H145M The New Battlefield Support Helicopter
Designed for Demanding Operations
HELICOPTERS
H145

From a civil market leader to a military best-seller

H145M
H145M | A versatile multi-purpose helicopter

- **Cruise speed, MTOW**
  240 km/h / 130 kts

- **Maximum range**
  638 km / 345 NM

- **Endurance**
  3:32 hrs

- **HOGE, MTOW, ISA+20**
  2,332 m / 7,650 ft
H145M | Main Features

Brings agility and flexibility on the battlefield

- 2x ARRIEL 2E Engines
- MTOW: 3,700 kg / 8,157 lb
- AGW: 3,800 kg
- Useful Load @ MTOW:
  1,769 kg / 3,900 lb
- Max cargo sling / swing load:
  1,600 kg / 3,527 lb
- External temperature envelope: -45°C to ISA+35°C (limited to +50°C)
- Operational ceiling HIGE, T-O & L
  20,000 ft Pressure Altitude (PA) or Density Altitude (DA) whichever is less
H145M Proven in service

Successful entry into service

- **EASA certification:**
  - May 2015
- **1st delivery:**
  - Dec. 2015
- **H/C in operation:**
  - 24
- **Total Fleet FH:**
  - >10,000
- **> 95% availability**
**H145M** Contract performance

German LUH SOF & Royal Thai Navy created perfect basis in demanding environment for **H145M** future business

51x **H145M** ordered

- **15x German** Special Forces
  Special OPS, Air Assault, Utility

- **5x Royal Thai Navy**
  Navy Seal OPS, Air Assault, Utility

- **6x Serbian Air Force**
  Light Attack (HForce), SAR

- **3x Serbian Police**
  Special OPS, Utility

- **20x Hungary Air Force**
  Light Attack (HForce), Special OPS

- **2x Luxemburg**
  Special OPS, Utility
H145M | Cockpit

- **Ergonomic glass cockpit**
- **Latest generation Helionix®**

Excellent field of view
A cost-effective solution to weaponize Airbus Helicopters’ commercial platforms
H145M

HForce

Incremental & Modular

**Option 0** ➔ HForce ready

**Option 1** ➔ Armed reconnaissance

- Pilot
- Gunner
- HMP400 12.7mm Gun Pod
- NC621 20mm Cannon Pod
- FZ231 70mm Rocket Launcher

**Option 2** ➔ Ballistic light attack

- Option 1
- Pilot
- Gunner
- FZ275 Laser Guided Rocket

**Option 3** ➔ Ballistic & guided light attack

- Option 2
- Air to Ground Missile (on request)
- Air to Air Missile (growth potential)
- FZ275 Laser Guided Rocket
H145M Self Protection System (SPS)

- Missile Approach Warner
- Set of 4 dispensers for a better self-protection capability
Future Projects

- Self Protection System EWS with Radar Warning Receiver (RWR)
- Engine Infrared Suppressor (IRS)
- In-flight rapid obscuration system
- Expedient Repair/ A/C Battle Damage Repair
**H145M**

**Mobility**

Tactical Deployment

Airlift procedures approved:

- **AN-124**
  - up to 6x **H145M**

- **A400M**:
  - 1x **H145M**

- **C-17 “Globemaster” III**
  - up to 4x **H145M**

“Mission Ready”
30 min from unloading
H145M | Ready for the future

On-Going Developments
H145M
5-bladed Main Rotor System

Entry into Service:
- H145 Q2 2020
- H145M Q2 2021

Retrofit:
- Duration: 220h / 15 days

Building on the H145 family proven reliability, while improving performance & economics

+150 Kg Useful load
Best direct maintenance costs in its class

+100 Kg MTOW

New Helionix functions/ growth
Unique AFCS functions Piloting and Nav mission enhancement

Lowest vibration levels Hingeless main rotor blade system
1 - MUM-T

- Mike Phase I
  Lol 5 demonstration (STANAG 4586).
  Control & monitoring of the UAV, incl. launch & recovery.

- Mike Phase II
  Addressing findings (Crew Workload & DataLink)
  of Phase I Build up of full ground testing development environment
  Culminating in next flight testing (Lol 4).

2 - Net centric Warfare / Integration into Command & Control System / Battlefield MGMT System (BMS):

- Integrating H145M in a command and control structure
  Multiple flight testing campaigns

“The best way to predict the future is to create it.”
Abraham Lincoln
H145M Mission System → Agnostic Architecture

Agnostic with respect to multitude of state of the art and future mission equipment forming the foundation for the next development steps in capability improvement

Data links

Line of sight and non-line of sight – in contested environment

Sensor to Shooter

Linking H145M with its Mission Management System in System of System (SoS) approach and engaging target beyond line of sight in a fully digital battlefield
H145M Simple, off-the-shelf, reliable rapidly deployable with an optimised footprint
Thank you