

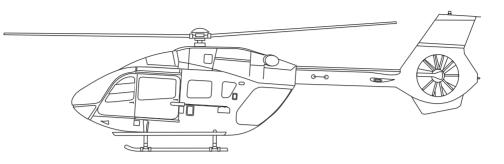
H145M Technical Data 2016







H145 (Civil Version)



H145M (Military Version)







3 Baseline Aircraft Definition

GENERAL

- Energy absorbing fuselage
- \bullet Tail boom with fixed horizontal stabilizer and vertical fin with faired-in Fenestron®
- Upper deck with fittings for main gearbox, engines, hydraulic and cooling system
- Cowlings for main transmission and engines
- Multi-purpose pylon, LH and RH, fixed provisions

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 with window of pushout type
- 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; seat color grey or blue
- Cabin & cockpit boarding grips (LH and RH)
- Interior paneling
- Flight controls (pilot side)
- Instrument panel with extension on pilot's side and glare shield
- a. If required by final configuration

BASIC INSTRUMENTATION

- Flight Display Subsystem (FDS) composed of 2 smart multifunction displays (6 x 8 inch) providing the following functions:
 - Flight Navigation Display (FND) format
 - Vehicle Monitoring Display (VMD) format
- Vehicle Management Subsystem (VMS) including:
 2 duplex Aircraft Management Computer (AMC)
- Reference sensors:
 - 3 Attitude and Heading Reference Systems (AHRS)
 - 2 Air Data sensors (electrically heated pitot tube and static port)
 - 2 Three Axis Magnetometers (TAM)
- Stand-by instruments:
 - Integrated Electronic Standby Instrument (IESI)
- Stand-by compass

POWER PLANT

- Two TURBOMECA ARRIEL 2E turbine engines with electronic engine control (double channel FADEC)
- Crash resistant fuel system with a flexible bladder-type fuel main tank and supply tank (split into two sections)
- Two independent oil cooling and lubrication systems of the engines
- Fire detection and extinguishing system

- Skid-type landing gear with skid protectors, capable of taking ground-handling wheels
- Long boarding steps, LH and RH
- Cold weather kit
- · Built-in maintenance steps and grips
- Exterior painting (single color)
- Ram-air and electrical ventilating system for cockpit and cabin
- Bleed air heating system
- Ventilation for avionics deck^a
- Headset holder in the cockpit, rotatable
- Portable fire extinguisher
- · Stowage net for first aid kit at the LH rear clam-shell door
- 2 flashlights (torches)
- Slant panel
- Center console
- Windscreen wiper for pilot and copilot
- Door open warning
- Usage Monitoring System (UMS)
- "One hundred feet" alert
- Directional Gyro Free Steering Mode
- Warning unit:
 Engine fire warning with fuel emergency shut-off
 - Warning lightsFire extinguishing system warning
- Cockpit Control Panel (CCP) for FDS
- Data Transfer Device (DTD)
- Engine switch panel:
 - Digital engine control (FADEC)
- Radar altimeter
- Chip detectors with quick-disconnect plugs
- Twin-engine OEI-training mode
- · Automatically controlled variable rotor speed system
- Cycle counter
- Drain system
- Fire walls





TRANSMISSION SYSTEM

- Main transmission including an independent redundant lubrication system and monitoring sensors
- · Chip detector system with quick-disconnect plug (main transmission)
- · Free wheel assemblies in the engine input drives

ROTOR AND FLIGHT CONTROLS

- Hingeless main rotor (System Bölkow) with 4 glass and carbon fiber reinforced blades with erosion protection strip
- Fenestron®-type tail rotor with ten composite blades (asymmetric blade spacing) and stator
- Tail rotor gearbox cover
- · Basic provisions for an easy integration of a balancing svstem

- Rotor brake system
- Tail rotor transmission system with splash lubrication and oil level sight gauge
- Chip detector system with quick-disconnect plug (tail rotor gearbox)
- Dual hydraulic boost system for cyclic and collective blade control of the main rotor
- · Tail rotor control system with flexball cable and dual hydraulic booster
- Main rotor blade tip painting (yellow)
- · Mast moment system

• DC power control

Fixed landing light, LED

Boarding illumination

· Two radio master switches

Emergency lights

 Adjustable instrument lighting · One utility light in the cockpit, LED

Lighting:

Dual Duplex 4-axis Digital Automatic Flight Control System including upper modes

· Anti-collision warning light (red flashing), LED

• Three position lights (red, green, white), LED

· Lights in the cabin and cargo compartment

- **ELECTRICAL INSTALLATION**
- Power generation system:
 - Two starter/generators (2 x 200 A, 28 VDC)
 - Nickel-Cadmium battery, (24 VDC, 40 Ah)
 - External power connector (STANAG 3302)
- Power distribution system:
 - Two main busbars
 - Two essential busbars
 - Two shedding busbars
 - Two non-essential busbars (80 A) for optional
 - equipment only
 - Battery bus
 - One utility receptacle in cargo compartment (28VDC, 20A)

GROUND HANDLING KIT^a

- · Two ground-handling wheels
- · Basic aircraft covers (short term incl. Main Rotor Blade tie
- down)
- Oil drain hoses
- · Keys for cockpit, cabin, clam-shell doors and tank flap (one-key system)
- a. Weight not included in the standard helicopter empty weight

DOCUMENTATION (in English)

- One Flight Manual^{a b} (on paper)
- One Pilots Checklist^c (on paper)
- One Master Minimum Equipment List (MMEL)^a online via T.I.P.I.
- 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.
- One List of Applicable Publications $(\text{LOAP})^a$ online via $\text{KEYCOPTER}^{\textcircled{B}}$ 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 (USB stick, paper on demand), furnished by supplier, including: Maintenance Manual
 - Illustrated Parts Catalogue (IPC)
- 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
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· Battery key Lifting points

Radio:

- Compass compensation key
- · Fuel drain device



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