (2")
- Standard instruments: (single pilot) 1)
 - Encoding altimeter (3")
 - Airspeed indicator (3")
 - Vertical speed indicator (3")
- Warning unit:
 - Engine fire warning with fuel emergency shut-off
 - Warning lights
 - Aural warning
- Main switch panel:
 - DC power control
 - Digital engine control (FADEC)
- Pitot / static system with electrical heated pitot tube, pilot side
- Static pressure crossover system
- Air Data Computer

1) If glass cockpit instrumentation is chosen as optional equipment, these standard instruments are deleted and an altimeter (2") and an airspeed indicator (2") as back-up instruments are added.

POWER PLANT

- Two PRATT & WHITNEY PW206B2 turbine engines or Two TURBOMECA ARRIUS 2B2 turbine engines
- These 2 engines are equipped with:
 - fire detectors
 - electronic engine control (FADEC-BOX)
 - chip detectors with quick-disconnect plugs
 - overspeed protection system
 - twin-engine OEI-training mode
- Oil cooling and lubricating system with thermostatic valve
- Crash resistant fuel system with a flexible bladder-type fuel main tank and supply tank (split into two sections)
- Automatically controlled variable rotor speed system
- Fuel tank filler flap, lockable

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TRANSMISSION SYSTEM

- Flat-shaped main gearbox with two stages
- Chip detector system with quick-disconnect plug (main gearbox)
- Redundant oil cooling and lubrication system
- Main gearbox attachment with Anti-Resonance Isolation System (ARIS)
- Free wheel assemblies in the engine input drives
- Tail rotor drive shaft
- Tail rotor gearbox with splash lubrication and oil level sight gauge
- Chip detector system with quick-disconnect plug (tail rotor gearbox)

ROTOR AND FLIGHT CONTROLS

- Bearingless Main Rotor system (BMR), consisting of:
 - Rotor head/mast in one piece
 - Four fiber-reinforced composite main rotor blades with anti-erosion strips, control cuff, elastomeric lead-lag dampers and special blade tip painting
- Main rotor control system with dual hydraulic boost system
- Electrical trim system (cyclic)
- Basic provisions for an easy integration of a track and balance system
- Fenestron-type tail rotor with ten metal blades (asymmetric blade spacing) and stator
- Tail rotor gearbox cover
- Tail rotor control system with flexball cable and single hydraulic booster
- Yaw-SAS (Stability Augmentation System)
- Mast moment system

ELECTRICAL INSTALLATION

- Power generation system:
 - Two starter/generators (2 x 160 A, 28 VDC)
 - Nickel-Cadmium battery, (24 V, 17 Ah)
 - External power connector (STANAG 3302)
- Power distribution system:
 - Two primary busbars
 - Two shedding busbars
 - Two essential busbars
 - Two high load busbars (80 A) - for optional equipment only
 - Two high power busbars (200 A)
- Battery bus
- One utility receptacle in LH side of cargo compartment (28VDC, 10A)
- Lighting:
 - Anti-collision warning light (red flashing)
 - Fixed, nose-mounted landing light (250 W)
 - Three position lights (red, green, white)
 - Adjustable instrument lighting
 - One utility light in the cockpit
 - 5 spot-lights in the cabin
 - One light in cargo compartment RH side

GROUND HANDLING KIT ¹

- Two ground-handling wheels
- Basic aircraft covers (short time)
- Main rotor blade tie-down lash bags
- Oil drain hoses
- Fuel tank drain device
- Keys for cockpit doors, cabin doors, baggage compartment doors and tank flap (one-key system)
- Battery key
- Lifting points

DOCUMENTATION

STANDARD DOCUMENTATION:

- Flight Manual ²⁾
- Pilots-Checklist ²⁾
- Logbook
- Historical Record
- CD-ROM including AMM, SDS, MSM, WDM, IPC ^{1) 2) 3)}
- Master Servicing Manual (MSM) ^{1) 2)}
- Service Bulletin Catalogue (SB) ^{1) 2)}
- List of Applicable Publications (LOAP) ^{1) 2)}
- Avionics Manual (for avionics installed by Eurocopter) ^{1) 3)}

STANDARD DOCUMENTATION (contd.):

- Engine Documentation ^{1) 2)} including:
 - Maintenance Manual
 - Illustrated Parts Catalogue (IPC)
 - Service Bulletins

OPTIONAL DOCUMENTATION (hard copy format):

- Aircraft Maintenance Manual (AMM) ^{1) 2) 3)}
- System Description Section (SDS) ^{1) 2) 3)}
- Wiring Diagram Manual (WDM) ^{1) 2) 3)}
- Illustrated Parts Catalogue (IPC) ^{1) 2)}

¹ Weight not included in the standard helicopter empty weight

² Documents revision service included for 5 years

³ Customized documentation

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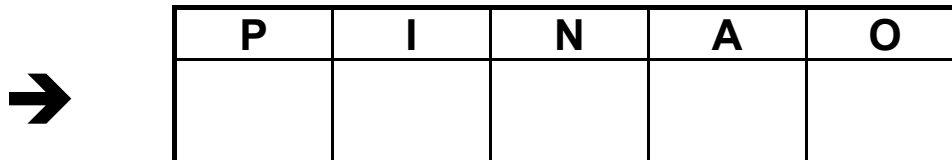
4 Basic configuration choice

Selection of a PINAO package

Please select your PINAO code according to your operational needs by using the following table:

Pilot	P	Single	Dual	Single/Dual
		1	2	3
VFR/IFR	I	VFR	IFR	
		0	1	
Day/night	N	day	night	
		0	1	
Cat. A	A	no	yes	
		0	1	
JAR-OPS 3 equipment *	O	no	yes	
		0	1	

* This offered equipment package is derived from JAR-OPS 3 Amendment 3. It does not cover oxygen equipment and equipment required for over water operations. As the national operating rule may differ from the JAR-OPS 3 Amendment 3, the operator has to contact its national authority to assure that the planned equipment configuration is acceptable for the intended kind of operation.



Use this code to find your required “PINAO” packages on the following pages.

- As a general guidance, use the diagram on the next page
- One PINAO code may lead to different PINAO packages

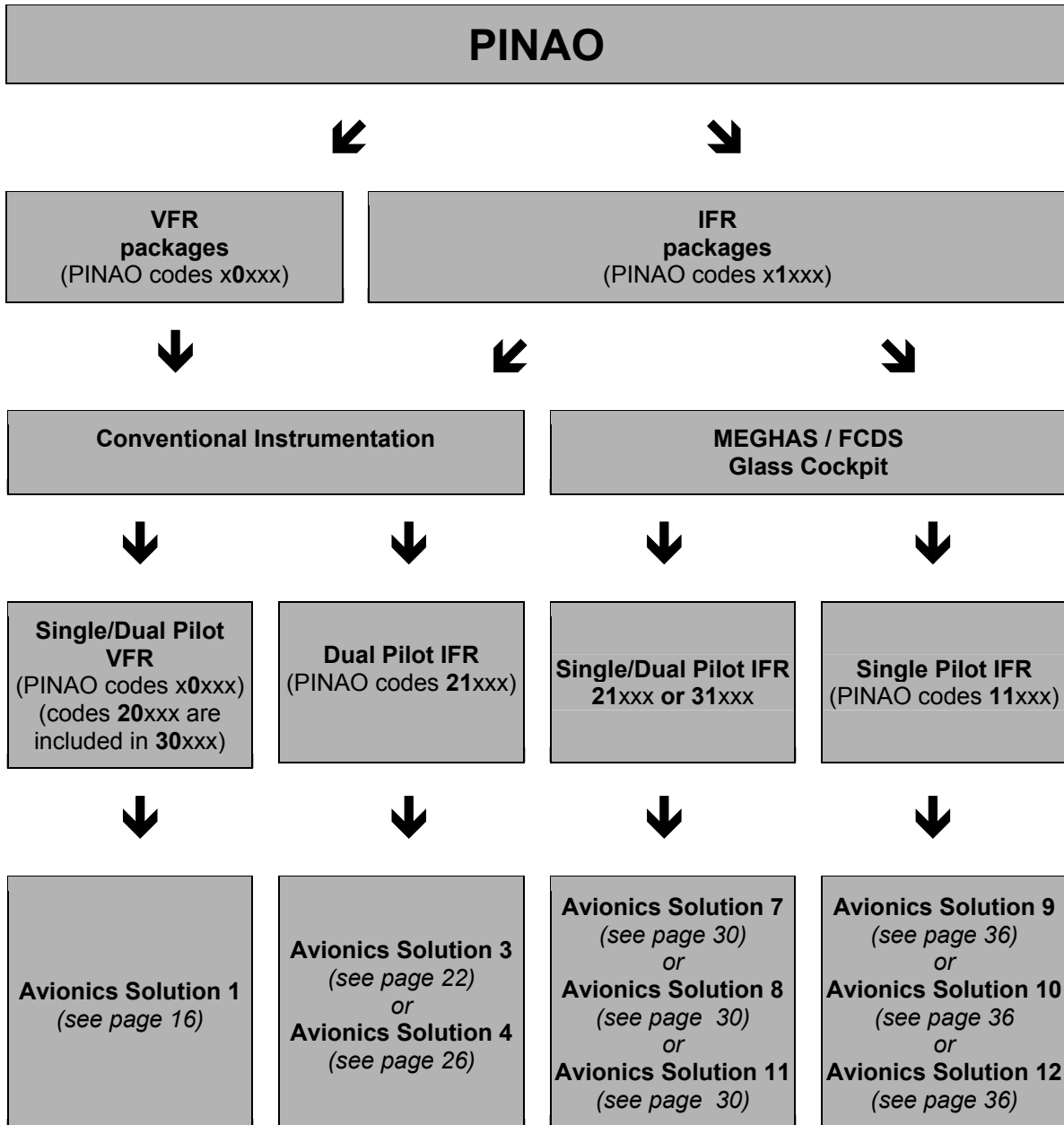
IMPORTANT NOTES:

- Avionics solutions 2, 5 and 6 are no more available.
- For IFR, there is no difference between “day” and “night”. Therefore only IFR “night” PINAO packages are listed.
- All possible PINAO codes are listed in the following pages.
- Weight margin in this chapter: $\pm 3\%$
- For all intercom systems, the following impedances are standard: LOW IMPEDANCE →
Microphone: $5\ \Omega$ (dynamic) / Headset: $8\ \Omega$ (military - EUROCOPTER typical)

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Use this diagram to find the appropriate Avionics Solution based on your individual PINAO selection.



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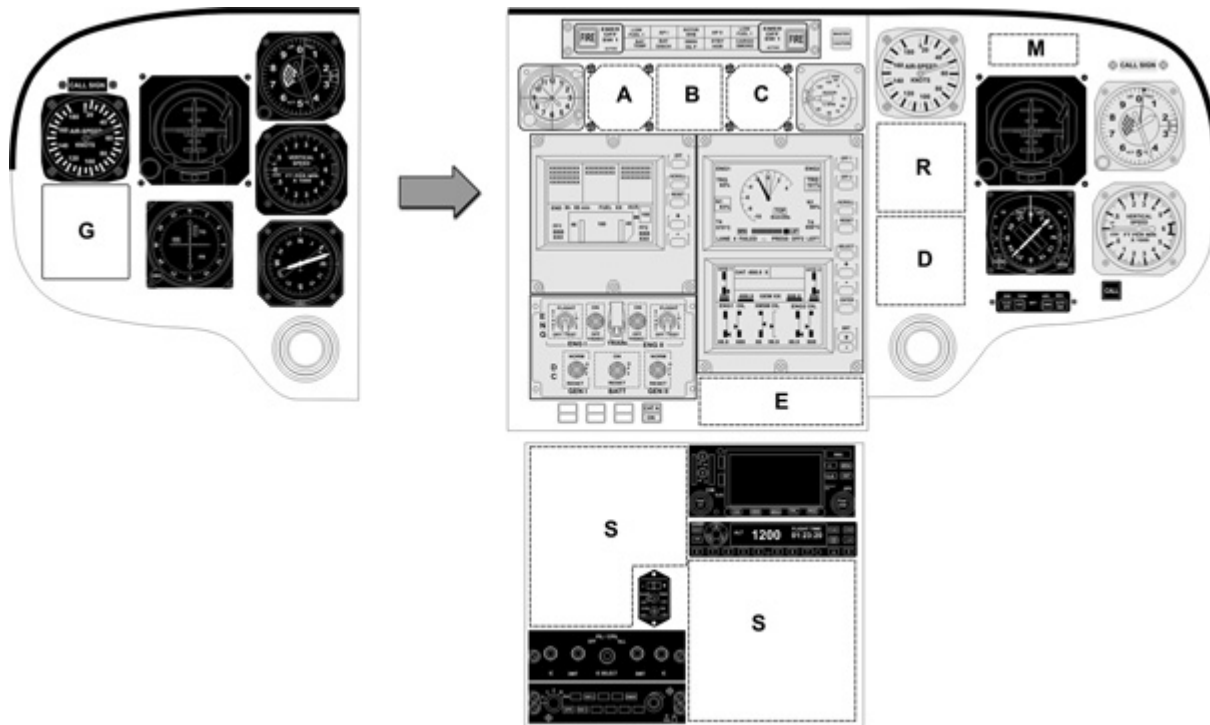
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4.1 VFR packages (based on Avionics Solution 1)

4.1.1 Instrument panel overview



Additional space:

- A - for 2" back-up airspeed indicator (used in MEGHAS/FCDS "Glass cockpit" solutions)
- B - for 2" standby horizon AI 804 DC
- C - for 2" back-up altimeter (used in MEGHAS/FCDS "Glass cockpit" solutions)
- D - e.g. for 3" RMI
- E - e.g. for DME or ELT remote control
- G - e.g. for 2nd gyro 205 1BL (GOODRICH)
- M - e.g. for marker lights
- R - e.g. for 3" radar altimeter indicator (KNI 416)
- S - e.g. for 2nd GPS/COM/NAV GNS430 or other equipment

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4.1.2 Content of Avionics Solution 1 (basic for all VFR PINAO packages)

<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>
	L2300-001-04	Avionics Solution 1, consisting of:
<i>Intercom System</i>		
08-16053-A	L2341-192-01	Audio/Comm. control system (pilot) AS 3100-12 (BECKER) incl. Intercom Select Panel (ICS mode selector)
08-16053-A	L2341-293-01	Intercom amplifier IC 3100-4 (BECKER)
<i>Transponder</i>		
08-22026-A	L2325-092-12	Transponder (Mode S) GTX 330 (GARMIN)
<i>Radio Switch</i>		
08-29003-A	L2480-090-01	Avionics/Radio master switches (Special ECD)
<i>GPS/NAV/COM</i>		
08-43018-B	L3442-092-00	GPS / NAV / COM GNS 430, pilot (GARMIN) with I-panel annunciation/switch unit MD 41 (MIDCONTINENT)
<i>Conventional instruments</i>		
08-51012-A	L3425-092-02	4" Artificial horizon GH14-391, pilot (HONEYWELL)
08-52013-A	L3421-092-02	Gyro Magnetic Heading System KCS 55 A (HONEYWELL) incl. KG-102A, KMT-112, KA-51B with HSI KI-525A, pilot
<i>Miscellaneous</i>		
08-99000-A	L0000-150-01	Avionics Solution 1 interconnection / wiring

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4.1.3 Minimum required equipment

Minimum required equipment for Avionics Solution 1 – Single pilot					PINAO						
Document reference	Commercial reference	Title	Weight (margin \pm 3 %)		10000	10001 ⁴	10010	10011 ⁴	10100	10110	10111 ⁴
			kg	lb							
05-03007-A	L2562-001-00	First aid kit	1.3	2.9		X		X			X
05-22008-A	L2621-001-00	Engine fire extinguishing system	3.6	7.9			X	X		X	X
05-33001-A	L3113-001-00	Slant panel	0.8	1.8	X	X	X	X	X	X	X
05-33002-A	L3113-004-00	Center console	2.3	5.1	X	X	X	X	X	X	X
05-41004-B	L2104-100-00	Bleed air heating system ⁵	6.6	14.6	X	X	X	X	X	X	X
05-44002-A	L2122-001-00	Ventilation extruder without copilot I-panel extension	0.3	0.7	X	X	X	X	X	X	X
05-61010-A	L2433-003-00	Battery, type "Saft", ULM, 27 Ah, 24 V instead of standard battery	8.2	18.1		X	X	X		X	X
05-62010-B	L2420-002-00	AC System (350VA)	3.2	7.1	X	X	X	X	X	X	X
05-63003-A	L2432-001-00	Starter/generators (2 x 200 A, 28 VDC), instead of standard generators	3.6	7.9		X	X	X	X	X	X
06-45023-A	L3343-003-00	Landing & search light, 450 W	3.4	7.5					X	X	X
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. opt.	3.8	8.4		X		X			X
08-00001-A	L2300-001-04	Avionics Solution 1	39.7	87.5	X	X	X	X	X	X	X
08-21014-A	L3441-090-04	Radar altimeter KRA 405B (HONEYWELL)	4.8	10.6			X	X		X	X
08-21014-A	L3441-092-03	Radar altimeter indicator KNI 416 (HONEYWELL)	1.2	2.6			X	X		X	X
08-51013-A	L3425-806-51	2" std-by horizon AI 804 DC (GOODRICH) with emergency battery	6.6	14.6			X	X		X	X

⁴ for VFR flights on routes not navigated by reference to visual landmarks, a 2nd GPS/NAV/COM GNS430 (see possible add-ons) is required.

⁵ For helicopters dedicated for EMS select "Bleed air heating system: EMS version L2104-003-00" (05-41004-A) (7.0 kg / 15.4 lb.)

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Minimum required equipment for Avionics Solution 1- Single/Dual pilot					PINAO						
Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)		3000	3001 ⁶	3010	3011 ⁶	30100	30110	3011 ⁶
			kg	lb							
05-03007-A	L2562-001-00	First aid kit	1.3	2.9	X	X					X
05-22008-A	L2621-001-00	Engine fire extinguishing system	3.6	7.9			X	X		X	X
05-33001-A	L3113-001-00	Slant panel	0.8	1.8	X	X	X	X	X	X	X
05-33002-A	L3113-004-00	Center console	2.3	5.1	X	X	X	X	X	X	X
05-37016-A	L6701-001-00	Copilot flight controls	6.0	13.2	X	X	X	X	X	X	X
05-38010-A	L3111-001-00	10" copilot instrument panel with glare shield	2.8	6.2	X	X	X	X	X	X	X
05-41004-B	L2104-100-00	Bleed air heating system ⁷	6.6	14.6	X	X	X	X	X	X	X
05-61010-A	L2433-003-00	Battery, type "Saft", ULM, 27 Ah, 24 V instead of standard battery	8.2	18.1	X	X	X	X	X	X	X
05-62010-B	L2420-002-00	AC System (350VA)	3.2	7.1	X	X	X	X	X	X	X
05-63003-A	L2432-001-00	Starter/generators (2 x 200 A, 28 VDC), instead of standard generators	3.6	7.9	X	X	X	X	X	X	X
06-45023-A	L3343-003-00	Landing & search light, 450 W	3.4	7.5					X	X	X
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. opt.	3.8	8.4	X		X				X
08-00001-A	L2300-001-04	Avionics Solution 1	39.7	87.5	X	X	X	X	X	X	X
08-16053-A	L2341-191-01	Audio/Comm. control system (2nd station - copilot) AS 3100-12 (BECKER)	2.0	4.4	X	X	X	X	X	X	X
08-21014-A	L3441-090-04	Radar Altimeter KRA 405B (HONEYWELL)	4.8	10.6			X	X		X	X
08-21014-A	L3441-092-03	Radar altimeter indicator KNI 416 (HONEYWELL)	1.2	2.6			X	X		X	X
08-51012-A	L3425-091-02	4" artificial horizon GH14-391, copilot (HONEYWELL)	2.5	5.5	X	X	X	X	X	X	X
08-51013-A	L3425-806-51	2" std-by horizon AI 804 DC (GOODRICH) with emergency battery	6.6	14.6			X	X		X	X
08-52010-A	L3421-091-02	2nd directional Gyro (3" unslaved indicator) 205 1BL on copilot side (GOODRICH)	1.5	3.3					X		X
08-54001-A	L3411-001-00	Copilot pitot static system	1.4	3.1	X	X	X	X	X	X	X
08-60003-A	L3412-002-00	Copilot 3" instruments (airspeed indicator, altimeter, vertical speed indicator (UNITED INSTRUMENTS))	1.7	3.8	X	X	X	X	X	X	X
08-61010-A	L3166-091-04	RMI KI 229, copilot (HONEYWELL)	2.3	5.1	X	X	X	X	X	X	X
08-61011-A	L3167-091-02	CDI KI 204, copilot (HONEYWELL)	1.2	2.6	X	X	X	X	X	X	X

⁶ for VFR flights on routes not navigated by reference to visual landmarks, a 2nd GPS/NAV/COM GNS430 (see possible add-ons) is required.

⁷ For helicopters dedicated for EMS select "Bleed air heating system: EMS version L2104-003-00" (05-41004-A) alternatively (7.0 kg / 15.4 lb.)

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

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

4.1.4 Possible add-ons

Possible add-ons for Avionics Solution 1 – Single Pilot					PINAO						
Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)		1000	1001	10010	10011	10100	10110	10111
			kg	lb							
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. opt.	3.8	8.4	X		X		X	X	
08-16053-A	L2341-191-01	Audio/Comm. control system (2nd station - copilot) AS 3100-12 (BECKER)	2.0	4.4	X	X	X	X	X	X	X
08-21014-A	L3441-090-04	Radar altimeter KRA 405B (HONEYWELL)	4.8	10.6							
	L3441-092-03	Radar altimeter indicator KNI 416 (HONEYWELL)	1.2	2.6	X	X			X		
08-25014-A	L3455-092-03	DME KN 63	2.3	5.1	X	X	X	X	X	X	X
	L3169-092-02	DME indicator KDI 572 (HONEYWELL)	0.8	1.8							
08-26010-A	L3431-092-02	Marker Beacon receiver / lights KR 21 (HONEYWELL)	1.2	2.6	X	X	X	X	X	X	X
08-51013-A	L3425-806-51	2" std-by horizon AI 804 DC (GOODRICH) incl. back-up battery	6.6	14.6	X	X			X		
08-71002-B	L2217-001-10	VFR SAS (VFR pitch/roll Stability Augmentation System)	8.5	18.8	X	X	X	X	X	X	X

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

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Possible add-ons for Avionics Solutions 1 – Dual pilot Single - Dual pilot					PINAO						
Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)		3000	3001	3010	3011	30100	30110	30111
			kg	lb							
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. opt.	3.8	8.4	X		X		X	X	
08-21014-A	L3441-090-04	Radar altimeter KRA 405B (HONEYWELL)	4.8	10.6							
	L3441-092-03	Radar altimeter indicator KNI 416 (HONEYWELL)	1.2	2.6	X	X			X		
08-25014-A	L3455-092-03	DME KN 63	2.3	5.1	X	X	X	X	X	X	X
	L3169-092-02	DME indicator KDI 572 (HONEYWELL)	0.8	1.8	X	X	X	X	X	X	X
08-26010-A	L3431-092-02	Marker Beacon receiver / lights KR 21 (HONEYWELL)	1.2	2.6	X	X	X	X	X	X	X
08-43018-B	L3442-091-00	GPS/NAV/COM GNS 430, copilot (GARMIN) with I-panel annunciation/switch unit MD 41 (MIDCONT.)	9.5	20.9							
	L3167-091-01	CDI KI206 instead of CDI KI 204 (HONEYWELL)	1.3	2.9	X	X	X	X	X	X	X
08-51013-A	L3425-806-51	2" std-by horizon AI 804 DC (GOODRICH) included back-up battery	6.6	14.6	X	X			X		
08-71002-B	L2217-001-10	VFR SAS (VFR pitch/roll Stability Augmentation System)	8.5	18.8	X	X	X	X	X	X	X

4.1.5 On request items

- Multifunction display KMD 850 (HONEYWELL) for weather radar or digital map
- Color weather radar RDR2000 (HONEYWELL) on KMD850 display
- Moving Map EURONAV IV - RN6 (EURO AVIONICS)

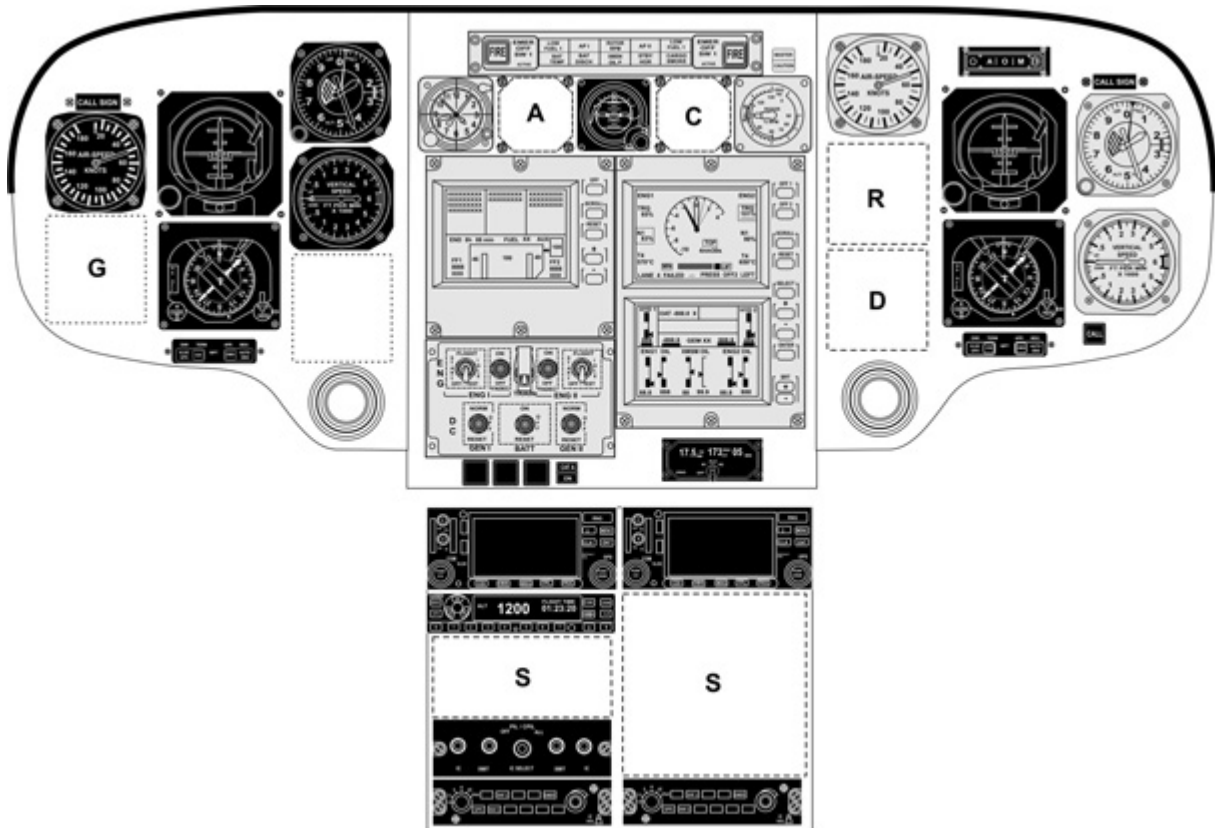
4.1.6 Further avionics add-ons see chapter 6 page 64

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

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

4.2 Dual pilot IFR packages, conventional instrumentation, basic (based on Avionics Solution 3)

4.2.1 Instrument panel overview



Additional space:

A - for 2" back-up airspeed indicator (used in MEGHAS/FCDS "Glass cockpit" solutions)

C - for 2" back-up altimeter (used in MEGHAS/FCDS "Glass cockpit" solutions)

D - e.g. for 3" RMI or 3" CDI

G - e.g. for 2nd gyro 205 1BL (GOODRICH)

R - e.g. for 3" radar altimeter indicator (KNI 416)

S - e.g. for tactical or other optional equipment

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

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

4.2.2 Contents of Avionics Solution 3

<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>
	L2300-003-04	Avionics Solution 3, consisting of:
<i>Intercom System</i>		
08-16053-A	L2341-191-01	Audio/Comm. control system (2nd station - copilot) AS 3100-12 (BECKER)
08-16053-A	L2341-192-01	Audio/Comm. control system (pilot) AS 3100-12 (BECKER) incl. Intercom Select Panel (ICS mode selector)
08-16053-A	L2341-293-01	Intercom amplifier IC 3100-4 (BECKER)
<i>Transponder</i>		
08-22026-A	L2325-092-12	Transponder (Mode S) GTX 330 (GARMIN)
<i>DME</i>		
08-25014-A	L3169-092-02	DME indicator KDI 572 (HONEYWELL)
08-25014-A	L3455-092-03	Distance measuring equipment KN 63 (HONEYWELL)
<i>VOR / ILS / MKR receivers</i>		
08-26010-A	L3431-092-02	Marker beacon receiver / lights KR 21(HONEYWELL)
<i>Radio Switch</i>		
08-29003-A	L2480-090-01	Avionics/Radio master switches (Special ECD)
<i>GPS/NAV/COM</i>		
08-43018-B	L3442-091-00	GPS / NAV / COM GNS 430, copilot (GARMIN) with I-panel annunciation/switch unit MD 41 (MIDCONTINENT)
08-43018-B	L3442-092-00	GPS / NAV / COM GNS 430, pilot (GARMIN) with I-panel annunciation/switch unit MD 41 (MIDCONTINENT)
<i>Conventional instruments</i>		
08-51012-A	L3425-091-02	4" Artificial horizon GH14-391, copilot (HONEYWELL)
08-51012-A	L3425-092-02	4" Artificial horizon GH14-391, pilot (HONEYWELL)
08-51013-A	L3425-806-51	2" Stand-by horizon AI 804 DC incl. battery (GOODRICH)
08-52014-A	L3421-092-01	Gyro Magnetic Heading System C14D (HONEYWELL)
08-60003-A	L3412-002-00	Copilot 3" instruments (airspeed indicator, altimeter, vertical speed indicator (UNITED INSTRUMENTS)
08-61012-A	L3165-091-01	Horizontal Situation Indicator - KPI 552, copilot (HONEYWELL)
08-61012-A	L3165-092-01	Horizontal Situation Indicator - KPI 552, pilot (HONEYWELL)
<i>Miscellaneous</i>		
08-99000-A	L0000-150-03	Avionics Solution 3 interconnection / wiring

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

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

4.2.3 Minimum required equipment

Minimum required equipment for Avionics Solution 3					PINAO		
Document reference	Commercial reference	Title	Weight (margin \pm 3 %)		2110	2110	2111
			kg	lb			
05-03007-A	L2562-001-00	First aid kit	1.3	2.9			X
05-22008-A	L2621-001-00	Engine fire extinguishing system	3.6	7.9		X	X
05-33001-A	L3113-001-00	Slant panel	0.8	1.8	X	X	X
05-33002-A	L3113-004-00	Center console	2.3	5.1	X	X	X
05-37016-A	L6701-001-00	Copilot flight controls	6.0	13.2	X	X	X
05-38010-A	L3111-001-00	10" copilot instrument panel with glare shield	2.8	6.2	X	X	X
05-39006-A	L2514-003-01	Map case in copilot door	0.5	1.1	X	X	X
05-39007-A	L3111-001-10	Map case on instrument panel glare shield	0.6	1.3	X	X	X
05-39008-A	L3113-004-10	Illuminated chart holder for pilot side	0.9	2.0			X
05-41004-B	L2104-100-00	Bleed air heating system ⁸	6.6	14.6	X	X	X
05-61010-A	L2433-006-00	Battery, type "Saft", ULM, 40 Ah, 24 V instead of standard battery	16.8	37.0	X	X	X
05-62010-B	L2420-003-00	Dual AC System (2 x 350VA)	6.6	14.6	X	X	X
05-63003-A	L2432-001-00	Starter/generators (2 x 200 A, 28 VDC), instead of standard one	3.6	7.9	X	X	X
06-45023-A	L3343-003-00	Landing & search light, 450 W	3.4	7.5	X	X	X
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. opt.	3.8	8.4			X
08-00002-A	L2300-003-04	Avionics Solution 3	78.1	172.2	X	X	X
08-21014-A	L3441-090-04	Radar altimeter KRA 405B (HONEYWELL)	4.8	10.6		X	X
08-21014-A	L3441-092-03	Radar altimeter indicator KNI 416 (HONEYWELL)	1.2	2.6		X	X
08-52010-A	L3421-091-02	2nd directional Gyro (3" unslaved indicator) 205 1BL (GOODRICH) on copilot side	1.5	3.3	X	X	X
08-54001-A	L3411-001-00	Copilot pitot static system	1.4	3.1	X	X	X
08-71002-B	L2217-001-50	IFR pitch/roll SAS	12.2	26.9	X	X	X

⁸ For helicopters dedicated for EMS select "Bleed air heating system: EMS version L2104-003-00" (05-41004-A) (7.0 kg / 15.4 lb.).

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

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

4.2.4 Possible add-ons

Possible add-ons for Avionics Solution 3						PINAO		
Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)		21100	21110	21111	
			kg	lb				
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. opt.	3.8	8.4	X	X		
08-21014-A	L3441-090-04	Radar altimeter KRA 405B (HONEYWELL)	4.8	10.6	X			
	L3441-092-03	Radar altimeter indicator KNI 416 (HONEYWELL)	1.2	2.6				
08-24015-A	L3452-092-17	ADF system DFS-43A (CHELTON/WULFSBERG)	9.6	21.2	X	X	X	
	L3452-092-08	ADF control unit CD-432B (CHELTON/WULFSBERG)	1.2	2.6				

4.2.5 On request items

- Multifunction display KMD 850 (HONEYWELL) for weather radar or digital map
- Color weather radar RDR2000 (HONEYWELL) on KMD850 display
- Moving Map EURONAV IV - RN6 (EURO AVIONICS)

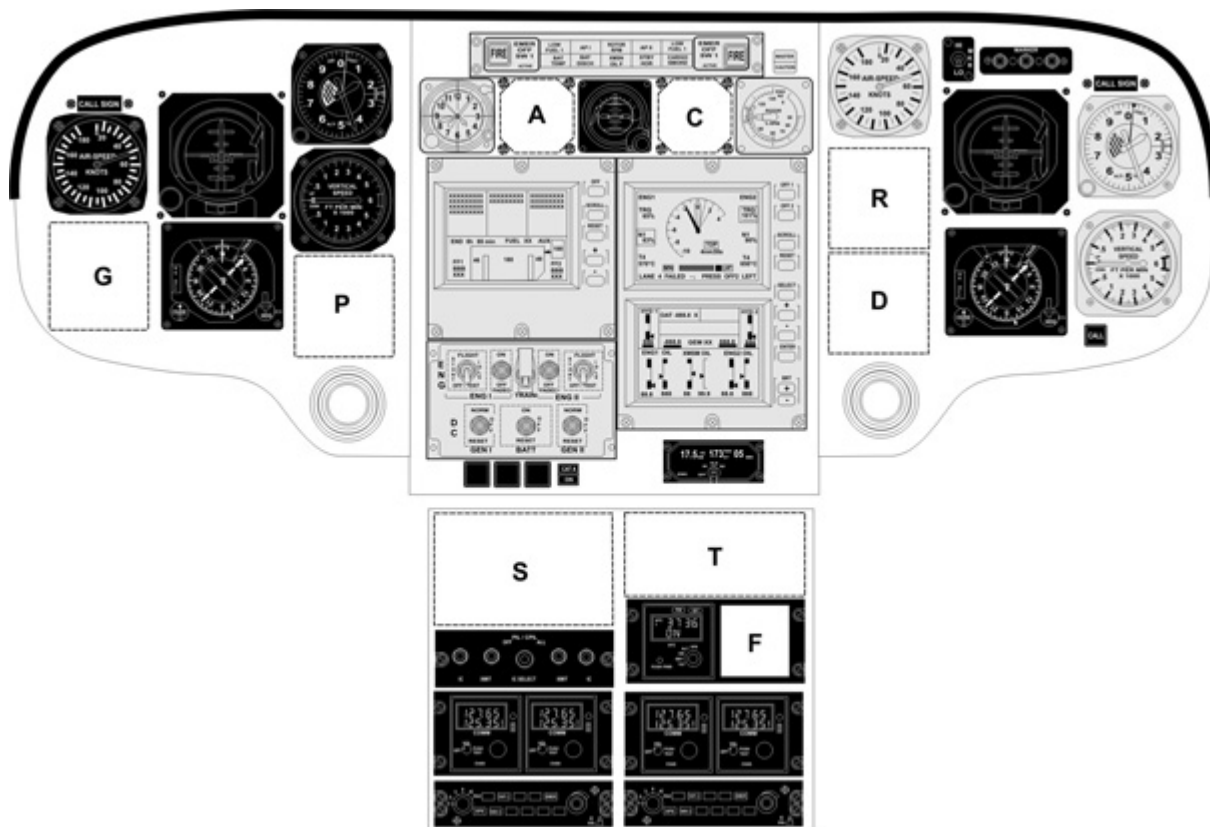
4.2.6 Further avionics add-ons see chapter 6 page 64

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

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

4.3 Dual pilot IFR packages, conventional instrumentation, enhanced (based on Avionics Solution 4)

4.3.1 Instrument panel overview



Additional space:

A - for 2" back-up airspeed indicator (used in MEGHAS/FCDS "Glass cockpit" solutions)

C - for 2" back-up altimeter (used in MEGHAS/FCDS "Glass cockpit" solutions)

D - e.g. for 3" RMI or 3" CDI

F - e.g. for ADF control unit (CD-432B)

G - e.g. for 2nd gyro 205 1BL (GOODRICH)

P - e.g. for 3" CDI or 3" RMI

R - e.g. for 3" radar altimeter indicator (KNI 416)

S / T - e.g. for GPS receiver or other optional equipment

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

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

4.3.2 Contents of Avionics Solution 4

Document reference	Commercial reference	Title
	L2300-004-04	Avionics Solution 4, consisting of:
<i>VHF AM</i>		
08-11023-A	L2313-091-03	VHF AM/COM. system, copilot KTR 908/KFS 598 A (HONEYWELL)
08-11023-A	L2313-092-03	VHF AM/COM system, pilot KTR 908 / KFS 598A (HONEYWELL)
<i>Intercom System</i>		
08-16053-A	L2341-191-01	Audio/Comm. control system (2nd station - copilot) AS 3100-12 (BECKER)
08-16053-A	L2341-192-01	Audio/Comm. control system (pilot) AS 3100-12 (BECKER) incl. Intercom Select Panel (ICS mode selector)
08-16053-A	L2341-293-01	Intercom amplifier IC 3100-4 (BECKER)
<i>Transponder</i>		
08-22027-A	L2325-092-06	Transponder (Mode S) MST 67A (HONEYWELL)
08-22027-A	L2325-092-15	Transponder control unit PS 578A (HONEYWELL)
<i>DME</i>		
08-25014-A	L3169-092-02	DME indicator KDI 572 (HONEYWELL)
08-25025-A	L3455-092-01	Distance measuring equipment KDM 706 A (HONEYWELL)
<i>VOR / ILS /MKR receivers</i>		
08-26025-A	L3432-091-03	VOR/ILS/MKR Navigation system, copilot KNR 634 A / KFS 564 A (HONEYWELL)
08-26025-A	L3432-092-03	VOR/ILS/MKR Navigation system, pilot KNR 634 A / KFS 564 A (HONEYWELL)
08-26028-A	L3431-092-01	Marker beacon lights KA 35 A (HONEYWELL)
<i>Radio Switch</i>		
08-29003-A	L2480-090-01	Avionics/Radio master switches (Special ECD)
<i>Conventional instruments</i>		
08-51012-A	L3425-091-02	4" Artificial horizon GH14-391, copilot (HONEYWELL)
08-51012-A	L3425-092-02	4" artificial horizon GH14-391, pilot (HONEYWELL)
08-51013-A	L3425-806-51	2" Stand-by horizon AI 804 DC incl. battery (GOODRICH)
08-52014-A	L3421-092-01	Gyro Magnetic Heading System C14D (HONEYWELL)
08-60003-A	L3412-002-00	Copilot 3" instruments (airspeed indicator, altimeter, vertical speed indicator (UNITED INSTRUMENTS)
08-61012-A	L3165-091-01	Horizontal Situation Indicator - KPI 552, copilot (HONEYWELL)
08-61012-A	L3165-092-01	Horizontal Situation Indicator - KPI 552, pilot (HONEYWELL)
<i>Miscellaneous</i>		
08-99000-A	L0000-150-04	Avionics Solution 4 interconnection / wiring

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

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

4.3.3 Minimum required equipment

Minimum required equipment for Avionics Solution 4						PINAO		
Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)		2110	2110	2111	
			kg	lb				
05-03007-A	L2562-001-00	First aid kit	1.3	2.9			X	
05-22008-A	L2621-001-00	Engine fire extinguishing system	3.6	7.9		X	X	
05-33001-A	L3113-001-00	Slant panel	0.8	1.8	X	X	X	
05-33002-A	L3113-004-00	Center console	2.3	5.1	X	X	X	
05-34002-A	L2576-001-00	Avionics compartment	4.2	9.3	X	X	X	
05-37016-A	L6701-001-00	Copilot flight controls	6.0	13.2	X	X	X	
05-38010-A	L3111-001-00	10" copilot instrument panel with glare shield	2.8	6.2	X	X	X	
05-39006-A	L2514-003-01	Map case in copilot door	0.5	1.1	X	X	X	
05-39007-A	L3111-001-10	Map case on instrument panel glare shield	0.6	1.3	X	X	X	
05-39008-A	L3113-004-10	Illuminated chart holder for pilot side	0.9	2.0			X	
05-41004-B	L2104-100-00	Bleed air heating system ⁹	6.6	14.6	X	X	X	
05-61010-A	L2433-006-00	Battery, type "Saff", ULM, 40 Ah, 24 V instead of standard battery	16.8	37.0	X	X	X	
05-62010-B	L2420-003-00	Dual AC System (2 x 350VA)	6.6	14.6	X	X	X	
05-63003-A	L2432-001-00	Starter/generators (2 x 200 A, 28 VDC), instead of std one	3.6	7.9	X	X	X	
06-45023-A	L3343-003-00	Landing & search light, 450 W	3.4	7.5	X	X	X	
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. opt. (GPS receiver required)	3.8	8.4			X	
08-00003-A	L2300-004-04	Avionics Solution 4	78.3	172.6	X	X	X	
08-21014-A	L3441-090-04	Radar altimeter KRA 405B (HONEYWELL)	4.8	10.6		X	X	
08-21014-A	L3441-092-03	Radar altimeter indicator KNI 416 (HONEYWELL)	1.2	2.6		X	X	
08-52010-A	L3421-091-02	2nd directional Gyro (3" unslaved indicator) 205 1BL (GOODRICH) on copilot side	1.5	3.3	X	X	X	
08-54001-A	L3411-001-00	Copilot pitot static system	1.4	3.1	X	X	X	
08-71002-B	L2217-001-50	IFR pitch/roll SAS	12.2	26.9	X	X	X	

⁹ For helicopters dedicated for EMS select "Bleed air heating system: EMS version L2104-003-00" (05-41004-A) (7.0 kg / 15.4 lb.).

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

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

4.3.4 Possible add-ons

Possible add-ons for Avionics Solution 4						PINA0		
Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)		21100	21110	21111	
			kg	lb				
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. opt. (GPS receiver required)	3.8	8.4	X	X		
08-21014-A	L3441-090-04	Radar altimeter KRA 405B (HONEYWELL)	4.8	10.6	X			
	L3441-092-03	Radar altimeter indicator KNI 416 (HONEYWELL)	1.2	2.6				
08-24015-A	L3452-092-17	ADF system DFS-43A (CHELTON/WULFSBERG)	9.6	21.2	X	X	X	
	L3452-092-08	ADF control unit CD-432B CHELTON/WULFSBERG	1.2	2.6				
08-43017-A	L3442-092-12	GPS Nav. system 2101 I/O Approach Plus (FREE FLIGHT)	6.0	13.2	X	X	X	
08-63009-A	L3442-092-80	GPS indication on HSI (KPI 552)	2.9	6.4	X	X	X	

4.3.5 On request items

- Multifunction display KMD 850 (HONEYWELL) for weather radar or digital map
- Color weather radar RDR2000 (HONEYWELL) on KMD850 display
- Moving Map EURONAV IV - RN6 (EURO AVIONICS)

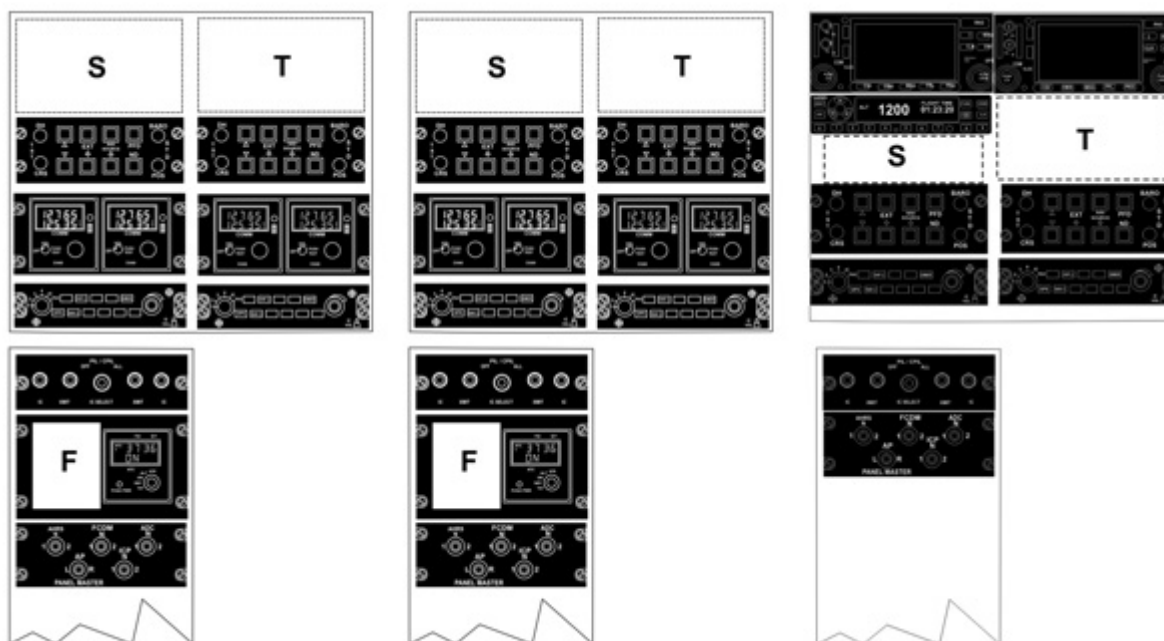
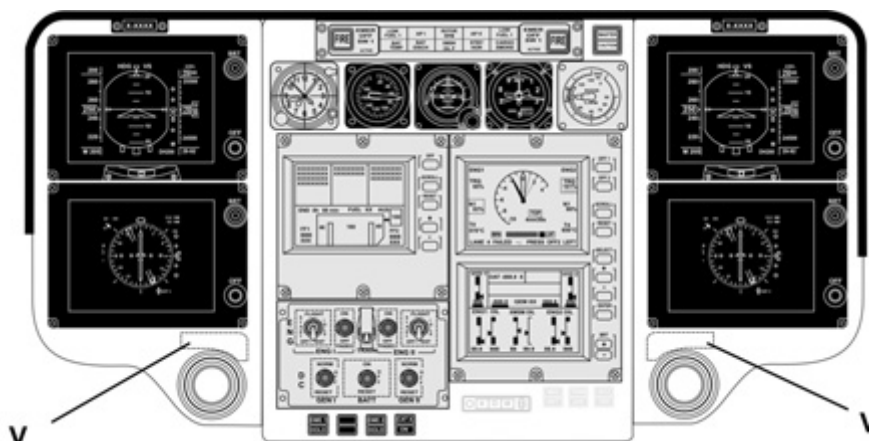
4.3.6 Further avionics add-ons see chapter 6 page 64

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

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

4.4 Dual Pilot or Single/Dual Pilot IFR Glass Cockpit, based on Avionics Solution 7, 8 or 11

4.4.1 Instrument panel overview



Avionics Solution 7

Avionics Solution 8

Avionics Solution 11

Additional space:

- F - e.g. for ADF control unit (CD-432B)
- M - Marker beacon lights for Avionics Solution 11
- S - e.g. or other optional equipment
- T - e.g. for autopilot (DAFCS) control unit or other optional equipment
- U - for GPS annunciation / switch unit
- V - for Video Radar Unit (brightness control for external video source e.g. moving map, FLIR, weather radar)

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

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

4.4.2 Contents of Avionics Solutions 7, 8 and 11

Document reference	Commercial reference	Title
	L2300-007-04	Avionics Solution 7, consisting of
<i>VHF AM</i>		
08-11023-A	L2313-091-03	VHF AM/ COM. system, copilot KTR 908 / KFS 598 A (HONEYWELL)
08-11023-A	L2313-092-03	VHF AM/COM system, pilot KTR 908 / KFS 598A (HONEYWELL)
<i>Intercom System</i>		
08-16053-A	L2341-191-01	Audio/Comm. control system (2nd station - copilot) AS 3100-12 (BECKER)
08-16053-A	L2341-192-01	Audio/Comm. control system (pilot) AS 3100-12 (BECKER) incl. Intercom Select Panel (ICS mode selector)
08-16053-A	L2341-293-01	Intercom amplifier IC 3100-4 (BECKER)
<i>Transponder</i>		
08-22027-A	L2325-092-06	Transponder (Mode S) MST 67A (HONEYWELL)
08-22027-A	L2325-092-15	Transponder control unit PS 578A (HONEYWELL)
<i>DME</i>		
08-25022-A	L3455-090-02	Distance measuring equipment DMS-44A (CHELTON/WULFSBERG)
<i>VOR/ILS/MKR receivers</i>		
08-26025-A	L3432-091-03	VOR/ILS/MKR Navigation system, copilot KNR 634 A / KFS 564 A (HONEYWELL)
08-26025-A	L3432-092-03	VOR/ILS/MKR Navigation system, pilot KNR 634 A / KFS 564 A (HONEYWELL)
<i>Radio switch</i>		
08-29003-A	L2480-090-01	Avionics/Radio master switches (Special ECD)
<i>Conventional instruments</i>		
08-51013-A	L3425-806-51	2" Stand-by horizon AI 804 DC incl. battery (GOODRICH)
<i>Display system</i>		
08-65003-A	L3161-090-09	MEGHAS - Flight Control Display System (FCDS) - Dual (4xSMD45)
<i>Miscellaneous</i>		
08-99000-A	L0000-150-07	Avionics Solution 7 interconnection / wiring

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

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

<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>
	L2300-008-04	Avionics Solution 8, consisting of
<i>VHF AM</i>		
08-11022-A	L2313-091-08	VHF AM/COM system, copilot VCS-40 A (CHELTON/WULFSBERG)
08-11022-A	L2313-091-13	Control unit CD 402 B, copilot (CHELTON/WULFSBERG)
08-11022-A	L2313-092-07	VHF AM/COM system, pilot VCS-40 A (CHELTON/WULFSBERG)
08-11022-A	L2313-092-13	Control unit CD 402 B, pilot (CHELTON/WULFSBERG)
<i>Intercom System</i>		
08-16053-A	L2341-191-01	Audio/Comm. control system (2nd station - copilot) AS 3100-12 (BECKER)
08-16053-A	L2341-192-01	Audio/Comm. control system (pilot) AS 3100-12 (BECKER) incl. Intercom Select Panel (ICS mode selector)
08-16053-A	L2341-293-01	Intercom amplifier IC 3100-4 (BECKER)
<i>Transponder</i>		
08-22027-A	L2325-092-06	Transponder (Mode S) MST 67A (HONEYWELL)
08-22027-A	L2325-092-15	Transponder control unit PS 578A (HONEYWELL)
<i>DME</i>		
08-25022-A	L3455-090-02	Distance measuring equipment DMS-44A (CHELTON/WULFSBERG)
<i>VOR/ILS/MKR receivers</i>		
08-26024-A	L3432-091-06	VOR/ILS/MKR Navigation system, copilot VNS-41 A (CHELTON/WULFSBERG)
08-26024-A	L3432-091-09	Control unit CD 412 B, copilot (CHELTON/WULFSBERG)
08-26024-A	L3432-092-07	VOR/ILS/MKR Navigation system, pilot VNS-41 A (CHELTON/WULFSBERG)
08-26024-A	L3432-092-12	Control unit CD 412 B, pilot (CHELTON/WULFSBERG)
<i>Radio switch</i>		
08-29003-A	L2480-090-01	Avionics/Radio master switches (Special ECD)
<i>Conventional instruments</i>		
08-51013-A	L3425-806-51	2" Stand-by horizon AI 804 DC incl. battery (GOODRICH)
<i>Display system</i>		
08-65003-A	L3161-090-09	MEGHAS - Flight Control Display System (FCDS) - Dual (4xSMD45)
<i>Miscellaneous</i>		
08-99000-A	L0000-150-08	Avionics Solution 8 interconnection / wiring

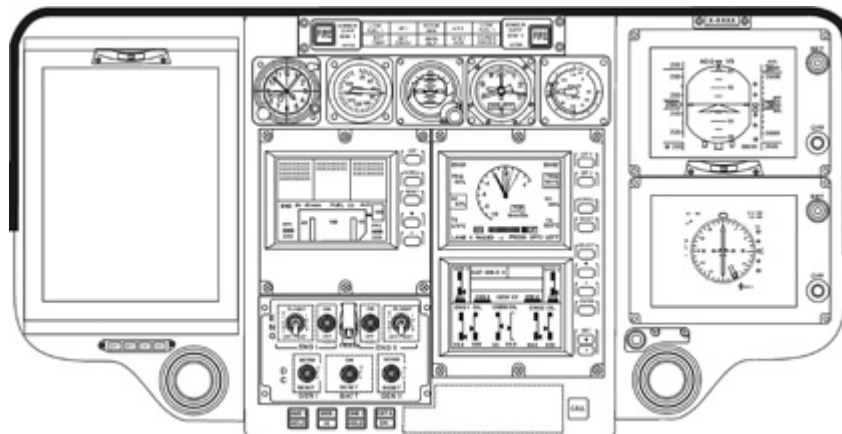
The data set forth in this document are general in nature and for information purposes only.

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

Document reference	Commercial reference	Title
	L2300-011-02	Avionics Solution 11, consisting of:
<i>Intercom System</i>		
08-16053-A	L2341-191-01	Audio/Comm. control system (2nd station - copilot) AS 3100-12 (BECKER)
08-16053-A	L2341-192-01	Audio/Comm. control system (pilot) AS 3100-12 (BECKER) incl. Intercom Select Panel (ICS mode selector)
08-16053-A	L2341-293-01	Intercom amplifier IC 3100-4 (BECKER)
<i>Transponder</i>		
08-22026-A	L2325-092-12	Transponder (Mode S) GTX330 (GARMIN)
<i>DME</i>		
08-25022-A	L3455-090-02	Distance measuring equipment DMS-44A (CHELTON/WULFSBERG)
<i>VOR/ILS/MKR receivers</i>		
08-26010-A	L3431-092-02	Marker beacon receiver/lights KR 21 (HONEYWELL)
<i>Radio switch</i>		
08-29003-A	L2480-090-01	Avionics/Radio master switches (Special ECD)
<i>GPS/NAV/COM</i>		
08-43018-B	L3442-091-07	GPS / NAV / COM GNS 430, copilot (GARMIN) interfaced with FCDS (GPS stand-alone)
08-43018-B	L3442-092-07	GPS / NAV / COM GNS 430, pilot (GARMIN) interfaced with FCDS
<i>Conventional instruments</i>		
08-51013-A	L3425-806-51	2" Stand-by horizon AI 804 DC incl. battery (GOODRICH)
<i>Display system</i>		
08-65003-A	L3161-090-09	MEGHAS - Flight Control Display System (FCDS) - Dual (4xSMD45)
<i>Miscellaneous</i>		
08-99000-A	L0000-150-11	Avionics Solution 11 interconnection / wiring

ON REQUEST:

- NVG friendly version of Avionics Solutions 7, 8 and 11
- Exchange of 2x SMD45 on copilot side to one SMD68



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

4.4.3 Minimum required equipment

Minimum required equipment for Avionics Solution 7, 8 and 11						PINAO					
Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)		21100	21110	21111	31100	31110	31111	
			kg	lb							
05-03007-A	L2562-001-00	First aid kit	1.3	2.9			X			X	
05-22008-A	L2621-001-00	Engine fire extinguishing system	3.6	7.9	X	X		X		X	
05-33001-A	L3113-001-00	Slant panel	0.8	1.8	X	X	X	X	X	X	
05-33002-A	L3113-004-00	Center console	2.3	5.1	X	X	X	X	X	X	
05-34002-A	L2576-001-00	Avionics compartment	4.2	9.3	X	X	X	X	X	X	
05-37016-A	L6701-001-00	Copilot flight controls	6.0	13.2	X	X	X	X	X	X	
05-38010-A	L3111-001-04	7" copilot instrument panel with glare shield	2.7	6.0	X	X	X	X	X	X	
05-39006-A	L2514-003-01	Map case in copilot door	0.5	1.1	X	X	X	X	X	X	
05-39007-A	L3111-001-10	Map case on instrument panel glare shield	0.6	1.3	X	X	X	X	X	X	
05-39008-A	L3113-004-10	Illuminated chart holder for pilot side	0.9	2.0			X			X	
05-41004-B	L2104-100-00	Bleed air heating system ¹⁰	6.6	14.6	X	X	X	X	X	X	
05-61010-A	L2433-006-00	Battery, type "Saft", ULM, 40 Ah, 24 V instead of standard battery	16.8	37.0	X	X	X	X	X	X	
05-62010-B	L2420-005-00	AC System (50VA) ¹¹	1.9	4.2	X	X	X	X	X	X	
05-63003-A	L2432-001-00	Starter/generators (2 x 200 A, 28 VDC), instead of standard one	3.6	7.9	X	X	X	X	X	X	
06-12008-B	L3217-001-00	Reinforced rear landing gear cross tube (standard landing gear only)	1.1	2.4	X	X	X	X	X	X	
06-45023-A	L3343-003-00	Landing & search light, 450 W	3.4	7.5	X	X	X	X	X	X	
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. opt. (GPS is required)	3.8	8.4			X			X	
08-00004-A	L2300-007-04	Avionics Solution 7	80.6	177.7							
08-00005-A	L2300-008-04	or Avionics Solution 8	84.2	185.6	X	X	X	X	X	X	
08-00022-A	L2300-011-02	or Avionics Solution 11	77.8	171.5							
08-21014-A	L3441-090-04	Radar Altimeter KRA 405B (HONEYWELL)	4.8	10.6		X	X	X	X	X	
08-53002-B	L2212-400-00	MEGHAS sensor kit	17.8	39.3	X	X	X	X	X	X	
08-54001-A	L3411-001-00	Copilot pitot static system	1.4	3.1	X	X	X	X	X	X	
08-71002-B	L2217-001-50	IFR pitch/roll SAS	12.2	26.9	X	X	X				
08-72001-B	L2212-001-00	Digital Automatic Flight Contr. Syst. - DAFCS	27.0	59.6				X	X	X	

¹⁰ For helicopters dedicated for EMS select "Bleed air heating system: EMS version L2104-003-00" (05-41004-A) (7.0 kg / 15.4 lb.).

¹¹ Alternatively the AC system L2420-002-00 (05-62010-B) (350VA; 3.2kg) can be selected

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4.4.4 Possible add-ons

Possible add-ons for Avionics Solution 7, 8 and 11						PINAO					
Document reference	Commercial reference	Title	Weight (margin \pm 3 %)		2110	2110	2111	3110	3110	3111	
			kg	lb							
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. opt. (GPS receiver required)	3.8	8.4	X	X		X	X		
08-21014-A	L3441-090-04	Radar altimeter KRA 405B (HONEYWELL)	4.8	10.6	X						
08-24015-A	L3452-092-17 L3452-092-08	ADF system DFS-43A CHELTON/WULFSBERG ADF control unit CD-432B CHELTON/WULFSB.	9.6 1.2	21.2 2.6	X	X	X	X	X	X	
08-31019-A	L3443-090-02	Color weather radar RDR2000 (HONEYWELL) (VRU required) → see below	6.6	14.6	X	X	X	X	X	X	
	L2571-001-00	Radar radome (for RDR2000)	3.9	8.6							
08-31034-A	L3443-004-00	Search and rescue weather radar RDR1600 (TELEPHONICS) (VRU required) → see below	16.8	37.0	X	X	X	X	X	X	
	L2571-002-00	Radar radome (for RDR1600)	6.6	14.6							
08-43017-A	L3442-092-12	GPS Nav. system 2101 I/O Approach Plus (FREE FLIGHT) (only possible for Avionics Solutions 7 and 8)	6.0	13.2	X	X	X	X	X	X	
08-46007-A	L3168-090-17	Digital moving Map DKG 4 (DORNIER) basic version without options (VRU and GPS receiver required) (Enhanced options and maps on request) ¹² ,	3.0	6.6	X	X	X	X	X	X	
08-46020-B	L3168-092-04	Digital moving Map EURONAV IV - RN6 (EURO AVIONICS), basic version without options (VRU and GPS receiver required) (Enhanced options and maps on request) ¹²	8.0	17.6	X	X	X	X	X	X	
08-65004-A	L3443-010-00	Video Radar Unit (VRU) for weather radar or digital moving map indication on FCDS (SMD45/SMD68)	5.6	12.3	X	X	X	X	X	X	
08-72001-B	L2212-001-00	Digital Automatic Flight Control System - DAFCS (Radar altimeter required)	31.0	68.3	instead of IFR pitch/roll SAS						
08-81018-A	L2321-007-00	M'ARMS [®] Cockpit Voice and Flight Data Recorder (CVFDR), ground station not included (in combination with UMS: 18.3 kg / 40.3 lb)	17.3	38.1	DAFCS required		X	X	X		
08-83007-A	L3171-001-00	M'ARMS [®] Usage Monitoring System (UMS), ground station not included	7.2	15.9	DAFCS required		X	X	X		

4.4.5 Further avionics add-ons see chapter 6 page 64

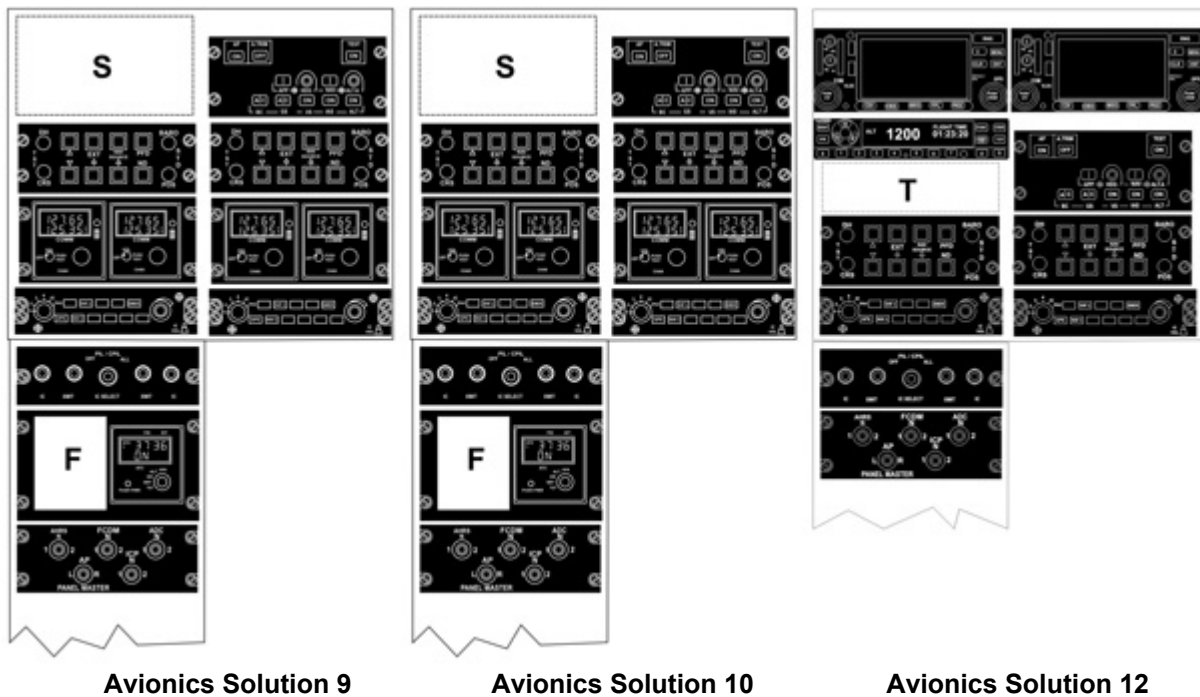
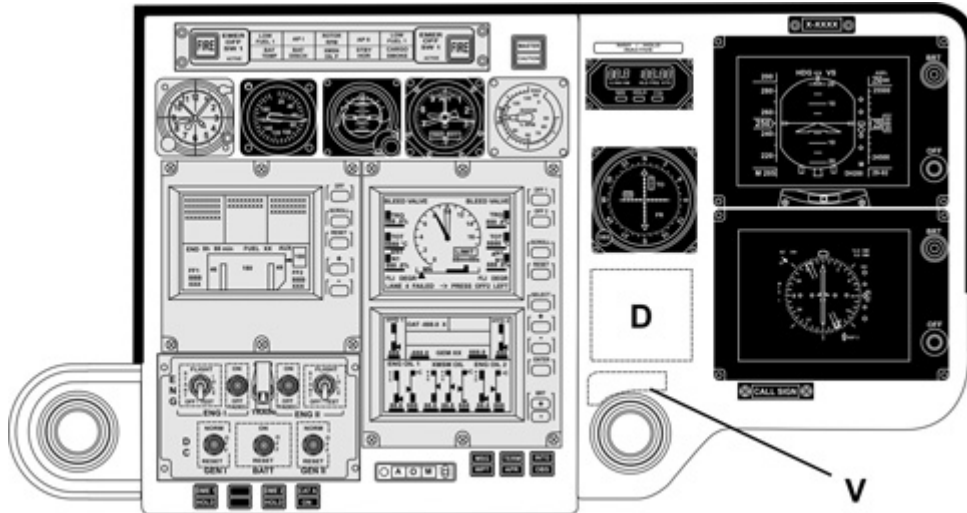
¹² Tactical mission equipment can not be certified by German Civil Aviation Authorities. Eurocopter will ensure that the equipment is compatible with the basic helicopter and will assist the customer in obtaining certification or acceptance approval in his country.

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

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4.5 Single Pilot IFR Glass Cockpit, based on Avionics Solution 9, 10 or 12

4.5.1 Instrument panel overview



Additional space:

- D - e.g. for radar altimeter indicator, stormscope
- F - e.g. for ADF control unit (CD-432B)
- M - Marker beacon lights for Avionics Solution 12
- S / T - e.g. for GPS or other optional equipment
- U - for GPS annunciation / switch unit
- V - for Video Radar Unit (brightness control for external video source e.g. moving map, FLIR, weather radar)

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

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

4.5.2 Contents of Avionics Solution 9, 10 and 12

<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>
	L2300-009-04	Avionics Solution 9, consisting of:
<i>Radio Com</i>		
08-11023-A	L2313-091-03	VHF AM/ COM. system, copilot KTR 908 / KFS 598 A (HONEYWELL)
08-11023-A	L2313-092-03	VHF AM/COM system, pilot KTR 908 / KFS 598A (HONEYWELL)
<i>Intercom System</i>		
08-16053-A	L2341-191-01	Audio/Comm. control system (2nd station - copilot) AS 3100-12 (BECKER)
08-16053-A	L2341-192-01	Audio/Comm. control system (pilot) AS 3100-12 (BECKER) incl. Intercom Select Panel (ICS mode selector)
08-16053-A	L2341-293-01	Intercom amplifier IC 3100-4 (BECKER)
<i>Transponder</i>		
08-22027-A	L2325-092-06	Transponder (Mode S) MST 67A (HONEYWELL)
08-22027-A	L2325-092-15	Transponder control unit PS 578A (HONEYWELL)
<i>DME</i>		
08-25022-A	L3455-090-02	Distance measuring equipment DMS-44A (CHELTON/WULFSBERG)
<i>VOR/ILS/MKR receivers</i>		
08-26025-A	L3432-091-03	VOR/ILS/MKR Navigation system, copilot KNR 634 A / KFS 564 A (HONEYWELL)
08-26025-A	L3432-092-03	VOR/ILS/MKR Navigation system, pilot KNR 634 A / KFS 564 A (HONEYWELL)
<i>Radio switch</i>		
08-29003-A	L2480-090-01	Avionics/Radio master switches (Special ECD)
<i>Conventional instruments</i>		
08-51013-A	L3425-806-51	2" Stand-by horizon AI 804 DC incl. battery (GOODRICH)
<i>Display system</i>		
08-61011-A	L0000-200-12	Back-up indicator CDI KI 204 (HONEYWELL), Back-up indicator SD 442 B (CHELTON / WULFSBERG)
08-65003-A	L3161-092-03	MEGHAS - Flight Control Display System (FCDS) - Single (2xSMD45)
<i>Miscellaneous</i>		
08-99000-A	L0000-150-09	Avionics Solution 9 interconnection / wiring

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

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

<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>
	L2300-010-04	Avionics Solution 10, consisting of:
<i>Radio Com</i>		
08-11022-A	L2313-091-08	VHF AM/COM system, copilot VCS-40 A (CHELTON/WULFSBERG)
08-11022-A	L2313-091-13	Control unit CD 402 B, copilot (CHELTON/WULFSBERG)
08-11022-A	L2313-092-07	VHF AM/COM system, pilot VCS-40 A (CHELTON/WULFSBERG)
08-11022-A	L2313-092-13	Control unit CD 402 B, pilot (CHELTON/WULFSBERG)
<i>Intercom System</i>		
08-16053-A	L2341-191-01	Audio/Comm. control system (2nd station - copilot) AS 3100-12 (BECKER)
08-16053-A	L2341-192-01	Audio/Comm. control system (pilot) AS 3100-12 (BECKER) incl. Intercom Select Panel (ICS mode selector)
08-16053-A	L2341-293-01	Intercom amplifier IC 3100-4 (BECKER)
<i>Transponder</i>		
08-22027-A	L2325-092-06	Transponder (Mode S) MST 67A (HONEYWELL)
08-22027-A	L2325-092-15	Transponder control unit PS 578A (HONEYWELL)
<i>DME</i>		
08-25022-A	L3455-090-02	Distance measuring equipment DMS-44A (CHELTON/WULFSBERG)
<i>VOR/ILS/MKR receivers</i>		
08-26024-A	L3432-091-06	VOR/ILS/MKR Navigation system, copilot VNS-41 A (CHELTON/WULFSBERG)
08-26024-A	L3432-091-09	Control unit CD 412 B, copilot (CHELTON/WULFSBERG)
08-26024-A	L3432-092-07	VOR/ILS/MKR Navigation system, pilot VNS-41 A (CHELTON/WULFSBERG)
08-26024-A	L3432-092-12	Control unit CD 412 B, pilot (CHELTON/WULFSBERG)
<i>Radio switch</i>		
08-29003-A	L2480-090-01	Avionics/Radio master switches (Special ECD)
<i>Conventional instruments</i>		
08-51013-A	L3425-806-51	2" Stand-by horizon AI 804 DC incl. battery (GOODRICH)
<i>Display system</i>		
08-61011-A	L0000-200-12	Back-up indicator CDI KI 204 (HONEYWELL), Back-up indicator SD 442 B (CHELTON / WULFSBERG)
08-65003-A	L3161-092-03	MEGHAS - Flight Control Display System (FCDS) - Single (2xSMD45)
<i>Miscellaneous</i>		
08-99000-A	L0000-150-10	Avionics Solution 10 interconnection / wiring

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

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

<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>
	L2300-012-02	Avionics Solution 12, consisting of:
<i>Intercom System</i>		
08-16053-A	L2341-191-01	Audio/Comm. control system (2nd station - copilot) AS 3100-12 (BECKER)
08-16053-A	L2341-192-01	Audio/Comm. control system (pilot) AS 3100-12 (BECKER) incl. Intercom Select Panel (ICS mode selector)
08-16053-A	L2341-293-01	Intercom amplifier IC 3100-4 (BECKER)
<i>Transponder</i>		
08-22026-A	L2325-092-12	Transponder (Mode S) GTX330 (GARMIN)
<i>DME</i>		
08-25022-A	L3455-090-02	Distance measuring equipment DMS-44A (CHELTON/WULFSBERG)
<i>VOR/ILS/MKR receivers</i>		
08-26010-A	L3431-092-02	Marker beacon receiver/lights KR 21(HONEYWELL)
<i>Radio switch</i>		
08-29003-A	L2480-090-01	Avionics/Radio master switches (Special ECD)
<i>GPS/NAV/COM</i>		
08-43018-B	L3442-091-07	GPS / NAV / COM GNS 430, copilot (GARMIN) interfaced with FCDS (GPS stand-alone)
08-43018-B	L3442-092-07	GPS / NAV / COM GNS 430, pilot (GARMIN) interfaced with FCDS
<i>Conventional instruments</i>		
08-51013-A	L3425-806-51	2" Stand-by horizon AI 804 DC incl. battery (GOODRICH)
<i>Display system</i>		
08-61011-A	L0000-200-12	Back-up indicator CDI KI 204 (HONEYWELL), Back-up indicator SD 442 B (CHELTON / WULFSBERG)
08-65003-A	L3161-092-03	MEGHAS - Flight Control Display System (FCDS) - Single (2xSMD45)
<i>Miscellaneous</i>		
08-99000-A	L0000-150-12	Avionics Solution 12 interconnection / wiring

ON REQUEST:

- NVG friendly version of Avionics Solutions 9, 10 and 12

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

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

4.5.3 Minimum required equipment

Minimum required equipment for Avionics Solution 9, 10 and 12						PINA0		
Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)		11100	11110	11111	
			kg	lb				
05-03007-A	L2562-001-00	First aid kit	1.3	2.9			X	
05-22008-A	L2621-001-00	Engine fire extinguishing system	3.6	7.9		X	X	
05-33001-A	L3113-001-00	Slant panel	0.8	1.8	X	X	X	
05-33002-A	L3113-004-00	Center console	2.3	5.1	X	X	X	
05-34002-A	L2576-001-00	Avionics compartment	4.2	9.3	X	X	X	
05-39007-A	L3111-001-10	Map case on instrument panel glare shield	0.6	1.3	X	X	X	
05-39008-A	L3113-004-10	Illuminated chart holder for pilot side	0.9	2.0			X	
05-41004-B	L2104-100-00	Bleed air heating system ¹³	6.6	14.6	X	X	X	
05-44002-A	L2122-001-00	Ventilation extruder w/o copilot I-panel extension	0.3	0.7	X	X	X	
05-61010-A	L2433-006-00	Battery, type "Saft", ULM, 40 Ah, 24 V instead of standard battery	16.8	37.0	X	X	X	
05-62010-B	L2420-005-00	AC System (50VA) ¹⁴	1.9	4.2	X	X	X	
05-63003-A	L2432-001-00	Starter/generators (2 x 200 A, 28 VDC), instead of standard generators	3.6	7.9	X	X	X	
06-12008-B	L3217-001-00	Reinforced rear landing gear cross tube (standard landing gear only)	1.1	2.4	X	X	X	
06-45023-A	L3343-003-00	Landing & search light, 450 W	3.4	7.5	X	X	X	
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. Opt (GPS receiver required)	3.8	8.4			X	
08-00006-A	L2300-009-04	Avionics Solution 9	78.0	172.0				
08-00007-A	L2300-010-04	or Avionics Solution 10	81.6	180.0	X	X	X	
08-00023-A	L2300-012-02	or Avionics Solution 12	75.2	165.8				
08-21014-A	L3441-090-04	Radar altimeter KRA 405B (HONEYWELL)	4.8	10.6	X	X	X	
08-53002-B	L2212-400-00	MEGHAS sensor kit	17.8	39.3	X	X	X	
08-54001-A	L3411-001-00	Copilot pitot static system	1.4	3.1	X	X	X	
08-72001-B	L2212-001-00	Digital Automatic Flight Control System - DAFCS	27.0	59.6	X	X	X	

¹³ For helicopters dedicated for EMS select "Bleed air heating system: EMS version L2104-003-00" (05-41004-A) (7.0 kg / 15.4 lb.)

¹⁴ Alternatively the AC system L2420-002-00 (05-62010-B) (350VA; 3.2kg) can be selected

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4.5.4 Possible add-ons

Possible add-ons for Avionics Solutions 9, 10 and 12					PINA0		
Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)		11110	11110	11111
			kg	lb			
06-67044-A	L2563-801-06	ELT C406-N HM (ARTEX) incl. NAV. opt. (GPS receiver required)	3.8	8.4	X	X	
08-24015-A	L3452-092-17 L3452-092-08	ADF system DFS-43A (CHELTON/WULFSBERG) ADF control unit CD-432B (CHELTON/WULFSB.)	9.6 1.2	21.2 2.6	X	X	X
08-31019-A	L3443-090-02 L2571-001-00	Color weather radar RDR2000 (HONEYWELL) (VRU required) → see below Radar radome (for RDR2000)	6.6 3.9	14.6 8.6	X	X	X
08-31034-A	L3443-004-00 L2571-002-00	Search and rescue weather radar RDR1600 (TELEPHONICS) (VRU required) → see below Radar radome (for RDR1600)	16.8 6.6	37.0 14.6	X	X	X
08-43017-A	L3442-092-12	GPS Nav. system 2101 I/O Approach Plus (FREE FLIGHT, only possible for Avionics Solutions 9, 10)	6.0	13.2	X	X	X
08-46007-A	L3168-090-17	Digital moving Map DKG 4 (DORNIER) basic version without options (VRU and GPS receiver required) (Enhanced options and maps on request) ¹⁵	3.0	6.6		X	X
08-46020-B	L3168-092-04	Digital moving Map EURONAV IV - RN6 (EURO AVIONICS) basic version without options (VRU and GPS receiver required) (Enhanced options and maps on request) ¹⁵	8.0	17.6		X	X
08-65004-A	L3443-010-00	Video Radar Unit (VRU) for weather radar or digital moving map indication on FCDS (SMD45/SMD68)	5.6	12.3	X	X	X
08-81018-A	L2321-007-00	M'ARMS [®] Cockpit Voice and Flight Data Recorder (CVFDR), ground station not included (in combination with UMS: 18.3 kg / 40.3 lb)	17.3	38.1		X	X
08-83007-A	L3171-001-00	M'ARMS M'ARMS [®] Usage Monitoring System (UMS), ground station not included	7.2	15.9	X	X	X

4.5.5 Further avionics add-ons see chapter 6 page 64

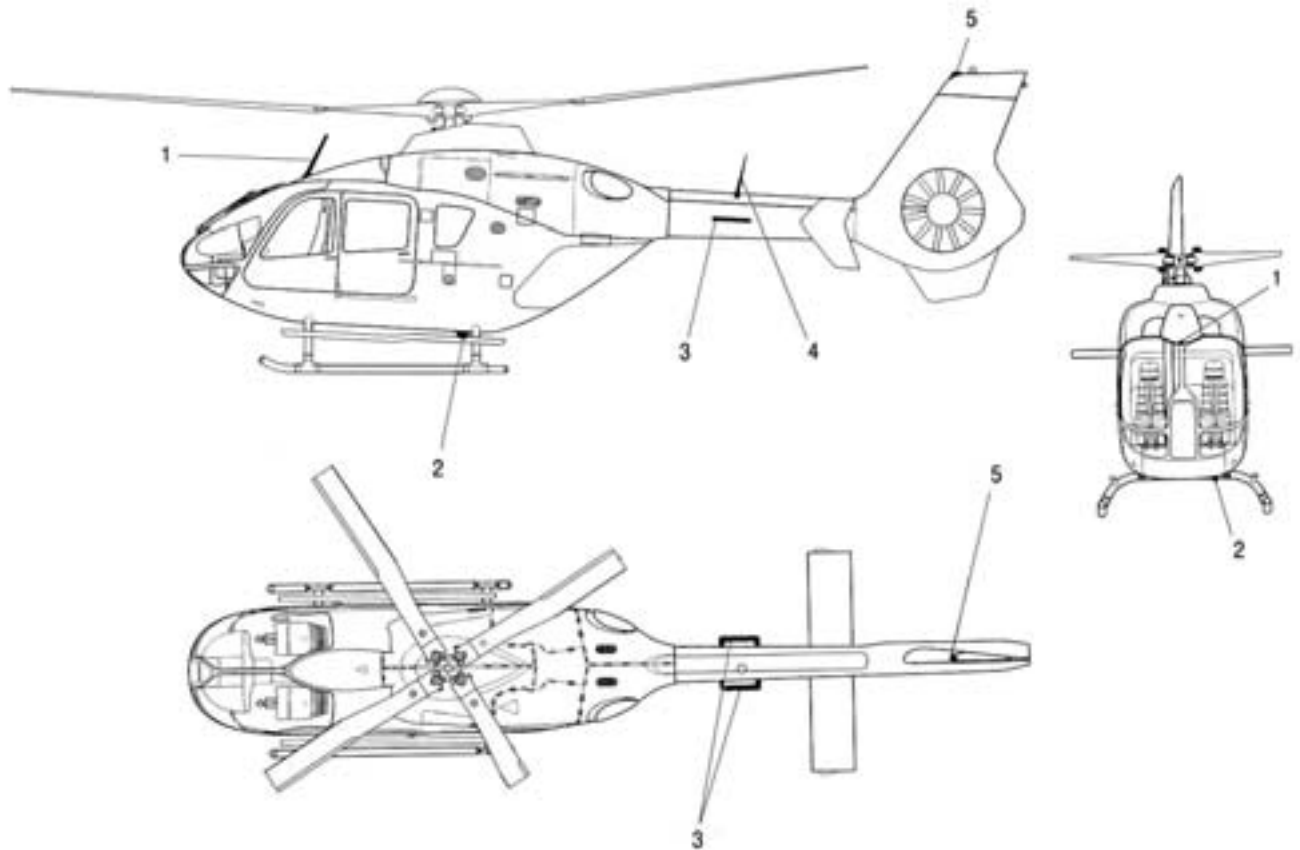
¹⁵ Tactical mission equipment can not be certified by German Civil Aviation Authorities. Eurocopter will ensure that the equipment is compatible with the basic helicopter and will assist the customer in obtaining certification or acceptance approval in his country.

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4.6 Antenna layouts

4.6.1 Typical VFR antenna layout

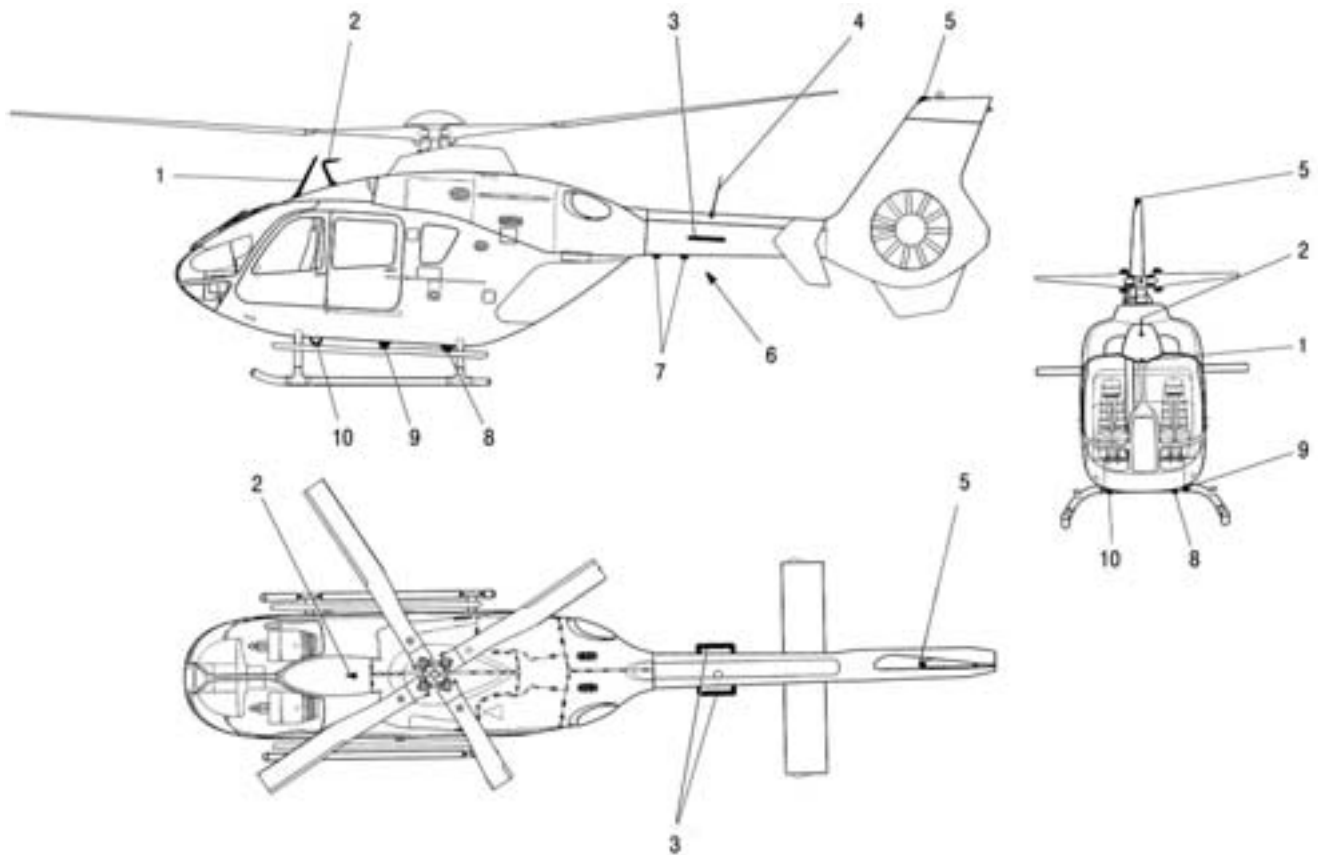


- 1 – ELT antenna
- 2 – ATC antenna
- 3 – VOR antennas
- 4 – VHF 1 antenna
- 5 – GPS antenna

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4.6.2 Typical IFR antenna layout



- | | |
|------------------|---------------------------------|
| 1 – ELT antenna | (6 – ADF antenna (if required)) |
| 2 – VHF2 antenna | 7 – Radar altimeter antenna |
| 3 – VOR antennas | 8 – ATC antenna |
| 4 – VHF1 antenna | 9 – Marker antenna |
| 5 – GPS antenna | 10 – DME antenna |

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5 Cabin arrangement

5.1 Passenger transport

5.1.1 Six (6) Passenger transport (Recommended configuration)

This installation is characterized by:

Weight
(margin $\pm 3\%$)

Document reference	Commercial reference	Title	kg	lb
07-27001-A	L2522-001-00	Three (3) forward passenger seats, facing backwards	37.4	82.5

In combination with either

07-27004-A	L2522-004-10	Utility seats for 3 rear passengers, model Eurocopter, fixed provisions	1.2	2.6
07-27004-A	L2522-004-20	Utility seats for 3 rear passengers, model Eurocopter, detachable parts	33.2	73.2
or				
07-27005-A	L2522-008-00	Utility seats for 3 rear passengers, model aerolite	37.0	81.6



3 forward passenger seats



Model Eurocopter



model Aerolite

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5.1.2 Five (5) Passenger transport (Recommended configuration)

This installation is characterized by:

Document reference	Commercial reference	Title	Weight (margin \pm 3 %)	
			kg	lb
07-27001-A	L2522-001-00	Three (3) forward passenger seats, facing backwards	37.4	81.6
07-27001-A	L2522-002-00	Two (2) rear passenger seats, facing forwards	22.2	49.0
07-50036-A	L2514-012-00	Covers for sliding door fairing LH/RH	0.1	0.2
07-60014-A	L2514-013-00	Map case in sliding doors LH/RH	1.4	3.1
07-60015-A	L2514-014-00	Variable tie-down web for luggage securing	4.2	9.3
07-90006-A	L2514-011-00	Retractable coat hooks (2ea) in rear cabin (if avionics compartment is installed, only)	0.1	0.2



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

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Typical layout

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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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5.1.3 Corporate / VIP passenger transport

5.1.3.1 Five (5) corporate passenger transport (Recommended configuration)

This installation is characterized by:

Weight
(margin $\pm 3\%$)

Document reference	Commercial reference	Title	kg	lb
07-81015-A	L2525-101-11	VIP-pilot seat (instead of std. pilot seat)	1.1	2.4
07-81015-A	L2525-101-21	VIP-copilot seat (instead of std. copilot seat)	1.1	2.4
07-81013-A	L2525-102-00	4 VIP passenger seats (2 front and 2 rear)	56.1	123.7
07-81013-A	L2525-202-20	1 VIP passenger seat (front, middle)	14.2	31.3
07-85003-A	L2526-112-710	Rear cabinet with armrest	10.0	22.2
07-83003-A	L2525-104-00	VIP carpet for cockpit, cabin and cargo compartment	16.6	36.6
07-82010-A	L2525-102-62	Armrest in rear window niche LH / RH	0.8	1.8
07-86001-A	L2525-100-35	Special painted interior	0.1	0.2
07-90006-A	L2514-011-00	Retractable coat hooks (2ea) in rear cabin (if avionics compartment is installed, only)	0.1	0.2
07-50036-A	L2514-012-00	Covers for sliding door fairing LH/RH	0.1	0.2
07-60014-A	L2514-013-00	Map case in sliding doors LH/RH	1.4	3.1
07-60015-A	L2514-014-00	Variable tie-down web for luggage securing	4.2	9.3



Typical layout

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5.1.3.2 Four (4) VIP passenger transport (Recommended configuration)

This installation is characterized by:

Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)	
			kg	lb
07-81015-A	L2525-101-11	VIP-pilot seat (instead of std. pilot seat)	1.1	2.4
07-81015-A	L2525-101-21	VIP-copilot seat (instead of std. copilot seat)	1.1	2.4
07-81013-A	L2525-102-00	4 VIP passenger seats (2 front and 2 rear)	56.1	123.7
07-85002-A	L2526-212-601	Front cabinet, flat	14.5	32.0
07-85003-A	L2526-112-710	Rear cabinet with armrest	10.0	22.2
07-83003-A	L2525-104-00	VIP carpet for cockpit, cabin and cargo compartment	16.6	36.6
07-82010-A	L2525-102-62	Armrest in rear window niche LH / RH	0.8	1.8
07-86002-A	L2525-112-35	Leather covered interior	13.4	29.5
07-90006-A	L2514-011-00	Retractable coat hooks (2ea) in rear cabin (if avionics compartment is installed, only)	0.1	0.2
07-50036-A	L2514-012-00	Covers for sliding door fairing LH/RH	0.1	0.2
07-60014-A	L2514-013-00	Map case in sliding doors LH/RH	1.4	3.1
07-60015-A	L2514-014-00	Variable tie-down web for luggage securing	3.8	8.4



Typical layout

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5.1.3.3 Customer specific Corporate / VIP solutions

Customer specific solutions can be defined by using the following table.

- Note: Only one item per line can be selected.

COCKPIT	VIP pilot seat 07-81015-A L2525-101-11 (1.1 kg / 2.4 lb.)	VIP pilot seat height adjustable 07-81015-A L2525-101-71 (4.8 kg / 10.6 lb.)	
	VIP copilot seat 07-81015-A L2525-101-21 (1.1 kg / 2.4 lb.)	VIP copilot seat height adjustable 07-81015-A L2525-101-76 (4.8 kg / 10.6 lb.)	
PASSENGER CABIN	4 VIP passenger seats 07-81013-A L2525-102-00 (56.1 kg / 123.7 lb.)		
	1 VIP passenger seat (front, middle) 07-81013-A L2525-202-20 (14.2 kg / 31.3 lb.)	Front cabinet, flat 07-85002-A L2526-212-601 (14.5 kg / 32.0 lb.)	Front cabinet, middle 07-85002-A L2526-112-63 (22.5 kg / 49.6 lb.) requires 2nd portable fire extinguisher 06-65004-A L2625-003-00 (2.8 kg / 6.2 lb.)
		Table for front cabinet 07-85002-A L2526-112-61 (3.0 kg / 6.6 lb.)	
		Cooling box for front cabinet 07-85002-A L2526-112-62 (2.5 kg / 5.5 lb.)	
	Rear cabinet with Armrest 07-85003-A L2526-112-710 (10.0 kg / 22.2 lb.)	Rear cabinet, flat 07-85004-A L2526-312-701 (8.6 kg / 19.0 lb.)	Rear cabinet, high 07-85004-A L2526-112-75 (14.0 kg / 30.9 lb.)
	Armrests in rear window niche, LH/RH 07-82010-A L2525-102-62 (0.8 kg / 1.8 lb.)		

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GENERAL	Special painted interior 07-86001-A L2525-100-35 (0.1 kg / 0.2 lb.)	Leather covered interior 07-86002-A L2525-112-35 (13.0 kg / 28.7 lb.)
	VIP carpet for cockpit, cabin and cargo compartment 07-83003-A L2525-104-00 (16.6 kg / 36.6 lb.)	
	Retractable coat hooks (2ea) in rear cabin (if avionics compartment is installed, only) 07-90006-A L2514-011-00 (0.1 kg / 0.2 lb.)	
	Map case in sliding doors LH/RH 07-60014-A L2514-013-00 (1.4 kg / 3.0 lb.)	
	Variable tie-down web for luggage securing 07-60015-A L2514-014-00 (4.2 kg / 9.3 lb.)	
	Covers for sliding door fairing LH/RH 07-50036-A L2514-012-00 (0.1 kg / 0.2 lb.)	
	Control covers painted in harmony with carpet (if copilot flight controls are selected, only) 07-90008-A L2525-101-65 (-2.3 kg / -5.1 lb.)	
GROUND SUPPORT EQUIPMENT	Fabric protection cover for 1 VIP pilot seat 07-90007-A L2525-111-50 (GSE)	
	Fabric protection cover for 1 VIP pax seat 07-90007-A L2525-112-91 (GSE)	
	Plastic protection cover for cockpit carpet 07-90007-A L2525-111-60 (GSE)	
	Plastic protection cover for cabin carpet 07-90007-A L2525-112-92 (GSE)	
HIGHLY RECOMMENDED ITEMS	Air conditioning system 05-42019-A L2105-001-00 (58.7 kg / 129.4 lb.)	Air conditioning system for tropical environment + Special ducting for front pax. seats 05-42020-A L2105-001-10 + L2525-112-46 (63.0 kg / 138.6 lb.)
	Enhanced sound proofing kit 07-30012-A L2581-001-00 (6.0 kg / 13.2 lb.)	
	Pax / cargo compartment separation wall (requires Avionics compartment) 07-30012-A L2524-001-00 (3.9 kg / 8.6 lb.) + 05-34002-A L2576-001-00 (4.2 kg / 9.3 lb.)	

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5.2 EMS equipment

5.2.1 Single stretchers

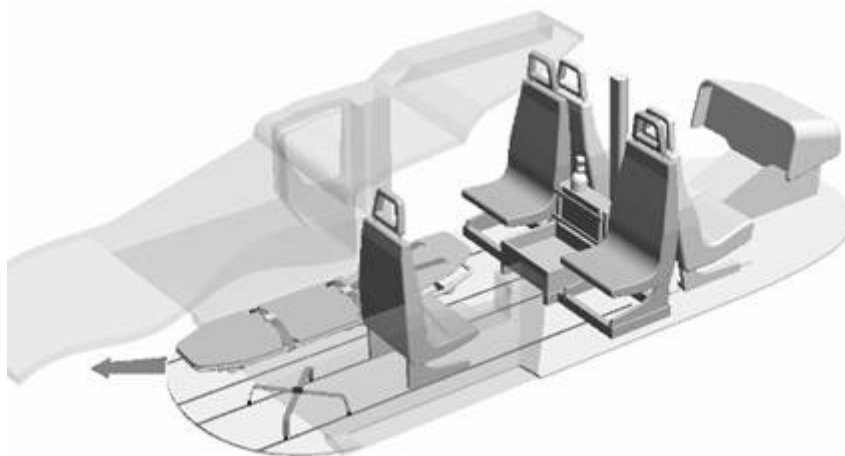
<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>	<i>Weight</i> <i>(margin ± 3 %)</i>	
			<i>kg</i>	<i>lb</i>
07-74011-A	L8522-320-00	Folding stretcher (16 G) - Bucher-Leichtbau (STC)	12.0	26.5
07-74011-A	L8522-350-00	Installation device for one stretcher (16 G) in full length only - Bucher-Leichtbau (STC)	4.5	9.9
07-74032-A	AL2013-009-10	Stretcher LH - Cirrus 1000 (three-piece), fixed provisions – Aerolite (STC)	0.5	1.1
07-74032-A	AL2013-009-20	Stretcher LH - Cirrus 1000 (three-piece), detachable parts – Aerolite (STC)	14.5	32.0

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

5.2.2 Packages from Aerolite

5.2.2.1 "Quick change EMS kit" – Aerolite (STC)



5.2.2.1.1 Content:

Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)	
			kg	lb
07-70028-A	AL2035-001	Quick change EMS kit – Aerolite (STC) consisting of:	33.5	73.9
		1 Life support module oxygen		
		1 Stretcher LH - Cirrus 2000 (foldable), detachable parts		
		1 Stretcher LH - Cirrus 2000 (foldable), fixed provisions		
		1 Tie down web		

5.2.2.1.2 Minimum required equipment:

Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)	
			kg	lb
07-27001-A	L2522-001-00	Three (3) forward passenger seats, facing backwards	37.4	82.5
		Middle seat (11 kg / 24.3 lb.) has to be removed.		

5.2.2.1.3 Recommended optional equipment for EMS packages see chapter 5.2.4 page 63

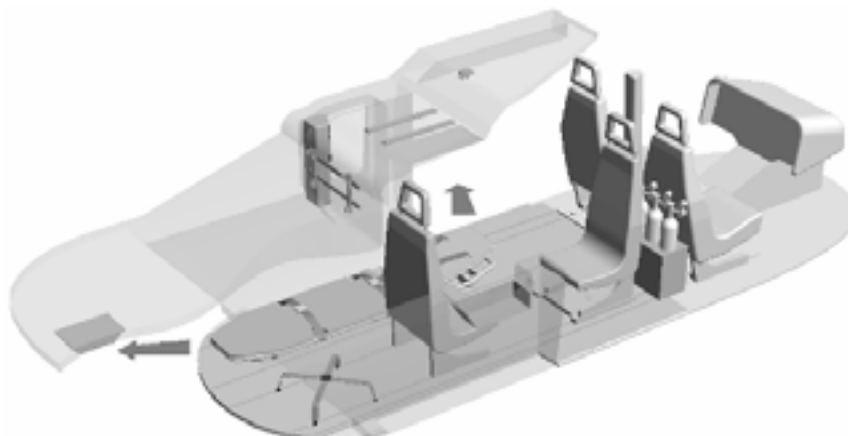
5.2.2.1.4 Optional equipment:

Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)	
			kg	lb
07-27008-A	L2522-160-00	One (1) rear RH passenger seat in FWD	11.1	24.4
	OR			
07-27001-A	L2522-002-00	Two (2) rear passenger seats, facing forwards	22.2	49.0

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5.2.2.2 “Rescue EMS kit” – Aerolite (STC)



5.2.2.2.1 Content:

Document reference	Commercial reference	Title	Weight (margin \pm 3 %)	
			kg	lb
07-70029-A	AL2035-002	Rescue EMS Kit – Aerolite (STC) consisting of:	100.0	220.5
		1 Ceiling rails LH		
		1 DC power and lighting System		
		1 Integral floor, detachable parts		
		1 Integral Floor, fixed provisions		
		1 Life support panel LH		
		1 Med oxygen system 3x3 Lt., detachable parts		
		1 Med oxygen system 3x3 Lt., fixed provisions		
		1 Med rack rear LH, detachable parts		
		1 Med rack rear LH - fixed provisions		
		1 Med suction system, detachable parts		
		1 Med suction system, fixed provisions		
		1 Pax seat cover - fixed provisions		
		1 Pax seat cover, detachable parts		
		1 Stationary seat FWD RH, detachable parts		
		1 Stationary seat FWD RH, fixed provisions		
		1 Stretcher LH - Cirrus 2000, detachable parts		
		1 Stretcher LH - Cirrus 2000, fixed provisions		
		1 Tie down web		

5.2.2.2.2 Minimum required equipment:

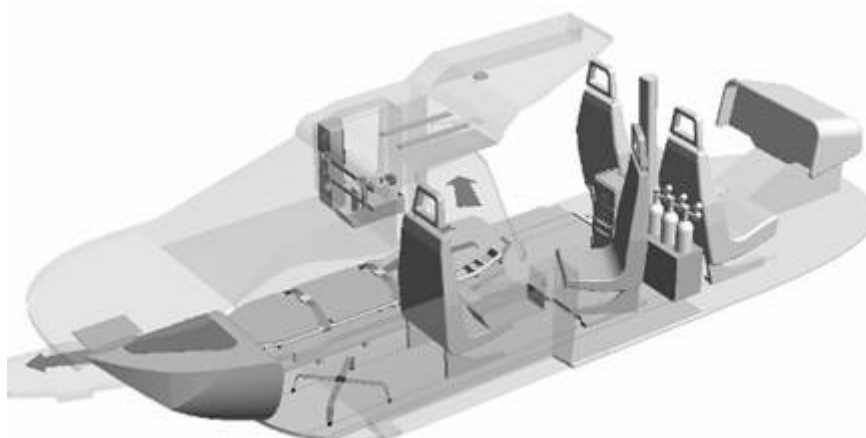
Document reference	Commercial reference	Title	Weight (margin \pm 3 %)	
			kg	lb
07-27008-A	L2522-160-00	One (1) rear RH passenger seat in FWD	11.1	24.4
07-77001-A	L8521-001-00	EMS main switch in overhead console for Aerolite installation	0.2	0.4

5.2.2.2.3 Recommended optional equipment for EMS packages see chapter 5.2.4 page 63

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

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

5.2.2.3 “Intensive Care EMS kit” – Aerolite (STC)



5.2.2.3.1 Content:

Document reference	Commercial reference	Title	Weight (margin ± 3 %)	
			kg	lb
07-70030-A	AL2035-003	Intensive Care EMS Kit – Aerolite (STC) consisting of:	151.5	334.0
		1 Ceiling rails LH		
		1 DC power and lighting System		
		1 Integral floor, detachable parts		
		1 Integral Floor, fixed provisions		
		1 IV Hook LH		
		1 Life support panel LH		
		1 Med oxygen system 3x3 Lt., detachable parts		
		1 Med oxygen system 3x3 Lt., fixed provisions		
		1 Med rack rear LH, detachable parts		
		1 Med rack rear LH - fixed provisions		
		1 Med suction system, detachable parts		
		1 Med suction system, fixed provisions		
		1 Medium height med cabinet, detachable parts		
		1 Medium height med cabinet, fixed provisions		
		1 Pax seat cover - fixed provisions		
		1 Pax seat cover, detachable parts		
		1 Rear door stowage RH		
		1 Slide & swivel seat FWD RH, detachable parts		
		1 Slide & swivel seat FWD RH, fixed provisions		
		1 Stretcher LH - Cirrus 2000 with stretcher platform, detachable parts		
		1 Stretcher LH - Cirrus 2000 with stretcher platform, fix provisions		
		1 Tie down web		
		1 Window stowage shell RH		

5.2.2.3.2 Minimum required equipment:

Document reference	Commercial reference	Title	Weight (margin ± 3 %)	
			kg	lb
07-27008-A	L2522-160-00	One (1) rear RH passenger seat in FWD	11.1	24.4
07-77001-A	L8521-001-00	EMS main switch in overhead console for Aerolite installation	0.2	0.4

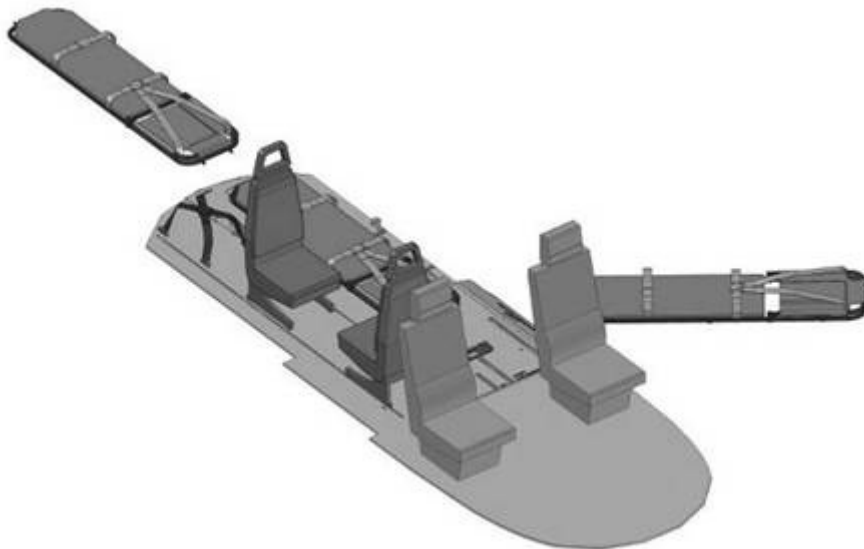
5.2.2.3.3 Recommended optional equipment for EMS packages see chapter 5.2.4 page 63

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

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

5.2.3 Packages from Air Ambulance Technology (AAT)

5.2.3.1 "EMS / Law enforcement kit" – AAT (STC)



5.2.3.1.1 Content:

Document reference	Commercial reference	Title	Weight (margin \pm 3 %)	
			kg	lb
07-70021-A	135-25-20-5000-515	EMS / Law enforcement kit – AAT (STC) consisting of: 1 Belt system, Emergency Belts, Storage Case 1 Medical floor LH with locker system 1 Rescue stretcher	31.9	70.0

5.2.3.1.2 Minimum required equipment:

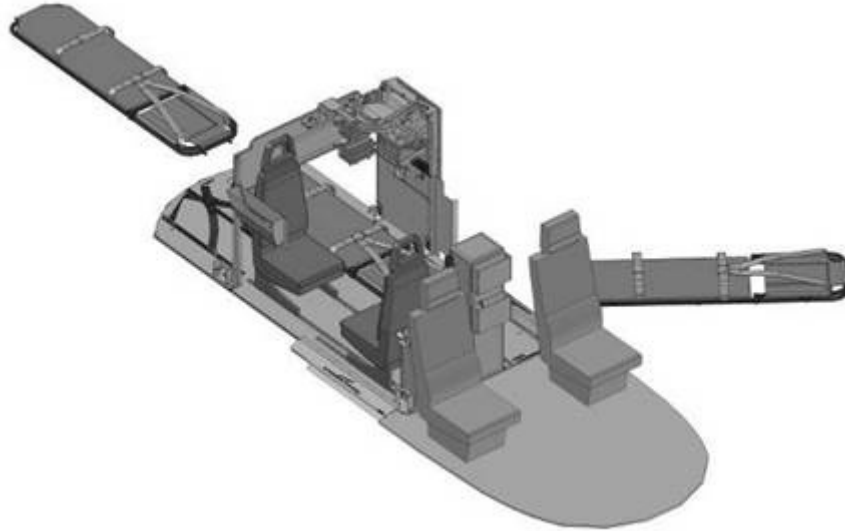
Document reference	Commercial reference	Title	Weight (margin \pm 3 %)	
			kg	lb
07-27001-A	L2522-002-00	Two (2) rear passenger seats, facing forward	22.2	49.0

5.2.3.1.3 Recommended optional equipment for EMS packages see chapter 5.2.4 page 63

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

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

5.2.3.2 “EMS Standard kit” – AAT (STC)



5.2.3.2.1 Content:

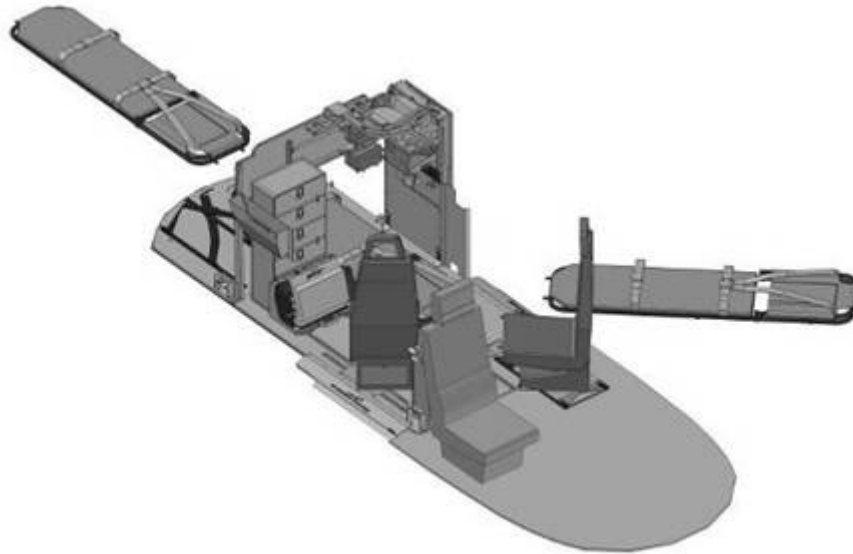
<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>	<i>Weight</i>	
			<i>kg</i>	<i>lb</i>
07-70022-A	135-25-20-5000-605	EMS Standard Kit – AAT (STC) consisting of:	126.4	278.0
		1 Belt system, Emergency Belts, Storage Case		
		1 Medical cabinet		
		2 Medical crew seat adjustable		
		1 Medical equipment carrier		
		1 Medical floor with locker system		
		1 Oxygen air station incl. 4x oxygen bottles		
		1 Rescue stretcher		

5.2.3.2.2 Recommended optional equipment for EMS packages see chapter 5.2.4 page 63

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

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

5.2.3.3 “EMS Advanced kit” – AAT (STC)



5.2.3.3.1 Content:

<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>	<i>Weight</i> (margin ± 3 %)	
			<i>kg</i>	<i>lb</i>
07-70023-A	135-25-20-5000-603	EMS Advanced Kit – AAT (STC) consisting of:	142.1	313.0
		1 Adapter floor		
		1 Belt system, Emergency Belts, Storage Case		
		1 Medical cabinet - AFT		
		2 Medical crew seat swiveling		
		1 Medical equipment carrier		
		1 Medical floor with locker system		
		1 Oxygen air station incl. 4x oxygen bottles		
		1 Rescue stretcher		

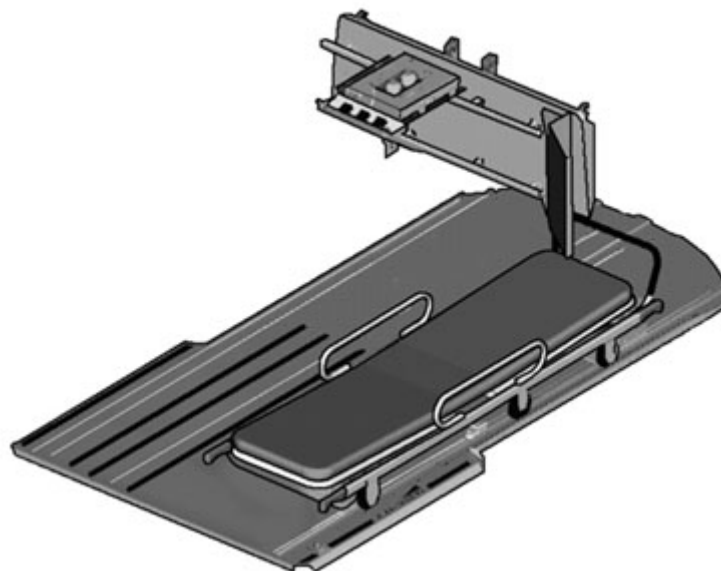
5.2.3.3.2 Recommended optional equipment for EMS packages see chapter 5.2.4 page 63

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

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

5.2.4 Packages from Bucher Leichtbau

5.2.4.1 EMS basic kit, rear loading – Bucher Leichtbau (STC)



5.2.4.1.1 Content:

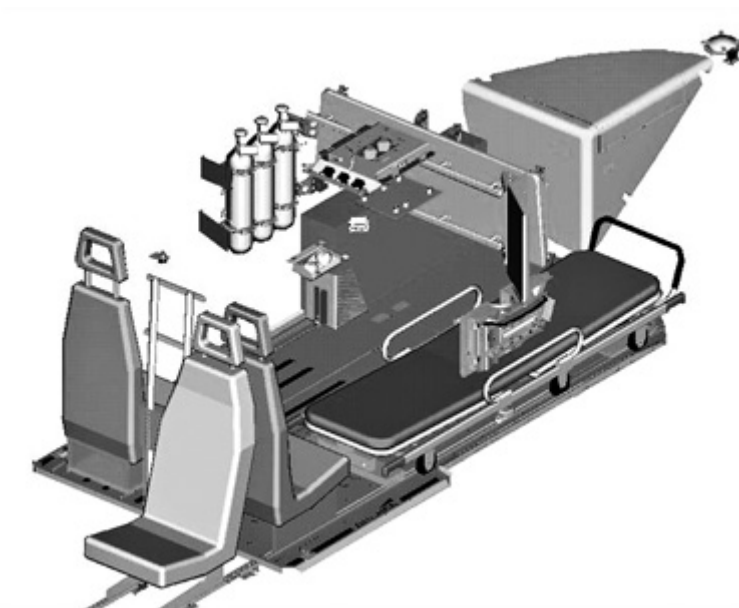
Document reference	Commercial reference	Title	Weight (margin ± 3 %)	
			kg	lb
07-70025-A	ARA-EC135-AC65-B	EMS basic kit, rear loading – Bucher Leichtbau (STC) consisting of:	102.0	224.9
		1 409 Wheel stretcher		
		1 Centre light		
		1 Electrical supply system		
		1 Integral floor		
		1 Medical wall		
		1 Stretcher loading platform and retainer AFT		
		1 Stretcher retainer FWD		
		2 Tie down (LH & RH)		

5.2.4.1.2 Recommended optional equipment for EMS packages see chapter 5.2.4 page 63

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

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

5.2.4.2 EMS high sophisticated kit, rear loading – Bucher Leichtbau (STC)



5.2.4.2.1 Content:

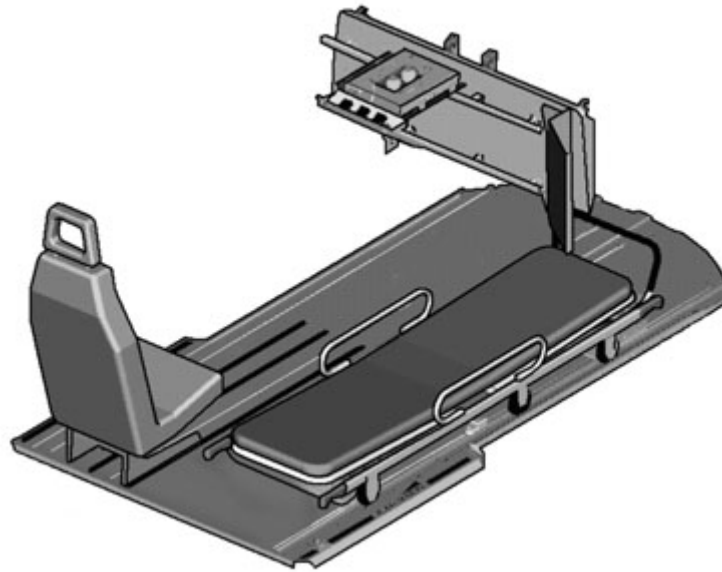
Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)	
			kg	lb
07-70024-A	ARA-EC135-AC65-HS	EMS high sophisticated kit, rear loading – Bucher Leichtbau (STC) consisting of:	tbd	tbd
		1 12 V outlet FWD		
		1 12-2 foldable stretcher 16g		
		1 12-2 Stowage provision		
		1 409 Wheel stretcher		
		1 Attachment plate AFT RH Zarges box		
		1 Center cabinet		
		1 Centre light		
		1 Electrical charger & battery		
		1 Electrical supply system		
		1 EMS GPU-connector		
		1 Infusion hook		
		1 Integral floor		
		1 Light AFT		
		1 Light FWD		
		1 Medical attendant seat type A		
		2 Medical attendant seat type B (swiveling)		
		1 Medical wall		
		1 Modification kit front rail 409 stretcher		
		1 Oxygen bottle rack		
		3 Oxygen supply hose		
		1 Rear door stowage unit		
		1 Reversible copilot seat (modification)		
		1 Roof rail		
		1 Stretcher loading platform and retainer AFT		
		1 Stretcher retainer AFT		
		2 Stretcher retainer FWD		
		1 Suction unit in side cabinet LH		
		1 Tie down LH		
		1 Tie down RH		

5.2.4.2.2 Recommended optional equipment for EMS packages see chapter 5.2.4 page 63

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

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

5.2.4.3 EMS basic kit, side and rear loading – Bucher Leichtbau (STC)



5.2.4.3.1 Content:

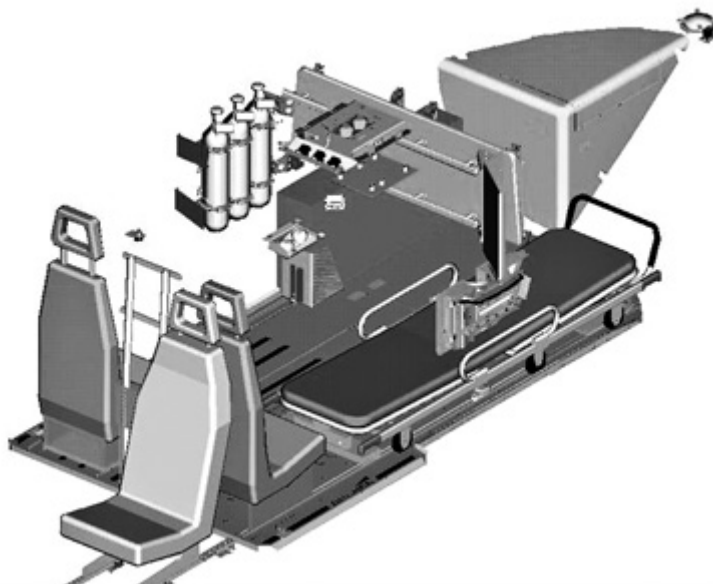
<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>	<i>Weight</i>	
			<i>kg</i>	<i>lb</i>
07-70027-A	ARA-EC135-AC61-B	EMS basic kit, side and rear loading – Bucher Leichtbau (STC) consisting of: 1 Centre light 1 Electrical supply system 1 Integral floor 1 Medical wall 1 Reversible copilot seat (modification) 1 Side- and rear-load stretcher	101.2	223.1

5.2.4.3.2 Recommended optional equipment for EMS packages see chapter 5.2.4 page 63

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

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

5.2.4.4 EMS high sophisticated kit, side and rear loading – Bucher Leichtbau (STC)



5.2.4.4.1 Content:

Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)	
			kg	lb
07-70026-A	ARA-EC135-AC61-HS	EMS high sophisticated kit, side and rear loading – Bucher Leichtbau (STC) consisting of:	189.0	416.7
		1 12 V outlet FWD		
		1 12-2 foldable stretcher 16g		
		1 12-2 Stowage provision		
		1 Attachment plate AFT RH Zarges box		
		1 Center cabinet		
		1 Centre light		
		1 Electrical charger & battery		
		1 Electrical supply system		
		1 EMS GPU-connector		
		1 Infusion hook		
		1 Integral floor		
		1 Light AFT		
		1 Light FWD		
		1 Medical attendant seat type A		
		1 Medical attendant seat type B (swiveling)		
		1 Medical wall		
		1 Oxygen bottle rack		
		3 Oxygen supply hose		
		1 Rear door stowage unit		
		1 Reversible copilot seat (modification)		
		1 Roof rail		
		1 Side- and rear-load stretcher		
		1 Side cabinet RH		
		1 Stretcher retainer AFT		
		1 Stretcher retainer FWD		
		1 Suction unit in side cabinet LH		
		1 Tie down LH		
		1 Tie down RH		

5.2.4.4.2 Recommended optional equipment for EMS packages see chapter 5.2.4 page 63

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

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

5.2.5 Recommended optional equipment for EMS packages:

<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>	<i>Weight</i> (margin \pm 3 %)	
			<i>kg</i>	<i>lb</i>
07-50026-A	L5231-001-00	One-hand latching system for clam-shell doors	1.0	2.2
07-50027-A	L5231-002-00	Extended opening fasteners for clam-shell doors	0.3	0.9
07-50025-A	L5211-004-10	Securing device for complete opening of copilot door (copilot pitot / static system required)	0.8	1.8
05-31027-A	L5633-001-10	Window in clam-shell door, LH	0.6	1.3

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

6 Optional equipment

6.1 Shopping list

General Equipment

Document reference	Commercial reference	Title	Weight (margin $\pm 3\%$)	
			kg	lb
05-02016-A	L1111-002-00	Two-color external painting instead of single color painting	1.5	3.3
05-02016-A	L1111-004-00	Multicolor external painting instead of single color painting	2.0	4.4
05-03007-A	L2562-001-00	First aid kit	1.3	2.9
05-03008-A	L2562-001-10	First aid kit for DGAC certification	2.8	6.2
05-12001-A	L5232-001-00	Multifunction handle on the main gear box cowling (LH and RH)	0.6	1.3
05-12002-A	L2551-003-00	Additional 4 tie-down fittings for airline attachment rails	0.6	1.3
05-21015-A	L8541-001-10	Wire strike protection system, fixed provisions	3.3	7.3
05-21015-A	L8541-001-20	Wire strike protection system, detachable parts	8.2	18.1
05-22014-A	L5371-001-00	Engine outlet heat protection	1.2	2.7
05-22013-B	L7100-001-00	Automatic in flight power check	0.0	0.0
05-22007-A	L7924-001-00	Fuzz burners for engines	1.2	2.6
05-22008-A	L2621-001-00	Engine fire extinguishing system	3.6	7.9
05-23006-A	L7165-002-00	Engine compressor washing device	3.2	7.1
05-24017-A	L6211-014-00	Sand erosion protection kit for rotor blades	0.9	2.0
05-25016-A	L7161-001-10	Sand filter system, fixed provisions	10.1	22.3
05-25016-A	L7161-001-20	Sand filter system, detachable parts	26.2	57.8
05-26012-A	L1241-001-00	Anti-corrosion protection for high corrosive environment	2.0	4.4
05-31025-A	L5211-002-00	Sliding window in sliding doors	0.9	2.0
05-31026-B	L2514-002-00	Tinted sun shades for cockpit windshield roof section	1.9	4.2
05-31026-B	L5621-001-00	Tinted window for cockpit doors	0.0	0.0
05-31026-B	L5632-001-00	Tinted windows for passenger cabin (incl. sliding window for sliding doors)	0.9	2.0
05-31027-A	L5633-001-10	Window in clam-shell door, LH	0.6	1.3
05-31027-A	L5633-001-20	Window in clam-shell door, RH	0.6	1.3
05-31028-A	L2524-030-10	IFR – training screen, fixed provisions	0.1	0.2
05-31028-A	L2524-030-20	IFR – training screen, detachable parts	1.6	3.5
05-31045-A	L5211-001-11	Lockable sliding window in copilots' door	0.2	0.4
05-31045-A	L5211-001-12	Lockable sliding window in pilots' door	0.2	0.4
05-32007-A	L3042-001-00	Windshield wiper system	4.9	10.8
05-34003-A	L2576-002-00	Dampers for avionics compartment (avionics compartment required)	1.6	3.5
05-37016-A	L6701-001-00	Copilot flight controls	6.0	13.2

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General Equipment (contd.)
Weight
 (margin $\pm 3\%$)

<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>	<i>kg</i>	<i>lb</i>
05-37017-A	L6721-001-00	Covers for copilot flight controls ¹⁶	-2.5	-5.5
05-39006-A	L2514-003-01	Map case in copilot door	0.5	1.1
05-39007-A	L3111-001-10	Map cases on instrument panel glare shield	0.6	1.3
05-39008-A	L3113-004-10	Illuminated chart holder for pilot side	0.9	2.0
05-39008-A	L3113-004-20	Illuminated chart holder for copilot side	0.9	2.0
05-42019-A	L2105-001-00	Air conditioning system	58.7	129.4
05-42020-A	L2105-001-10	Air conditioning system for tropical environment	61.9	136.5
05-61010-A	L2433-003-00	Battery, type "Saft", ULM, 27 Ah, 24 V instead of standard battery	8.2	18.1
05-61010-A	L2433-006-00	Battery, type "Saft", ULM, 40 Ah, 24 V instead of standard battery	16.8	37.0
05-71001-A	L6351-001-00	Rotor brake system	6.3	13.9
05-81032-A	L2818-100-10	Internal long range fuel tank system, fixed provisions	3.8	8.4
05-81032-A	L2818-100-20	Internal long range fuel tank system, detachable parts	35.2	77.6
05-81033-A	L2812-001-00	Self sealing fuel supply tanks	4.5	9.9
05-85008-A	L2843-001-00	Fuel management system (Fuel flow meters)	1.0	2.2
05-92009-A	L6611-001-10	Main rotor blade folding: basic kit	1.3	2.9
05-92009-A	L6611-001-20	Main rotor blade folding: fixed provisions for ground handling kit (basic kit required)	0.7	1.5
05-92009-A	L6611-001-30	Main rotor blade folding: ground handling kit	GSE	GSE
05-93007-A	L8544-002-00	Lashing points (wind speeds up to 100 kts) (weight GSE: 24.9 kg)	0.7	1.5
05-93008-A	L8544-001-00	Lashing points (wind speeds up to 40 kts)	2.4	5.3
05-95001-A	L1321-001-00	Tie-down and covering kit (long-term outside helicopter parking)	GSE	GSE
05-97001-B	L6201-001-30	Accelerometers (for Track & Balance system)	0.0	0.0
05-97002-B	L6201-002-10	Optical tracker, fixed provisions	0.1	0.2
05-97002-B	L6201-002-20	Optical tracker, detachable parts	0.7	1.5
05-97004-A	L6201-001-00	VMS II (Track & Balance system)	2.7	6.0

Specific Mission Equipment
Weight
 (margin $\pm 3\%$)

<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>	<i>kg</i>	<i>lb</i>
06-11021-A	L3274-001-10	Settling protectors, fixed provisions	1.9	4.2
06-11021-A	L3274-001-20	Settling protectors, detachable parts	7.6	16.8
06-11022-A	L3272-001-10	Snow skids, fixed provisions	0.9	2.0
06-11022-A	L3272-001-20	Snow skids, detachable parts	20.8	45.9
06-12007-A	L3273-001-00	Lengthened skids (standard landing gear only)	8.3	18.3
06-12009-A	L3216-001-10	High landing gear (instead of standard landing gear)	26.0	57.3

¹⁶ Stick, Pitch and Pedals have to be removed - thus negative delta weight

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Specific Mission Equipment (contd.)
Weight
 (margin $\pm 3\%$)

Document reference	Commercial reference	Title	kg	lb
06-21017-A	L8512-001-10	External hoist, fixed provisions ¹⁷	8.6	19.0
06-21017-A	L8512-001-20	External hoist 50m, detachable parts, ¹⁷ (incl. 1 week winch operator training)	58.8	129.6
06-21017-A	L8512-001-21	External hoist 90m, detachable parts, ¹⁷ (incl. 1 week winch operator training)	62.7	138.2
06-26011-A	L8511-002-10	Cargo hook mirrors, fixed provisions	0.8	1.8
06-26011-A	L8511-002-20	Cargo hook mirrors, detachable parts	3.9	8.6
06-27019-A	L8511-001-10	Cargo hook system, fixed provisions	3.2	7.1
06-27019-A	L8511-001-30	Cargo hook system, detachable parts (cargo hook mirrors required)	16.5	36.4
06-27022-A	L8511-005-10	Double cargo hook system, fixed provisions	4.3	9.5
06-27022-A	L8511-005-20	Double cargo hook system, detachable parts	22.1	48.7
06-45023-A	L3343-003-00	Landing & search light, 450 W	3.4	7.5
06-46001-A	L3344-001-00	Strobe lights, white	1.4	3.1
06-61015-A	L3215-001-10	Emergency floats, fixed provisions (standard landing gear only)	7.8	17.2
06-61015-A	L3215-001-21	Emergency floats, detachable parts (standard landing gear only)	64.6	142.4
06-65002-A	L2566-001-00	Emergency hammer	0.2	0.4
06-65004-A	L2625-003-00	2nd portable fire extinguisher	2.8	6.2
06-66008-A	L3353-005-00	Emergency lights (boarding step illumination and illuminated exit signs)	2.7	6.0
06-66009-A	L3322-001-00	Boarding step illumination	0.2	0.4
06-66010-A	L3353-006-20	Illuminated signs "NO SMOKING/FASTEN SEAT BELT"	0.3	0.7
06-66017-A	L3353-010-00	HEEL System (Helicopter Emergency Egress Lighting) (Emergency lights required)	5.6	12.3
06-67037-A	L2563-005-00	Underwater Locator Beacon, ELP-362D	0.5	1.1
06-67047-A	L2563-812-00	Automatic Deployable ELT	9.1	20.1
06-69005-A	L2341-006-61	Voice alert generator 611-014 (NAT)	0.5	1.1
06-81009-A	L8503-001-10	Fire extinguishing bucket attachment (Bambi Bucket), fixed provisions (cargo hook or double cargo hook system required)	0.9	2.0

¹⁷ Communication via copilot audio / comm. control unit

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Interior Layout
Weight
 (margin $\pm 3\%$)

<i>Document reference</i>	<i>Commercial reference</i>	<i>Title</i>	<i>kg</i>	<i>lb</i>
07-15016-A	L2512-003-10	Height adjustable pilot seat (instead of standard pilot seat)	3.7	8.1
07-15016-A	L2512-003-20	Height adjustable copilot seat (instead of standard copilot seat)	3.7	8.1
07-30012-A	L2581-001-00	Enhanced sound proofing kit	6.0	13.2
07-30013-A	L2524-002-00	Separation curtain for cockpit / cabin	2.0	4.4
07-30014-A	L2524-021-00	Separation curtain for cabin / cargo compartment incl. smoke detector in cargo compartment (avionics compartment required)	2.3	5.1
07-30015-A	L2524-001-00	Separation wall for cabin / cargo compartment incl. smoke detector in cargo compartment (avionics compartment required)	3.9	8.6
07-30018-A	L5213-003-00	Curtains for cabin windows (grey)	1.5	3.3
07-40005-A	L2513-200-00	Washable floor covering for cockpit	4.1	9.1
07-40005-A	L2513-210-00	Washable floor covering for cargo compartment	3.0	6.4
07-40005-A	L2513-220-00	Washable floor covering for cockpit, cabin and cargo compartment	11.8	26.0
07-40006-A	L2513-300-00	Carpet for cockpit and cabin	7.0	15.4
07-40006-A	L2513-310-00	Carpet for cockpit, cabin and cargo compartment	11.0	24.3
07-50025-A	L5211-004-10	Securing device for complete opening of copilot door (copilot pitot / static system required)	0.8	1.8
07-50026-A	L5231-001-00	One-hand latching system for clam-shell doors	1.0	2.2
07-50027-A	L5231-002-00	Extended opening fasteners for clam-shell doors	0.3	0.9
07-50028-A	L5213-001-11	Sliding door fastener, intermediate and max. position, LH	1.0	2.2
07-50028-A	L5213-001-12	Sliding door fastener, max. position, LH	0.4	0.9
07-50028-A	L5213-001-21	Sliding door fastener, intermediate and max. position, RH	1.1	2.4
07-50028-A	L5213-001-22	Sliding door fastener, max. position, RH	0.4	0.9
07-50034-A	L5212-001-00	Jettisonable cockpit doors	1.2	2.6
07-50039-A	L5211-010-00	Pre catch system for pilots' doors	0.2	0.4
07-50039-A	L5211-011-00	Pre catch system for sliding doors	0.2	0.4
07-83006-A	L2513-004-40	Quick detachable VIP carpet for passenger cabin	3.0	6.6

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Avionics			Weight (margin \pm 3 %)	
08-15028-A	L2319-002-41	Fixed provisions for GSM phone (antenna, 28VDC, interfacing to ICS)	2.3	5.1
08-15507-B	L2315-092-00	IRIDIUM satellite phone AEROPHONE (AERODATA)	4.6	10.1
08-16053-A	L2341-193-01	Audio/Comm. control system (3rd station - PAX) AS 3100-12 (BECKER) in cabin ceiling (LH)	2.7	6.0
08-17032-A	L2331-003-00	Cabin loudspeaker	2.5	5.5
08-18018-A	L2315-001-10	Headset H 10-76 (DAVID CLARK), Low Impedance Spiral Wire	0.5	1.1
08-18018-A	L2315-001-14	Headset H10-76 ANR/ENC (DAVID CLARK), Low Impedance Spiral Wire	0.9	2.0
08-35007-A	L2327-001-01	Traffic Advisory System TAS 9900BX with 3" indicator (RYAN)	11.0	24.3
08-46006-A	L3168-090-01	Digital moving Map DKG 3 (DORNIER), basic version without options ¹⁸ ,	2.9	6.4
08-53004-A	L3424-000-00	AHRS Free Steering Mode	0.4	0.9
08-83021-A	L3172-001-00	STEADYCONTROL [®] (Track, Balance and Vibration recording system)	tbd	tbd

NVG Equipment

Different solutions can be offered on request

Some avionics solutions can be NVG modified
 NVG compatible cabin and cargo compartment lighting
 NVG friendly external lighting kit, comprising position and anti-collision lights
 Landing & search light 400/200 W, NVG compatible

Tactical radios

Fixed provisions can be offered on request

Broadcast, Thermal Imaging and Video Surveillance Equipment

"Ultraforce II" (FLIR Systems) on request

¹⁸ Tactical mission equipment can not be certified by German Civil Aviation Authorities. Eurocopter will ensure that the equipment is compatible with the basic helicopter and will assist the customer in obtaining certification or acceptance approval in his country.

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6.2 Police

Different equipment can be offered on request:



- SP / DP IFR with FMS / NMS
- SMD68 on copilots' side (6" x 8" display)
- NVG compatible cockpit
- NVG friendly external lighting
- FLIR with Operator Console and Digital Video Downlink
- SX16 with IFCO, Laserpointer and slaving unit
- Loudspeaker System
- Weather radar
- Tactical radios
- Spoiler position for cockpit doors
- Rappelling devices for 2+2 persons
- IRIDIUM satellite phone
- Tactical direction finder, etc.



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6.3 Offshore

Different equipment can be offered on request:



- Automatic Deployable ELT
- Emergency floats
- Radar altimeter with voice warning
- Cockpit door jettison
- Emergency EXIT lighting
- AHRS Free Steering Mode
- HEELS (Helicopter Emergency Egress Lighting Syst.)
- Underwater Locator Beacon
- Search and weather radar
- Traffic Advisory System TAS 9900BX
- Cabin loudspeaker / Passenger address system
- *STEADYCONTROL*® Vibration recording system
- Corrosion prevention treatment for offshore operation
- Rear window with push-out (escape window)
- Life rafts



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7 Table of constraints

7.1 General Checklist for Incompatibilities

- Detachable parts require the related fixed provisions.
- All recommended configurations in Chapter 4 exclude each other. Mixed Configurations are possible but have to be individually checked.
- Separation between cabin and cargo compartment can not be selected for utility seat arrangements.
- Quick detachable VIP carpet for passenger cabin can only be combined with 5 Passenger Transport layout and washable floor covering.

- In the following category, only one item can be selected:
 - external painting
 - first aid kit
 - air conditioning system
 - battery
 - external hoist
 - cargo hook system
 - sliding door fastener (for each side of the helicopter)
 - separation between cabin and cargo compartment
 - floor covering
 - weather radar
 - moving map

- External Hoist has priority over (NSU - respective systems will be deactivated):
 - air conditioning systems
 - sandfilter

Commercial reference	Title	MSG	Commercial reference	Title
L8541-001-20	Wire Strike Protection System, (WSPS) detachable parts	The protective capability is significantly degraded in combination with	L8511-002-20	Cargo hook mirrors, detachable parts
			L2571-001-00	Radar radome
			L2327-001-01	Traffic Advisory System TAS 9900BX
			L3216-001-10	High landing gear
				FLIR / SX16 installation

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7.2 Legend of the following chart

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

Document Reference	Commercial Reference	Installation	Nature of the Constraint		Commercial Reference	Installation	Document Reference
			EXL	NSF			
-	-	Recommended EMS configurations		x	L2818-100-20	Internal long range fuel tank system, detachable parts	05-81032-A
-	---	Recommended EMS configurations		x	L2105-001-10	Air conditioning system for tropical environment	05-42020-A
-	---	Recommended EMS configurations	x		L2331-003-00	Cabin loudspeaker	
-	---	Pure single pilot cockpits (w/o copilot extension)	x		L3113-004-20	Illuminated chart holder for copilot side	05-39008-A
08-35007-A	L2327-001-01	Traffic Advisory System TAS 9900BX	x		L7161-001-10	Sand filter system, fixed provisions	05-31025-A
08-35007-A	L2327-001-01	Traffic Advisory System TAS 9900BX	x		L8541-001-20	Lower cutter of the Wire strike protection system, detachable parts	05-21015-A
07-40006-A	L2513-310-00	Carpet for cockpit, cabin and cargo compartment floor	x		L2818-100-20	Internal long range fuel tank system, detachable parts	05-81032-A
07-83003-A	L2525-104-00	VIP carpet for cockpit, cabin and cargo compartment	x		L2818-100-10 / 20	Internal long range fuel tank system	05-81032-A
08-83021-A	L3172-001-00	STEADY CONTROL [®] (Track, Balance and Vibration recording system)	x		L6201-001-00	VM II	05-97004-A
08-83021-A	L3172-001-00	STEADY CONTROL [®] (Track, Balance and Vibration recording system)	x		L6201-002-10	Accelerometers	05-97001-B
06-61015-A	L3215-001-21	Emergency floats, detachable parts (standard landing gear only)	x		L3273-001-00	Lengthened skids (standard landing gear only)	06-12007-A
06-61015-A	L3215-001-21	Emergency floats, detachable parts (standard landing gear only)		x	L8511-005-20	Double cargo hook system, detachable parts	06-27022-A
06-12009-A	L3216-001-10	High landing gear instead of standard landing gear	x		L3217-001-00	Reinforced rear landing gear cross tube	06-12008-A
06-11022-A	L3272-001-20	Snow skids, detachable parts		x	L3274-001-20	Settling protectors, detachable parts	06-11021-A
06-66010-A	L3353-006-20	Illuminated signs "NO SMOKING/FASTEN SEAT BELT"	x		---	Recommended EMS configurations	-
05-31025-A	L5211-002-00	Sliding window in sliding doors	x		L5632-001-00	Tinted windows for passenger cabin (dark grey) incl. sliding window for sliding doors	05-31026-B
07-50028-A	L5213-001-12	Sliding door fastener, max. position, LH	x		L8512-001-10	External hoist, fixed provisions	06-21017-A
05-31027-A	L5633-001-20	Window in clam-shell door, RH	x		---	Recommended EMS configurations	-
05-97001-B	L6201-002-10	Accelerometers	x		L6201-001-00	VMS II	05-97004-A

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8 Main performance

The following performance values and figures refer to an EC135, equipped with average production 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 (AEO) Pratt & Whitney PW206B2

Gross Weight	kg	2,400	2,630	2,720	2,835	2,910
	lb	5,290	5,800	6,000	6,250	6,415
■ Maximum speed (V_{NE})	km/h	278	278	278	259	259
	kts	150	150	150	140	140
■ Maximum cruising speed (V_H)	km/h	261	260	257	256	254
	kts	141	140	139	138	137
■ Fuel consumption at fast cruise speed	kg/h	234.5	234.5	234.5	234.5	234.5
	lb/h	517	517	517	517	517
■ Economical cruising speed	km/h	224	224	226	228	230
	kts	121	121	122	123	124
■ Fuel consumption at economical cruising speed	kg/h	193.5	198	200.5	204.5	208.5
	lb/h	427	436.5	442	451	460
■ Fuel consumption at 65 KIAS	kg/h	149.5	156	158.5	162	164.5
	lb/h	330	344	349.5	357	363
■ Rate of climb, TOP, SL, ISA	m/s	10.9	9.4	8.9	8.1	7.6
	ft/min	2,150	1,850	1,750	1,600	1,500
■ Hover ceiling IGE (4 ft AGL), TOP, no wind or headwind, ISA	m	4,570 ¹⁾	4,450	4,140	3,655 ²⁾	3,045 ³⁾
	ft	15,000 ¹⁾	14,600	13,600	12,000 ²⁾	10,000 ³⁾
■ Hover ceiling IGE (4 ft AGL), TOP, no wind or headwind, ISA + 20°C	m	3,880	3,415	3,095	2,695	2,435
	ft	12,750	11,200	10,150	8,850	8,000
■ Hover ceiling OGE, TOP, ISA	m	4,500	3,670	3,430	2,685	2,010
	ft	14,750	12,050	11,050	8,800	6,600
■ Hover ceiling OGE, TOP, ISA + 20°C	m	3,460	2,595	2,210	1,785	1,480
	ft	11,350	8,500	7,250	5,850	4,850
■ Service ceiling, MCP, (climb reserve 200 ft/min), ISA	m	6,095	5,410	5,155	3,655 ²⁾	3,045 ³⁾
	ft	20,000	17,750	16,900	12,000 ²⁾	10,000 ³⁾
■ Maximum range (without fuel reserve at economical cruise speed)						
■ standard fuel tank configuration (560 kg)	km	665	650	645	640	635
	nm	358	351	348	345	342
■ long range fuel tank configuration (730 kg)	km	875	860	850	840	835
	nm	472	464	459	454	451
■ Maximum endurance (without fuel reserve at 65 KIAS)						
■ standard fuel tank configuration (560 kg)	h:min	3:55	3:46	3:43	3:38	3:35
	h:min	5:10	4:59	4:55	4:49	4:45

1) 15,000 ft density altitude certification limit

2) 12,000 ft pressure altitude certification limit

3) 10,000 ft pressure altitude certification limit

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Performance on 1 engine (OEI) Pratt & Whitney PW206B2

Gross Weight		kg	2,400	2,630	2,720	2,835	2,910
		lb	5,290	5,800	6,000	6,250	6,415
■ Service ceiling with 100 ft/min climb reserve, MCP OEI-power, ISA	m		4,265	3,550	3,275	2,925	2,715
	ft		14,000	11,650	10,750	9,600	8,900
■ Service ceiling with 100 ft/min climb reserve, MCP OEI-power, ISA + 20°C	m		3,505	2,695	2,375	1,965	1,710
	ft		11,500	8,850	7,800	6,450	5,600
■ Rate of climb, MCP OEI-power, SL	m/s		3.4	2.3	1.9	1.4	1.1
	ft/min		665	450	375	275	215
■ Max. temperature for CAT A, take-off from clear heliport at SL	°C		+ 50	+ 50	+ 50	+ 46	+ 43
■ Max. gross weight hover IGE (4ft AGL), SL, ISA, no wind, 2 min OEI power	kg				2,835		
	lb				6,250		
■ Max. gross weight hover IGE (4ft AGL), SL, ISA + 20°C, no wind, 2 min OEI power	kg				2,675		
	lb				5,885		
■ Max. gross weight hover OGE, SL, ISA, no wind, 30 sec OEI power	kg				2,665		
	lb				5,875		
■ Max. gross weight hover OGE, SL, ISA + 20°C, no wind, 30 sec OEI power	kg				2,585		
	lb				5,687		
■ Max. gross weight CAT A, VTOL, SL, ISA / ISA + 20°C	kg				2,910		
	lb				6,415		

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Performance on 2 engines (AEO) Turbomeca Arrius 2B2

Gross Weight		kg	2,400	2,630	2,720	2,835	2,910
		lb	5,290	5,800	6,000	6,250	6,415
■ Maximum speed (V_{NE})	km/h		278	278	278	259	259
	kts		150	150	150	140	140
■ Maximum cruising speed (V_H)	km/h		261	260	257	256	254
	kts		141	140	139	138	137
■ Fuel consumption at fast cruise speed	kg/h		234.5	234.5	234.5	234.5	234.5
	lb/h		517	517	517	517	517
■ Economical cruising speed	km/h		237	237	237	239	240
	kts		128	128	128	129	130
■ Fuel consumption at economical cruising speed	kg/h		209	213	215	219	221
	lb/h		461	470	474	483	487
■ Fuel consumption at 65 KIAS	kg/h		159.0	165	167.5	170.5	173
	lb/h		350.5	364	369	376	381
■ Rate of climb, TOP, SL, ISA	m/s		10.9	9.4	8.9	8.1	7.6
	ft/min		2,150	1,850	1,750	1,600	1,500
■ Hover ceiling IGE (4 ft AGL), TOP, no wind or headwind, ISA	m		4,570 ¹⁾	4,570 ¹⁾	4,325	3,655 ²⁾	3,045 ³⁾
	ft		15,000 ¹⁾	15,000 ¹⁾	14,200	12,000 ²⁾	10,000 ³⁾
■ Hover ceiling IGE (4 ft AGL), TOP, no wind or headwind, ISA + 20°C	m		3,880	3,430	3,080	2,670	2,395
	ft		12,750	11,250	10,100	8,750	7,850
■ Hover ceiling OGE, TOP, ISA	m		4,570 ¹⁾	3,690	3,430	2,685	2,010
	ft		15,000 ¹⁾	12,100	11,050	8,800	6,600
■ Hover ceiling OGE, TOP, ISA + 20°C	m		3,470	2,545	2,175	1,740	1,450
	ft		11,400	8,350	7,150	5,700	4,750
■ Service ceiling, MCP, (climb reserve 200 ft/min), ISA	m		6,095	5,410	5,155	3,655 ²⁾	3,045 ³⁾
	ft		20,000	17,750	16,900	12,000 ²⁾	10,000 ³⁾
■ Maximum range (without fuel reserve at economical cruise speed)							
■ standard fuel tank configuration (560 kg)	km		645	635	630	625	620
	nm		348	343	340	337	334
■ long range fuel tank configuration (730 kg)	km		845	835	825	820	815
	nm		456	451	446	443	440
■ Maximum endurance (without fuel reserve at 65 KIAS)							
■ standard fuel tank configuration (560 kg)	h:min		3:39	3:32	3:29	3:26	3:23
	h:min		4:49	4:40	4:36	4:32	4:28

1) 15,000 ft density altitude certification limit

2) 12,000 ft pressure altitude certification limit

3) 10,000 ft pressure altitude certification limit

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Performance on 1 engine (OEI) Turbomeca Arrius 2B2

Gross Weight		kg	2,400	2,630	2,720	2,835	2,910
		lb	5,290	5,800	6,000	6,250	6,415
■ Service ceiling with 100 ft/min climb reserve, MCP OEI-power, ISA	m		4,510	3,790	3,520	3,185	2,955
	ft		14,800	12,450	11,550	10,450	9,700
■ Service ceiling with 100 ft/min climb reserve, MCP OEI-power, ISA + 20°C	m		3,730	2,830	2,500	2,070	1,795
	ft		12,250	9,300	8,200	6,800	5,900
■ Rate of climb, MCP OEI-power, SL	m/s		3.4	2.3	1.9	1.4	1.1
	ft/min		665	450	375	275	215
■ Max. temperature for CAT A, take-off from clear heliport at SL	°C		+ 50	+ 50	+ 50	+ 47	+ 43.5
■ Max. gross weight hover IGE (4ft AGL), SL, ISA, no wind, 2 min OEI power	kg				2,835		
	lb				6,250		
■ Max. gross weight hover IGE (4ft AGL), SL, ISA + 20°C, no wind, 2 min OEI power	kg				2,690		
	lb				5,930		
■ Max. gross weight hover OGE, SL, ISA, no wind, 30 sec OEI power	kg				2,665		
	lb				5,875		
■ Max. gross weight hover OGE, SL, ISA + 20°C, no wind, 30 sec OEI power	kg				2,615		
	lb				5,765		
■ Max. gross weight CAT A, VTOL, SL, ISA / ISA + 20°C	kg				2,910		
	lb				6,415		

OPERATING LIMITATIONS (valid for both versions, EC135 P2+ and EC135 T2+)

The helicopter can be operated within the following altitude and temperature limitations (according to the Flight Manual):

Gross Weight	2,720 kg	2,835 kg	2,910 kg
	6,000 lb.	6,250 lb.	6,415 lb.
■ Maximum operating altitude	6,095 m PA 20,000 ft PA	3,655 m PA 12,000 ft PA	3,045 m PA 10,000 ft PA
■ Maximum operating altitude for hover in ground effect, takeoff and landing	4,570 m DA 15,000 ft DA	3,655 m PA 12,000 ft PA	3,045 m PA 10,000 ft PA
■ Minimum temperature	-35°C (-31°F)		
■ Maximum temperature	ISA + 39°C (max. + 50°C / + 122°F)		

Abbreviations

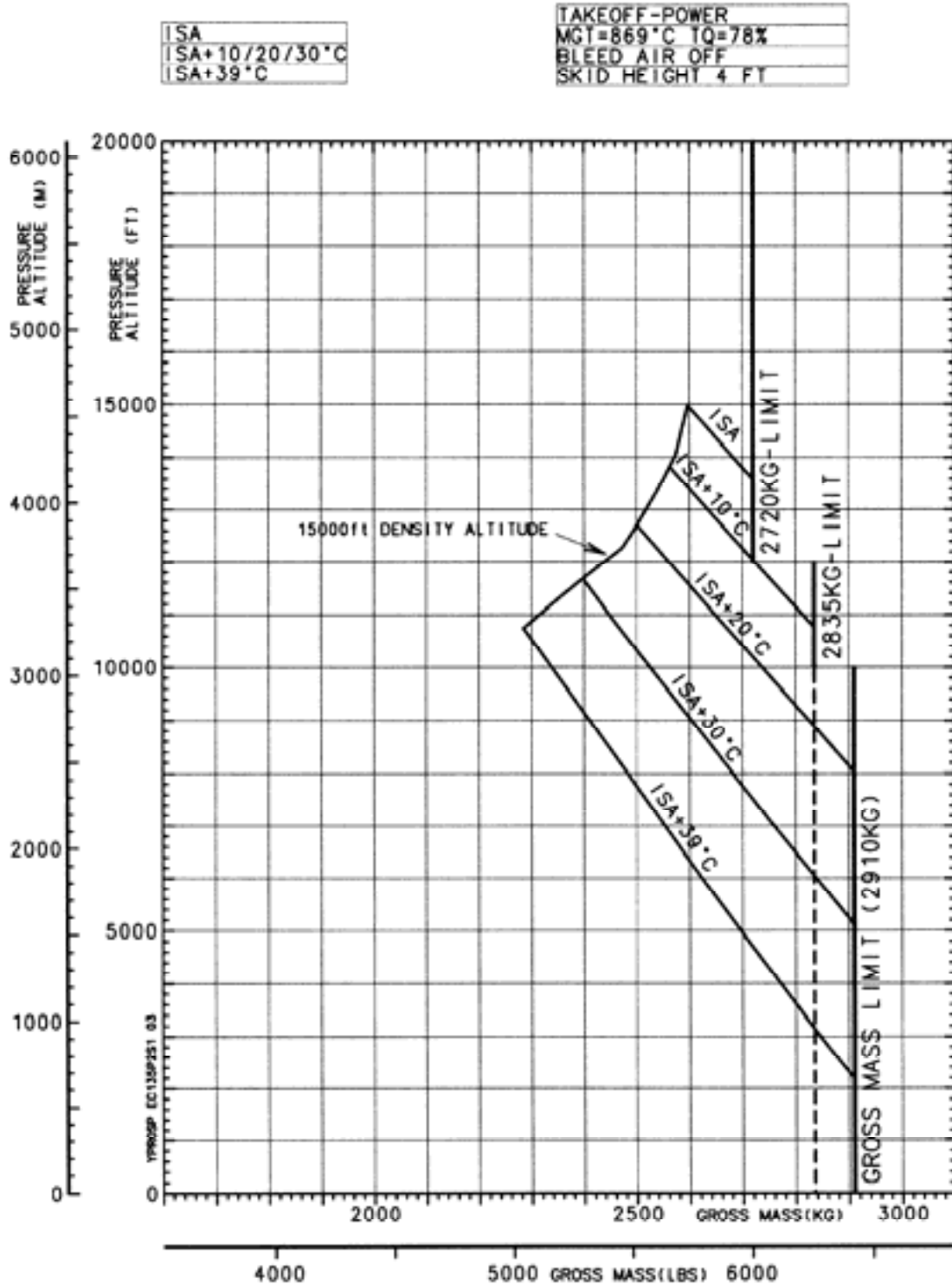
AGL	Above Ground Level	OGE	Out Of Ground Effect
DA	Density Altitude	PA	Pressure Altitude
IGE	In Ground Effect	SL	Sea Level
ISA	International Standard Atmosphere	TOP	Take-Off Power
MCP	Maximum Continuous Power	VNE	Never-Exceed Speed
OEI	One Engine Inoperative	VTOL	Vertical Take-Off and Landing

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Hover In Ground Effect (HIGE, TOP, no wind)

with two PW206B2 engines



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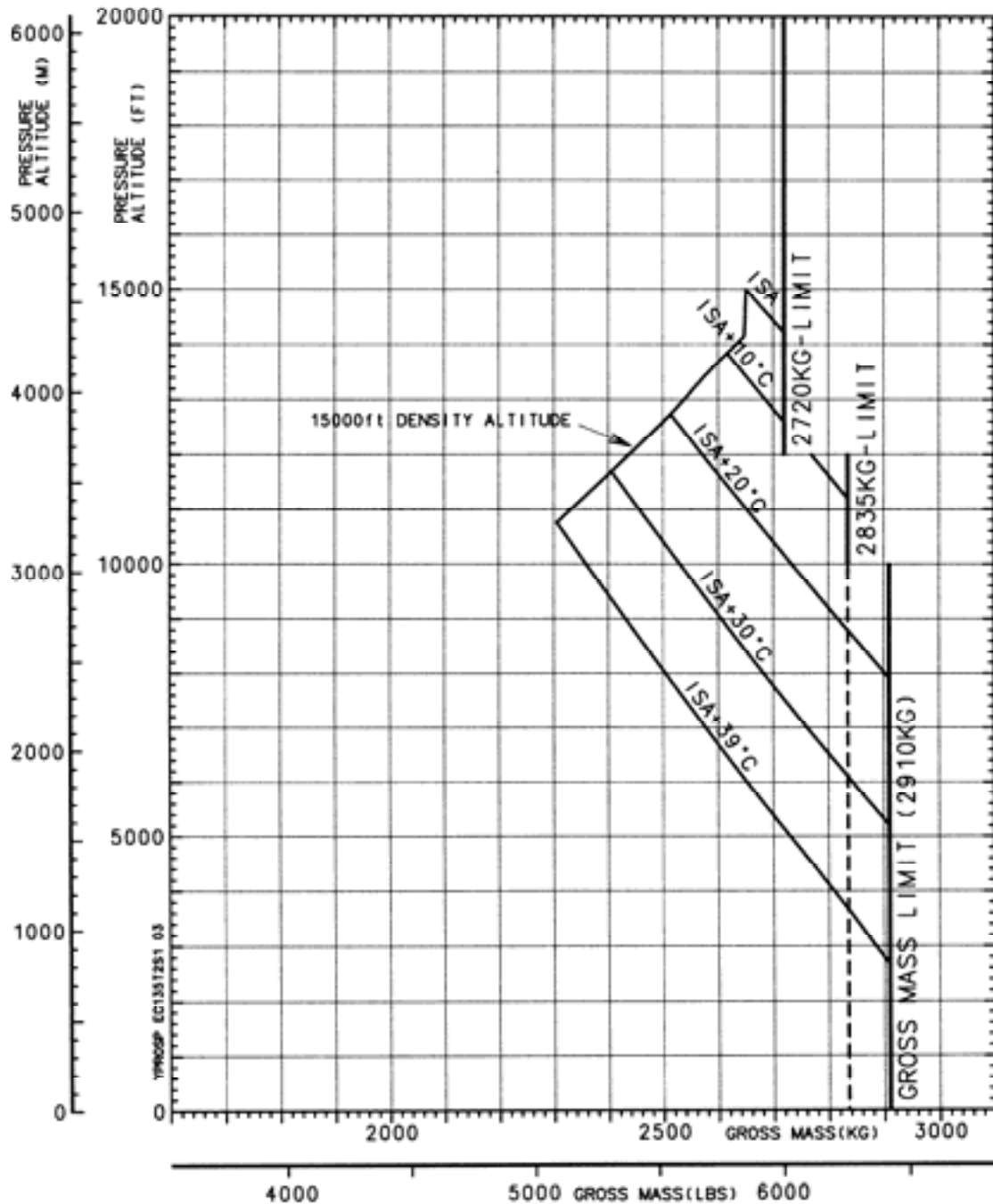
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Hover In Ground Effect (HIGE, TOP, no wind)

with two ARRIUS 2B2 engines

ISA
ISA+10/20/30°C
ISA+39°C

TAKEOFF-POWER
$\Delta N1 = 0.0\%$ $IQ = 78\%$
BLEED AIR OFF
SKID HEIGHT 4 FT



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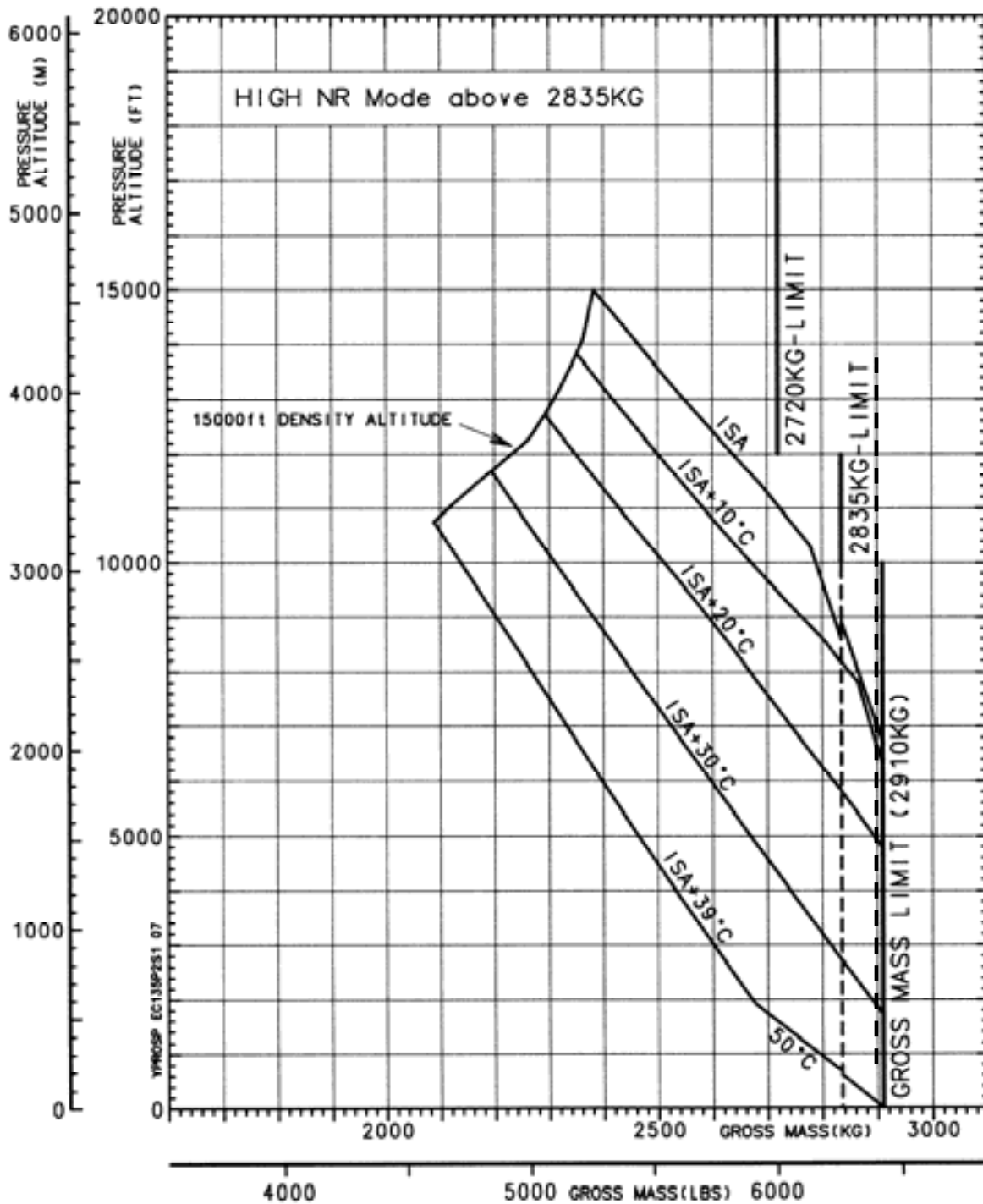
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Hover Out Of Ground Effect (HOGE, TOP)

with two PW206B2 engines

ISA
ISA+10/20/30°C
ISA+39°C

TAKEOFF - POWER
MGT=869°C TQ=78%
BLEED AIR OFF



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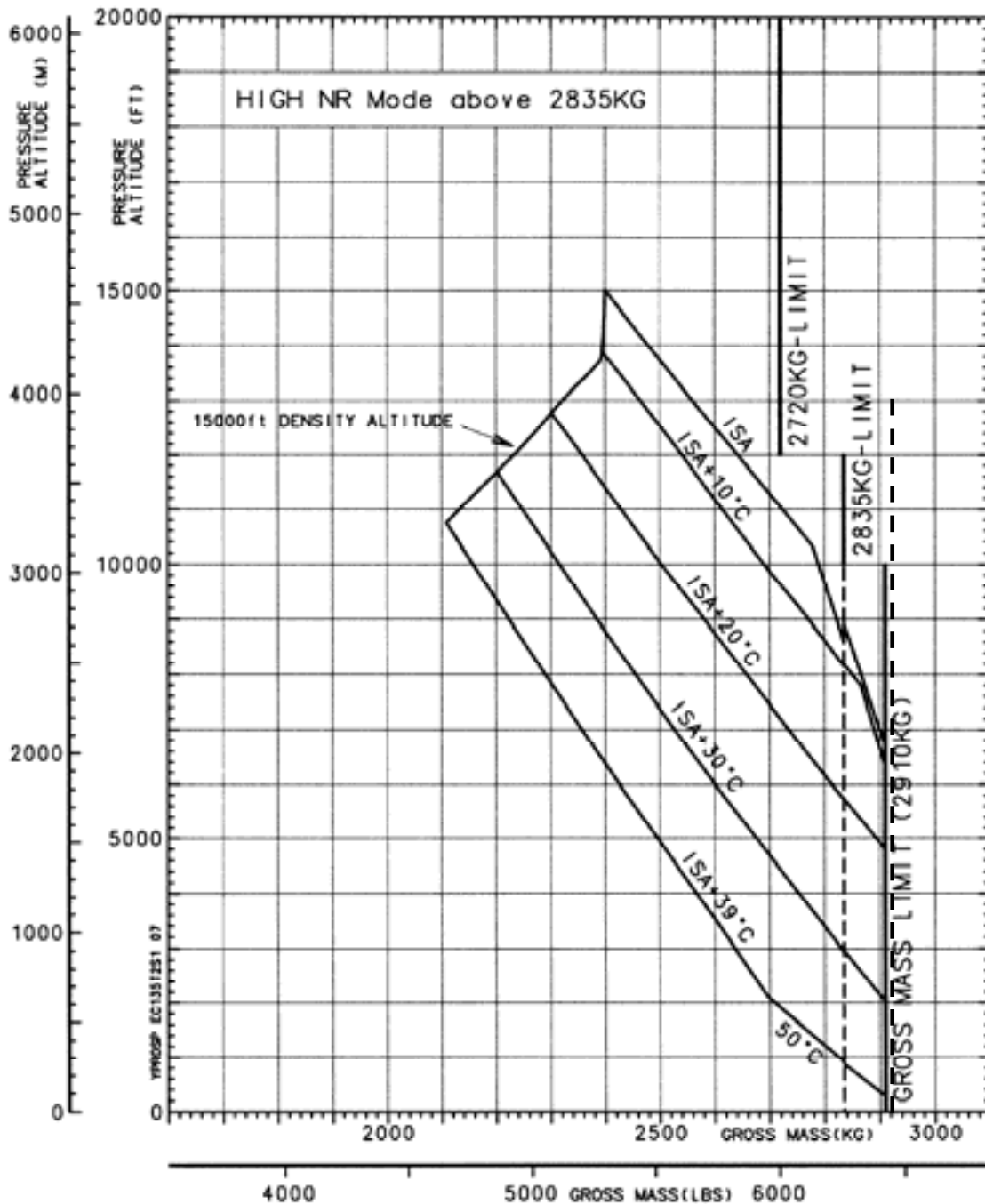
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Hover Out Of Ground Effect (HOGE, TOP)

with two ARRIUS 2B2 engines

ISA
ISA+10/20/30°C
ISA+39°C

TAKEOFF-POWER
$\Delta N1 = 0.0\%$ IQ=78%
BLEED AIR OFF



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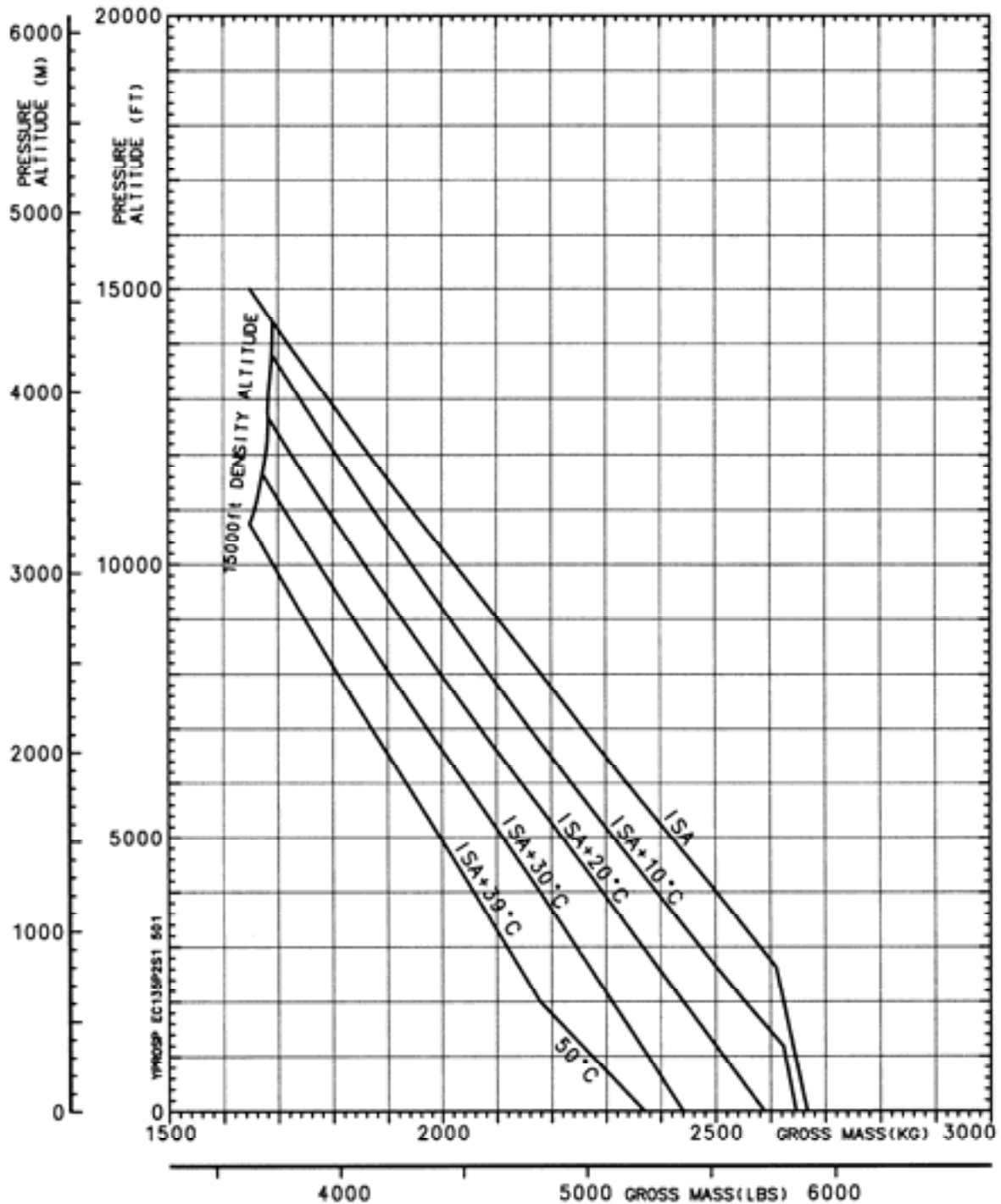
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Hover Out Of Ground Effect (HOGE, 30 sec OEI-power)

with one PW206B2 engine

ISA
ISA+10/20/30°C
ISA+39°C

OEI 30 SEC-POWER
MGT=990°C IQ=128%
BLEED AIR OFF



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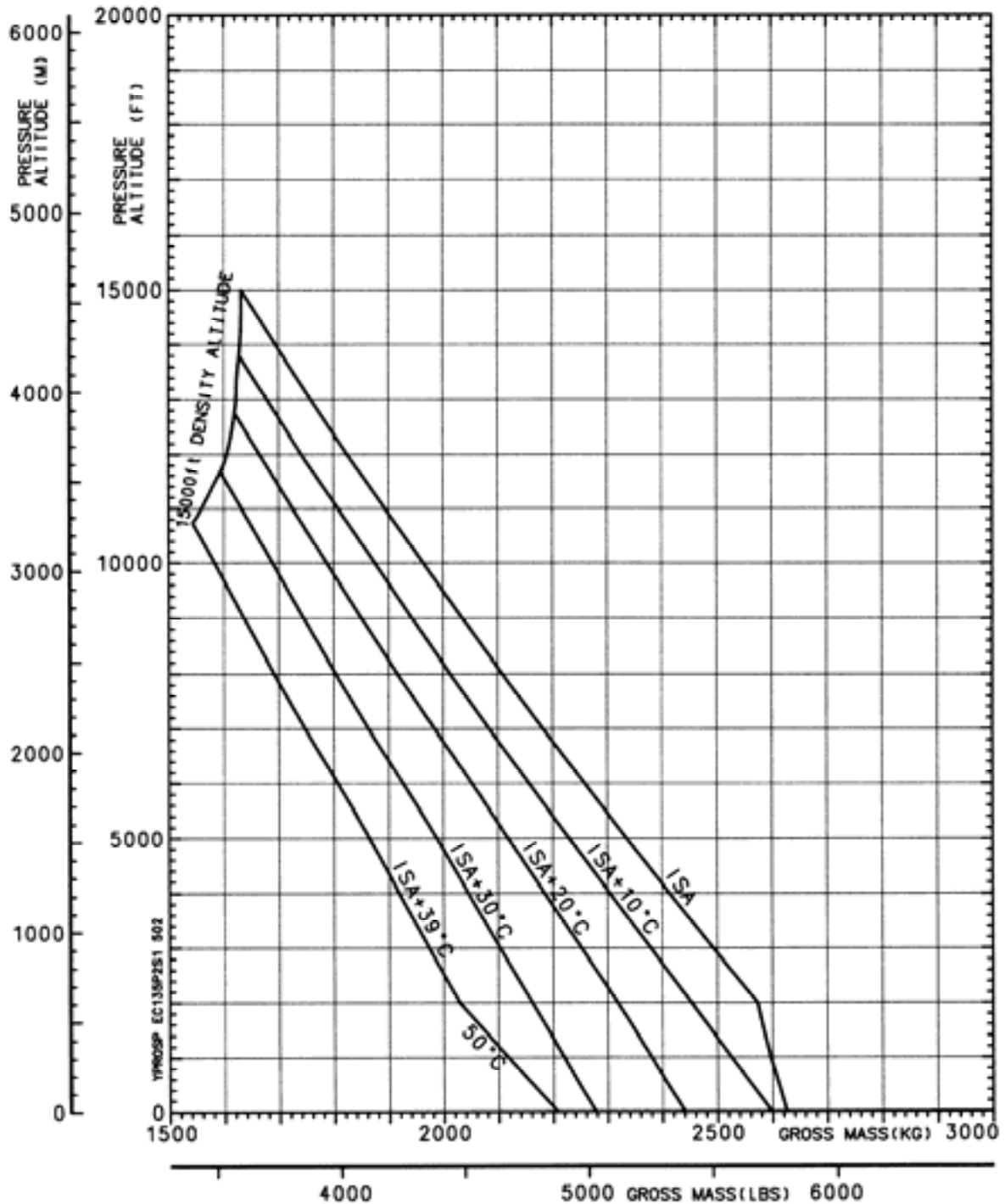
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Hover Out Of Ground Effect (HOGE, 2.0 min OEI-power)

with one PW206B2 engine

ISA
ISA+10/20/30°C
ISA+39°C

OEI 2.0 MIN-POWER
MGT=950°C IQ=125%
BLEED AIR OFF



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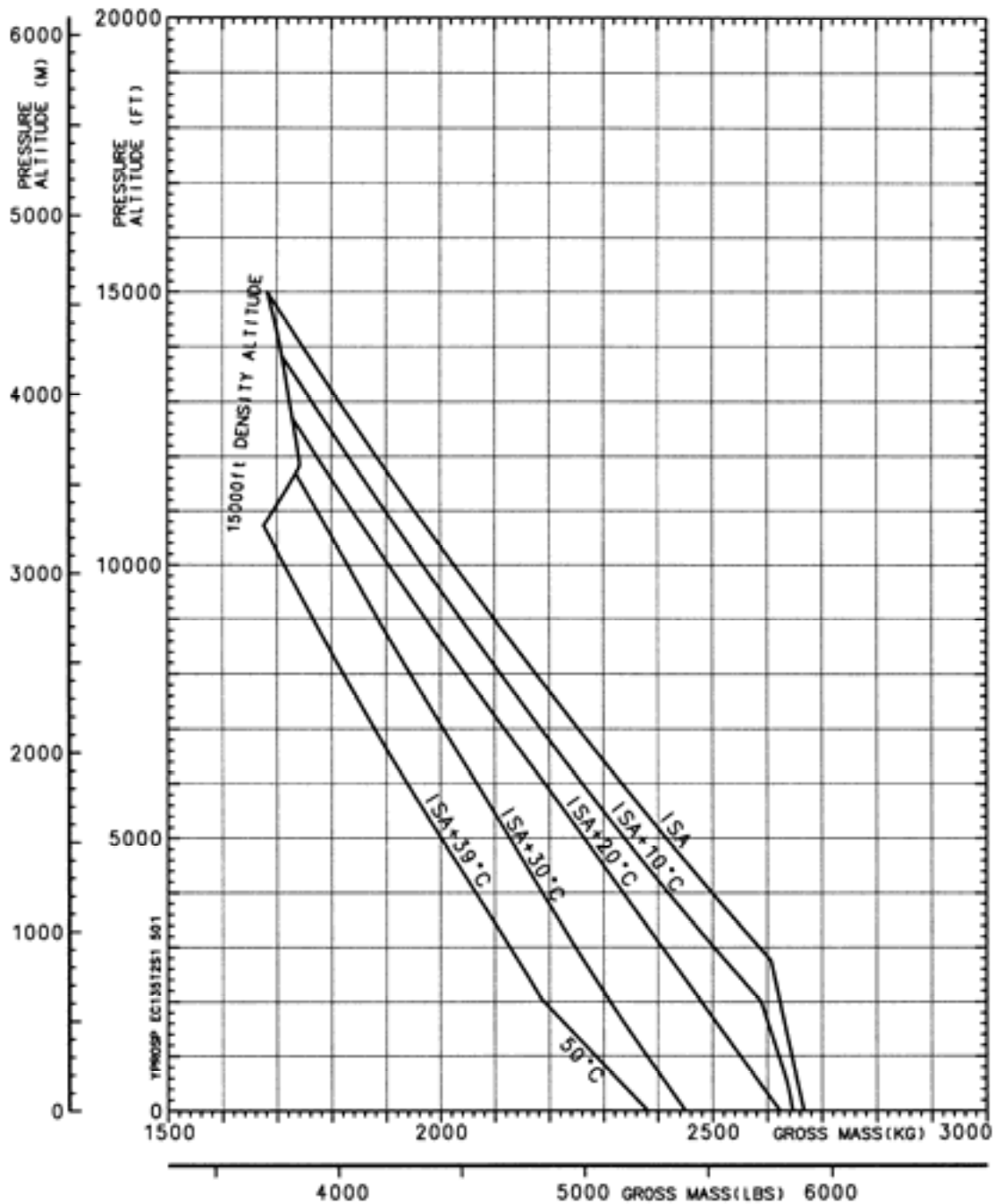
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Hover Out Of Ground Effect (HOGE, 30 sec OEI-power)

with one ARRIUS 2B2 engine

ISA
ISA+10/20/30°C
ISA+39°C

OEI 30 SEC-POWER
$\Delta N1 = +4.8\%$ TQ=128%
BLEED AIR OFF



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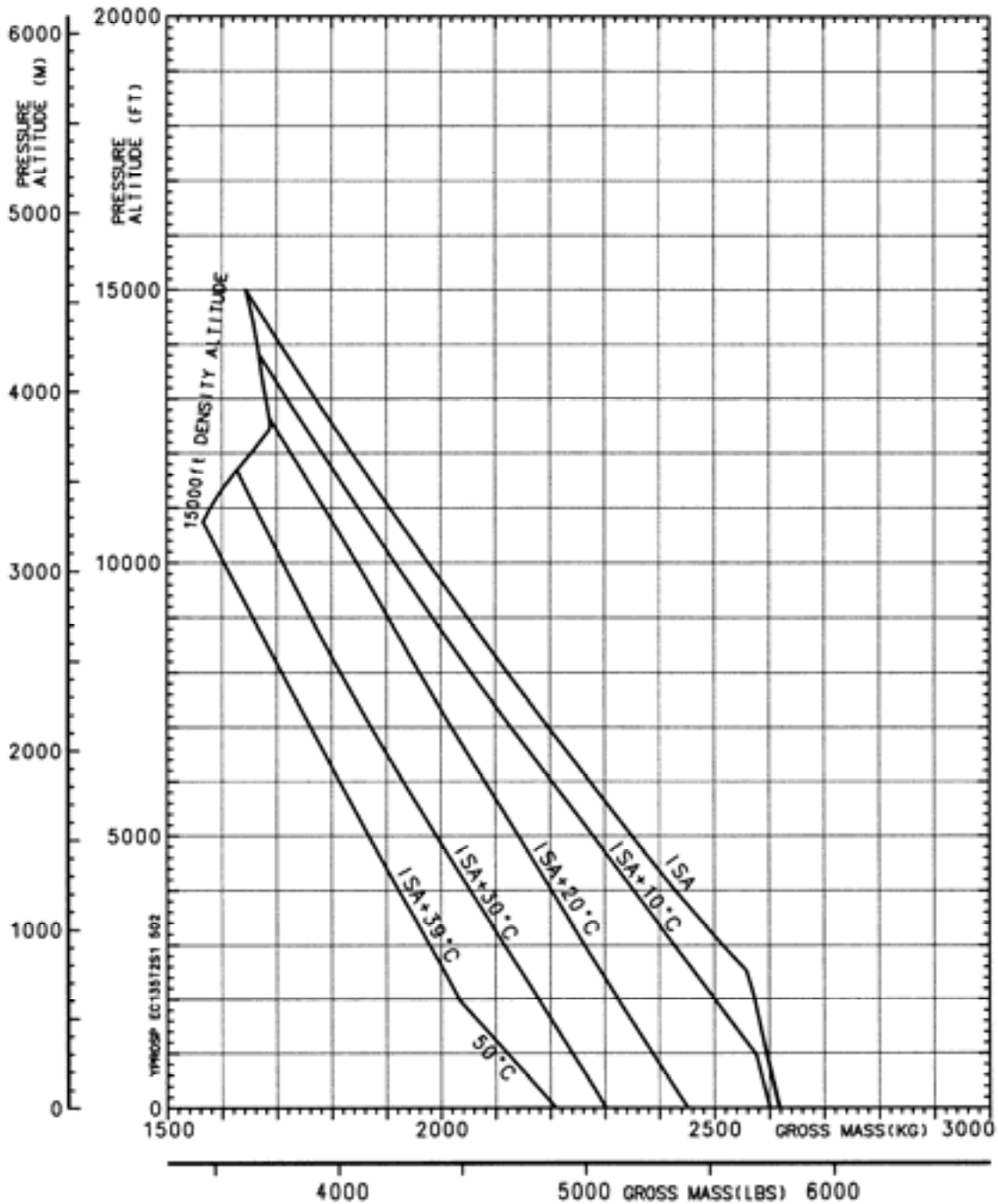
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Hover Out Of Ground Effect (HOGE, 2.0 min OEI-power)

with one ARRIUS 2B2 engine

ISA
ISA+10/20/30°C
ISA+39°C

OEI 2.0 MIN-POWER
ΔN1=+3.5% TQ=125%
BLEED AIR OFF



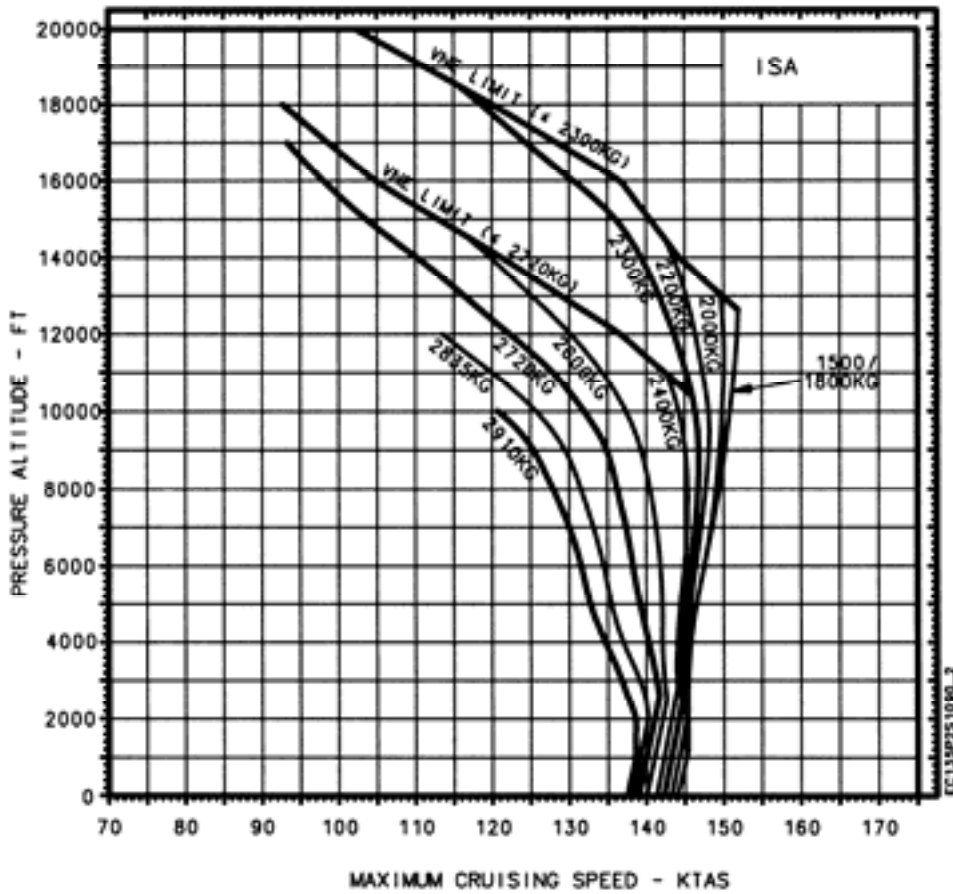
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Maximum Cruising Speed

with two PW206B2 engines

EC135 P2+
MAX. CRUISING SPEED
2 X PRATT & WHITNEY PW206B2
MCP POWER MGT = 835 °C
TRANSMISSION LIMIT 69 % TORQUE
BLEED AIR OFF



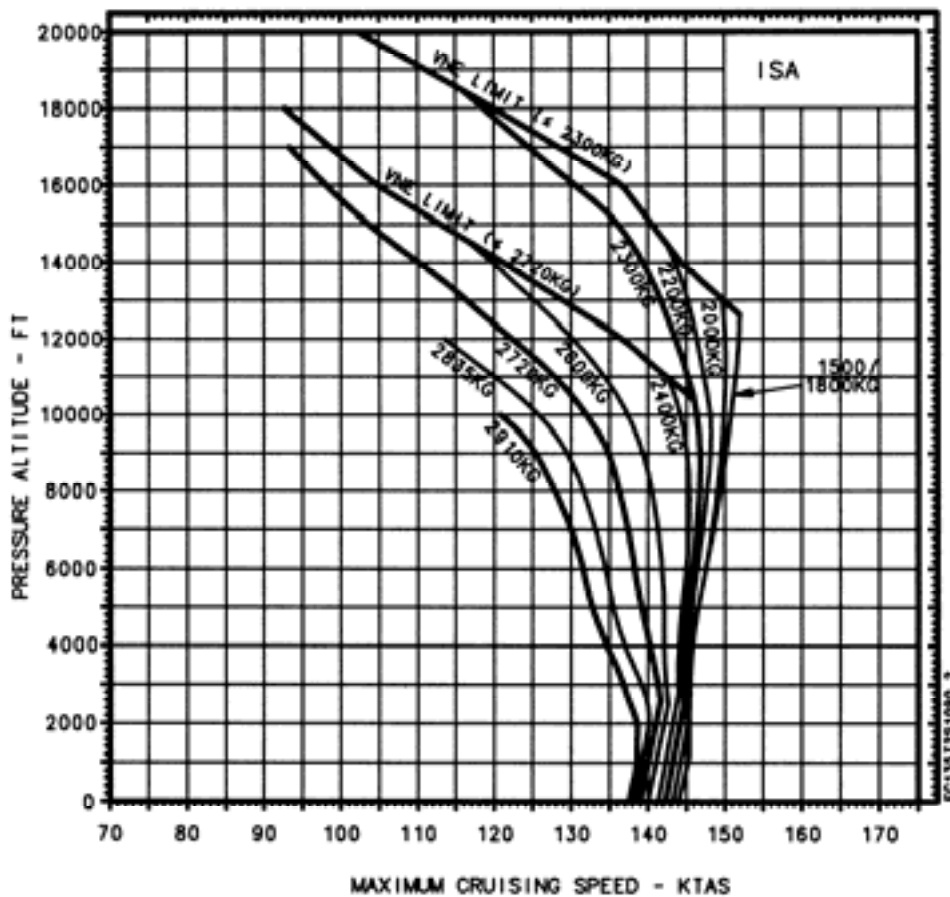
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Maximum Cruising Speed

with two ARRIUS 2B2 engines

EC135 T2+
MAX. CRUISING SPEED
2 X TURBOMECA ARRIUS 2B2
MCP POWER $\Delta N1 = -1.0\%$
TRANSMISSION LIMIT 69 % TORQUE
BLEED AIR OFF



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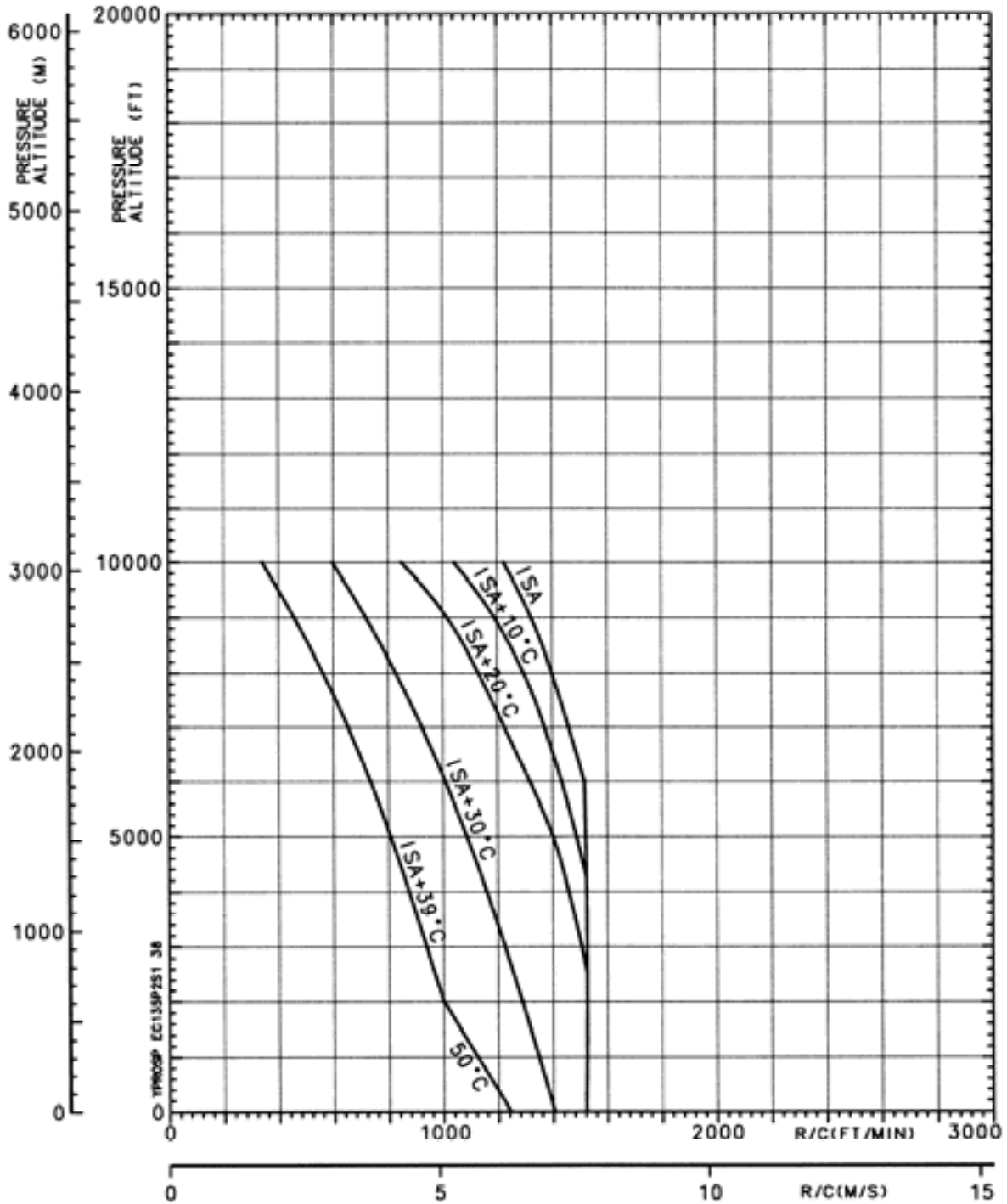
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Maximum Rate Of Climb, TOP

with two PW206B2 engines,

ISA
ISA+10/20/30°C
ISA+39°C

AEO TOP-POWER VY=65KT
MGT=869°C TQ=78%
BLEED AIR OFF
GROSS MASS 2910KG



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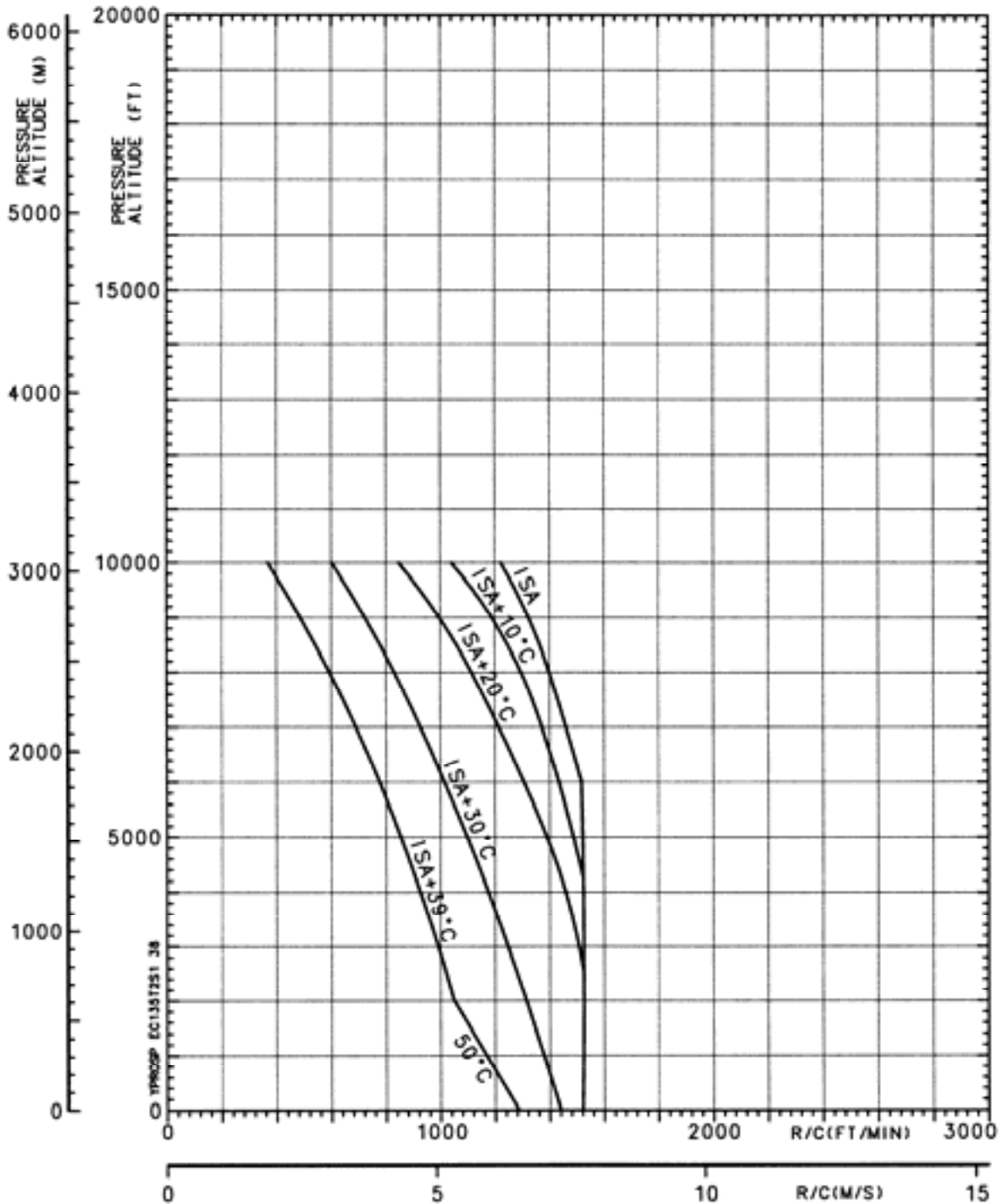
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Maximum Rate Of Climb, TOP

with two ARRIUS 2B2 engines,

ISA
ISA+10/20/30°C
ISA+39°C

AEO TOP-POWER VY=65KT
ΔN1= 0.0% IQ=78%
BLEED AIR OFF
GROSS MASS 2910KG



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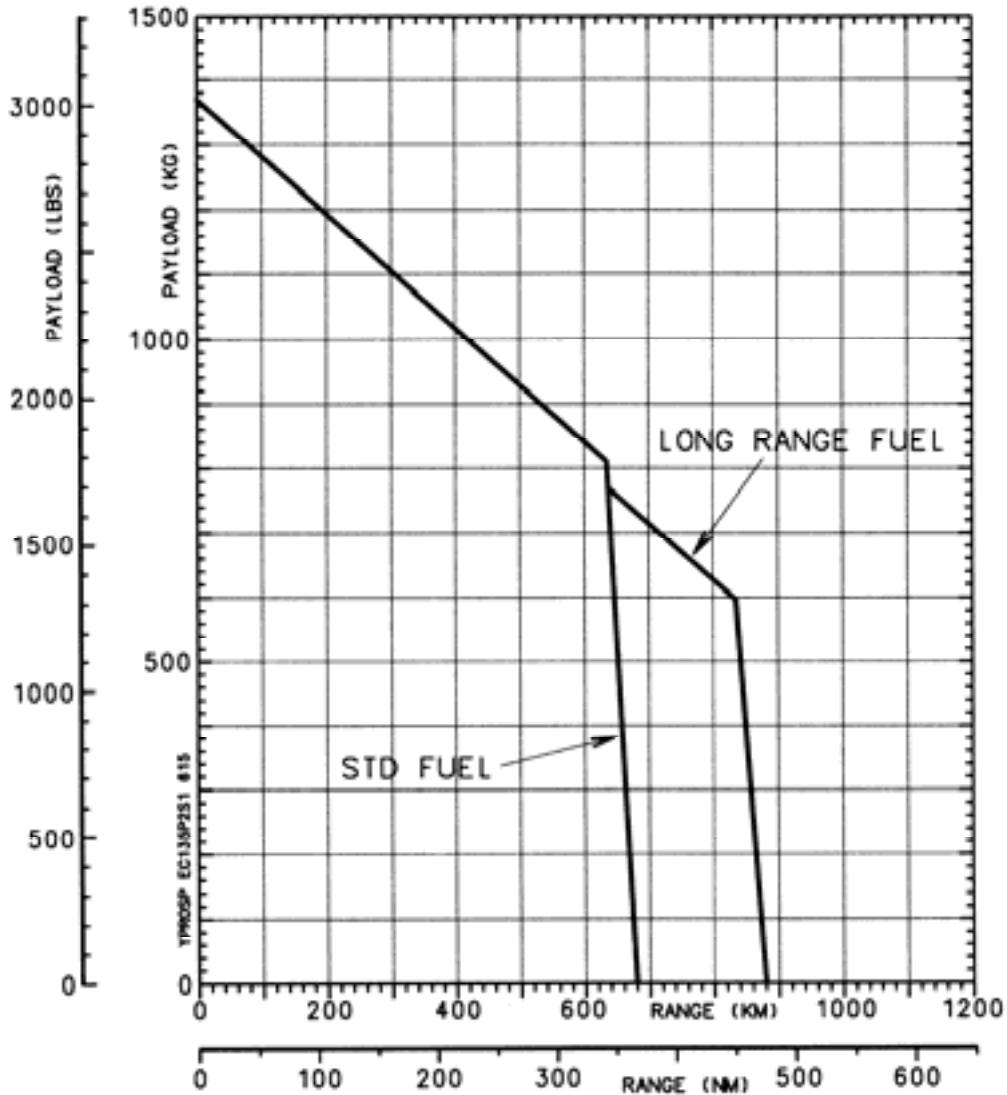
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Payload / Range

with two PW206B2 engines

TOW 2910KG
NO RESERVE
SL / ISA

EMPTY WEIGHT 1460KG/1503KG
USABLE STD FUEL 560KG
LONG RANGE FUEL TANK 170KG
PILOT 80KG



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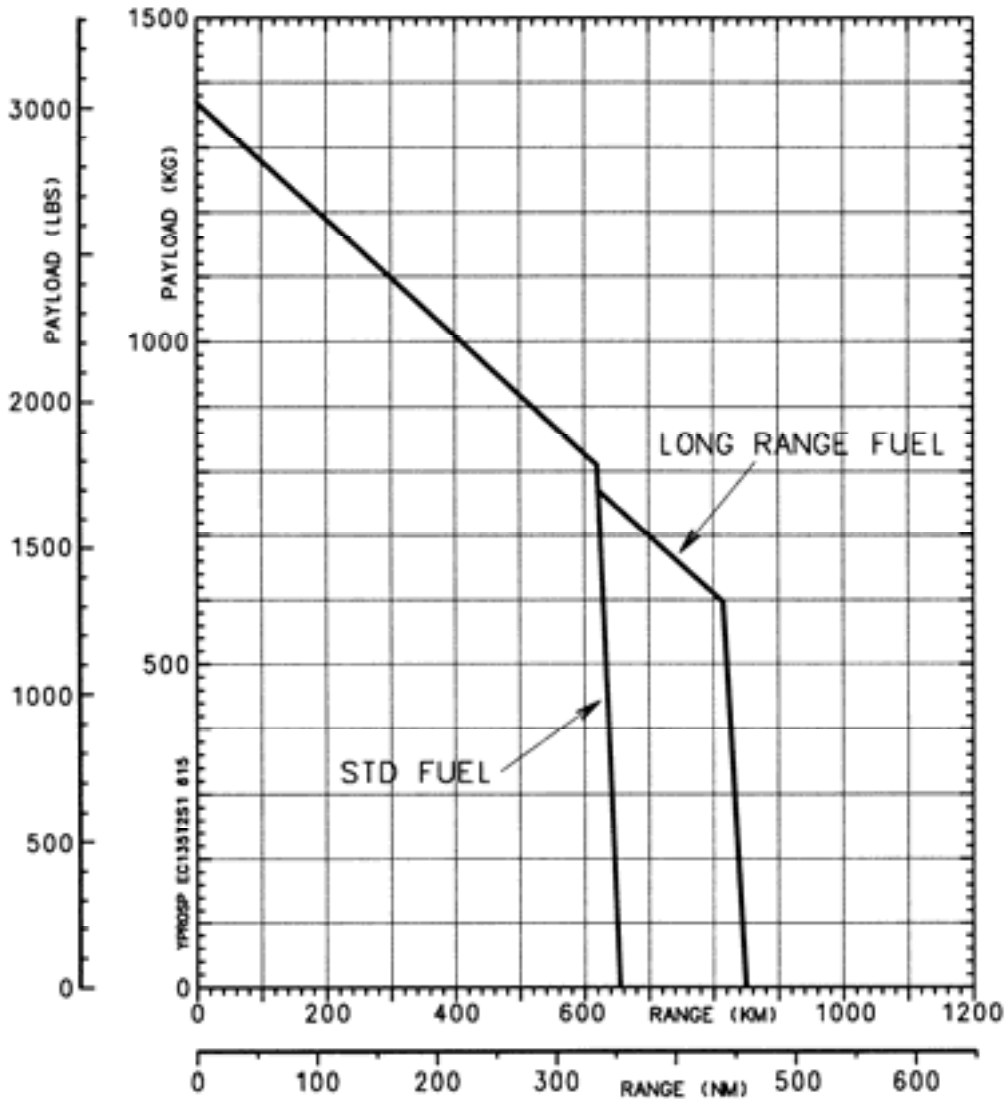
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Payload / Range

with two ARRIUS 2B2 engines

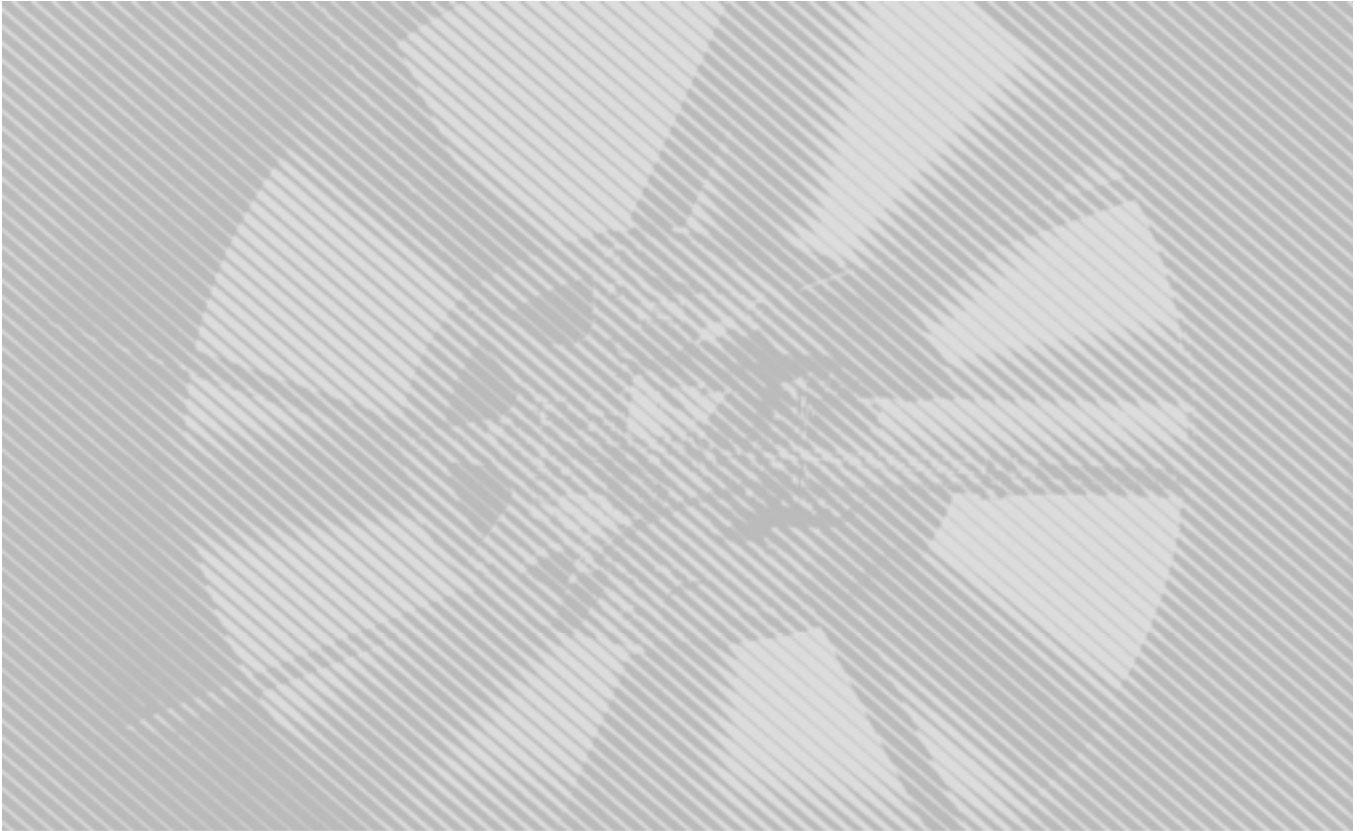
TOW	2910KG
NO RESERVE	
SL / ISA	

EMPTY WEIGHT	1460KG/1503KG
USABLE STD FUEL	560KG
LONG RANGE FUEL TANK	170KG
PILOT	80KG



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