

►1135
Technical Data
2016







H135 (Civil Version)



H135M (Military Version)







3 **Baseline Aircraft Definition**

GENERAL

- · Energy absorbing fuselage
- · Tail boom with fixed horizontal stabilizer
- Vertical fin with faired-in Fenestron[®]
- · Upper deck with fittings for main gearbox, engines, hydraulic and cooling system
- · Cowlings for main transmission and engine
- 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
- · 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 Multifunction Display (VEMD) with indication of:
 - Torque
 - Engine parameters N1-RPM (for P&WC) or ΔN-1RPM (for TM), oil pressure, oil temperature, Turbine Outlet Temperature (TOT), engine / FADEC rep EEC failure and parameter code messages, self diagnoses
 - First Limit Indicator (FLI) for TQ, TOT, N1 (for P&WC) or ΔN1 (for TM) as analogue display
 - Main transmission parameters (oil pressure, oil temperature)
 - · Dual ammeter (generator)
 - · Ammeter (battery)
 - Dual voltmeter
 - Outside Air Temperature (OAT)
 - Automatic in flight power check
 - · Parameters of optional equipment (e.g. internal long range fuel tank)

- · Clock (2 in)
- Magnetic compass
- Engine cycle counter (on flight report page)
- Triple (rotor and engines) RPM-indicator (2 in)
- Standard instruments: (single pilot)^a
 - Airspeed indicator (3 in)
 - Encoding altimeter (3 in) Vertical speed indicator (3 in)

- · Engine fire warning with fuel emergency shut-off
- · Warning lights
- Aural warning
- · Main switch panel:
 - · DC power control
 - Full Authority Digital Engine Control (FADEC)
- · Pitot static system with electrical heated pitot tube, pilot
- · Static pressure crossover system
- · Air Data Computer (ADC)
- a. If glass cockpit instrumentation is chosen as optional equipment, these standard instruments are deleted (function included in MEGHAS) and an altimeter (2 in) and an airspeed indicator (2 in) as back-up instruments are added.

POWER PLANT

- Two Pratt & Whitney PW206B3 turbine engines or Two Turbomeca ARRIUS 2B2^{plus} turbine engines These two engines are equipped with:
 - · Fire detectors
 - Full Authority Digital Engine Control (FADEC)
 - · 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) with improved dynamic characteristics, 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

- Two starter / generators (2x160 A, 28 VDC)
- Nickel-Cadmium battery, (24 V, 17 Ah)
- External power connector (STANAG 3302, LN9064, SAE AS 25018, SAE AS 35061)
- · Power distribution system:
 - Two primary busbars
 - · Two shedding busbars
 - Two endeding buebars
 - 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 (28 VDC, 10 A)
- Lighting:
 - · Anti-collision warning light (red flashing), LED
 - Fixed, nose-mounted landing light (250 W)
- Three position lights (red, green, white), LED
- 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^a

- · Two ground-handling wheels
- · Basic aircraft covers (short term)
- 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
- a. Weight not included in the standard helicopter empty weight.

DOCUMENTATION (in English)

- One Flight Manual^{ab} (on paper)
- · One Pilots Checklist^c (on paper)
- One Master Minimum Equipment List (MMEL)^a (on paper)
- One Logbook (on paper, CD-ROM on demand)
- One Historical Record (on paper, CD-ROM on demand)
- Technical Documentation^{ad} incl. AMM, SDS, WDM, IPC, MSM, CECG, SRM online via KEYCOPTER[®] portal
- Service Bulletin Catalogue (SB) online via T.I.P.I
- List of Applicable Publications (LOAP)^a online via KEYCOPTER[®] portal
- One Avionics Manual^e (for avionics installed by Airbus Helicopters) (on CD-ROM)
- One ECMM^c (Electronic Component Maintenance Manuals) for vendor manuals
- One Engine Documentation^f (format depends on engine manufacturer), furnished by supplier, including:
 - · Maintenance Manual
 - Illustrated Parts Catalogue
- a. Revision service included as long as the aircraft is operational
- b. One Flight Manual included in the standard helicopter empty weight
- c. Revision service for 3 years
- d. Customized AMM, SDS, WDM and IPC versions available on request
- e. Customized documentation
- f. Revision service for 5 years for TM, 2 years for PWC

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