



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

AIRBUS

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**

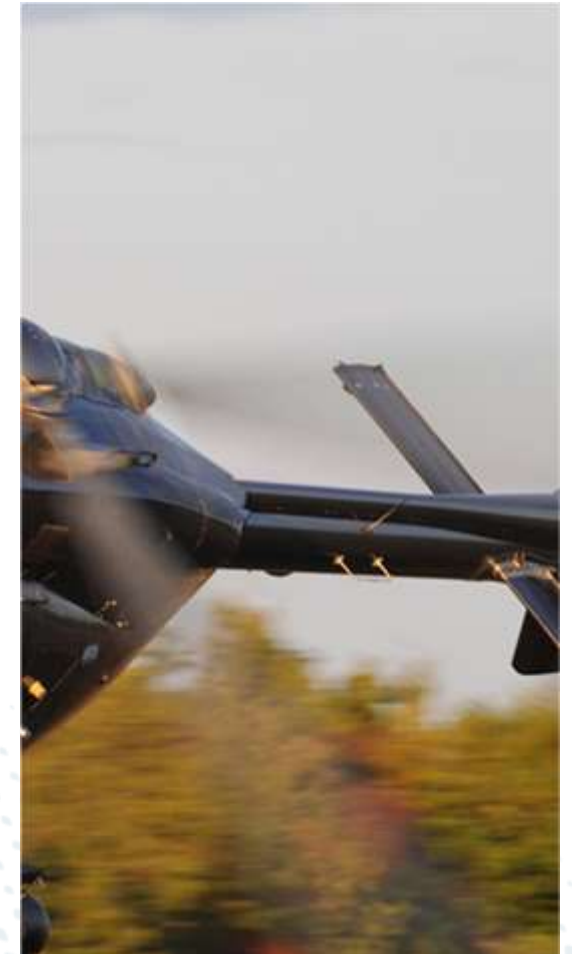
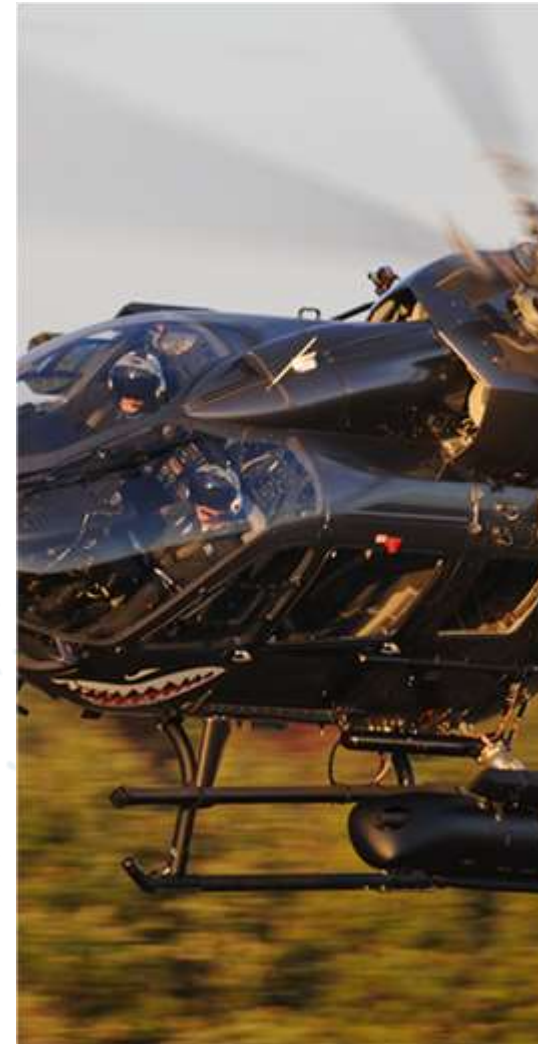
638 km / 345 NM

→ **Endurance**

3:32 hrs

→ **HOGE, MTOW, ISA+20**

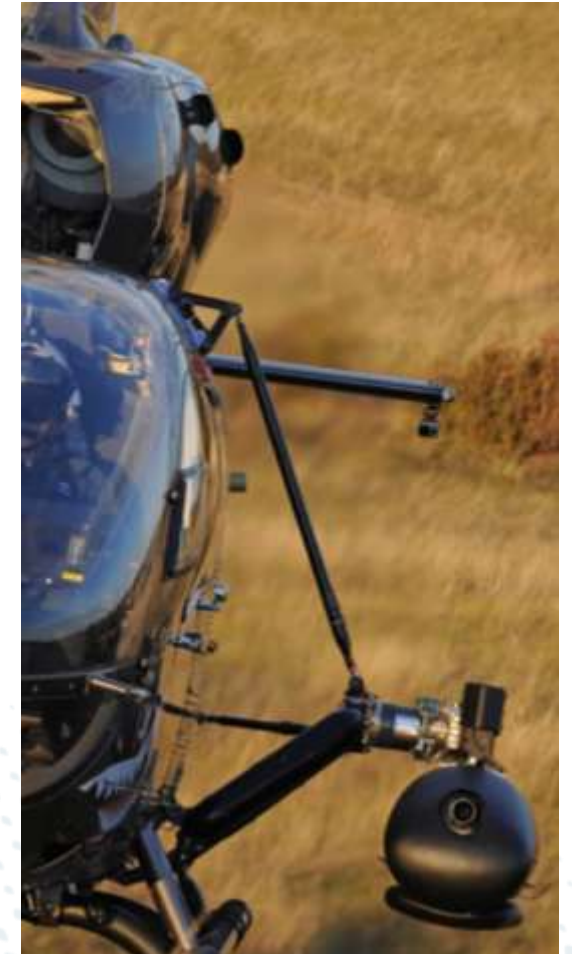
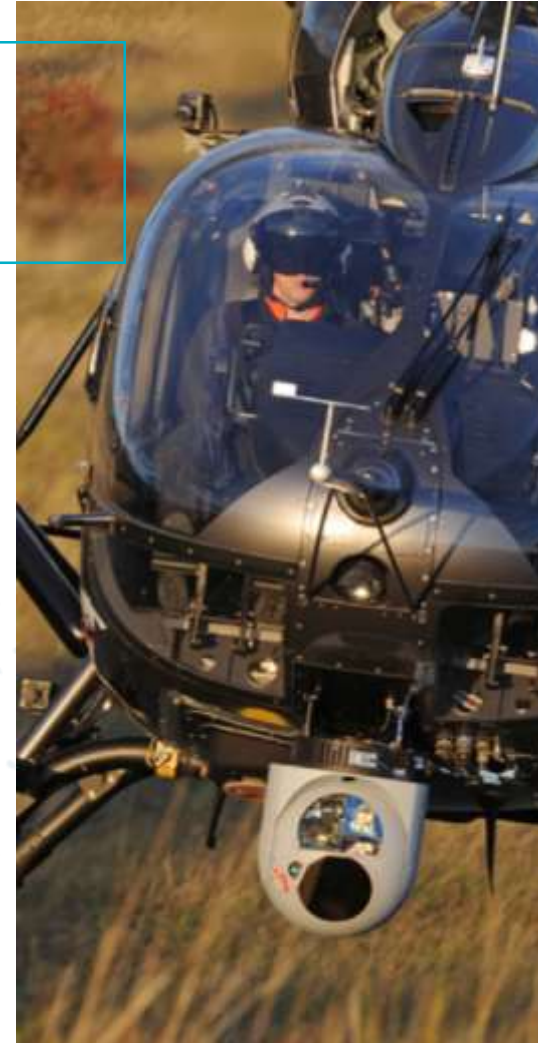
2,332 m / 7,650 ft



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°**
(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

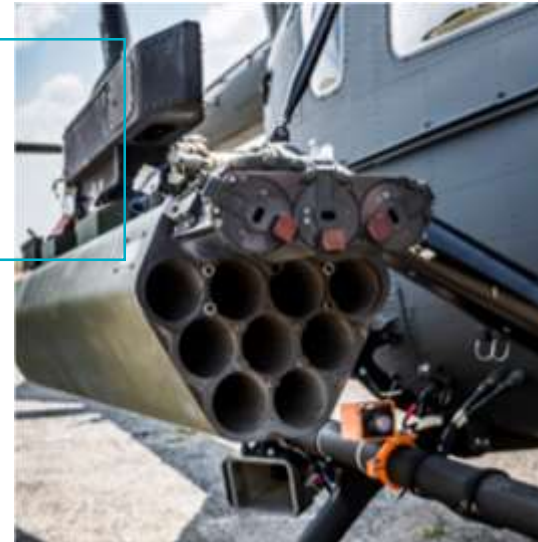
Excellent field of view

- Ergonomic glass cockpit
- Latest generation Helionix®



H145M | HForce

A cost-effective solution to weaponize Airbus Helicopters' commercial platforms



Option 0 → HForce ready

Option 1 → Armed reconnaissance



Pilot

Gunner



HMP400 12,7mm Gun Pod



NC621 20mm Cannon Pod



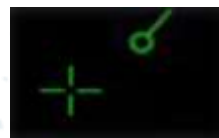
FZ231 70mm Rocket Launcher

Option 2 → Ballistic light attack



Pilot

Gunner



Option 3 → Ballistic & guided light attack



Air to Ground Missile (on request)



Air to Air Missile (growth potential)



FZ275 Laser Guided Rocket

H145M

Self Protection System (SPS)

Integrated 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	+100 Kg CAT A

→ 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.

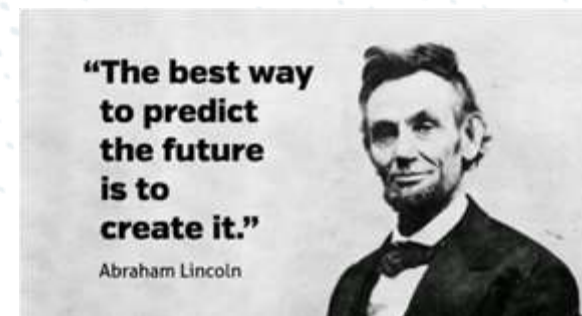
→ Mike Phase II

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



H145M | Connectivity Next Steps



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