

H145

New Upgrade





AIRBUS


H145 / H145M / EC145 / BK117





 1 532
Built helicopters

 1 343
In-service helicopters

 273
Operators

 58
Operating countries

 365 900
Flight hours (in 2018)

 5 338 100
Flight hours (End 2018)

H145 Fleet data status



236

delivered aircraft



69

operators



32

operating countries



> 149 600

flight hours

AIRBUS

H145 ID Card

1 pilot + 9/11 PAX or 2 pilots + 8/10 PAX

- Empty weight: 1,895 kg / 4,178 lb
- Useful load: 1,905 kg / 4,200 lb
- MTOW: 3,800 kg / 8,378 lb
- Single hook operation: 1,600 kg / 3,527 lb
- Fast cruise speed MTOW, SL 238 km/h / 130 kts
- Max. Range, MTOW @ VBR (std) 647 km / 349 NM
- Max. Range, MTOW @ VBR (LRFT) 811 km / 438 NM
- Endurance Std / std + LR Fuel Tank 3:31 hrs / 4:26 hrs
- HOGE at MTOW, ISA+20: 1,524 m / 5,000 ft
- Cat. A, VTOL, ISA+20, SL 3,660kg / 8,069 lb (*)

(*): preliminary data

H145 D3 Latest improvements



New H145 customer benefits

Enhanced Performances

Best useful load *in its class*

+150 kg vs H145 D2

MTOW : +100 kg

Cat. A : +100 kg

**Landing in confined areas
capacity improved:**

D-value - 10 cm vs H145 D2

Economics

Best value for money *in its class*

+2% acquisition price vs H145 D2

Best DOC

-30% vs AW169

Best DMC *in its class*

*New main rotor reduces
maintenance and increases
availability rate (already > 95%).*

Comfort in ride

Lowest vibrations level *in its class* setting a new standard

Avionics

**Technology meets
simplicity: new HELIONIX
version with wACS**

*The unique and secured wireless
airborne communication server
linked to Helionix, enables easy
data collection for further
analysis.*

Retrofit

Price : On request, Availability: Q1 2021

Retrofit duration : 220 h / 15 days

Civil : Q2 2020

Military : Q2 2021

New H145

capitalize on H145 family proven **reliability** while **improving** its **performances** and **economics**

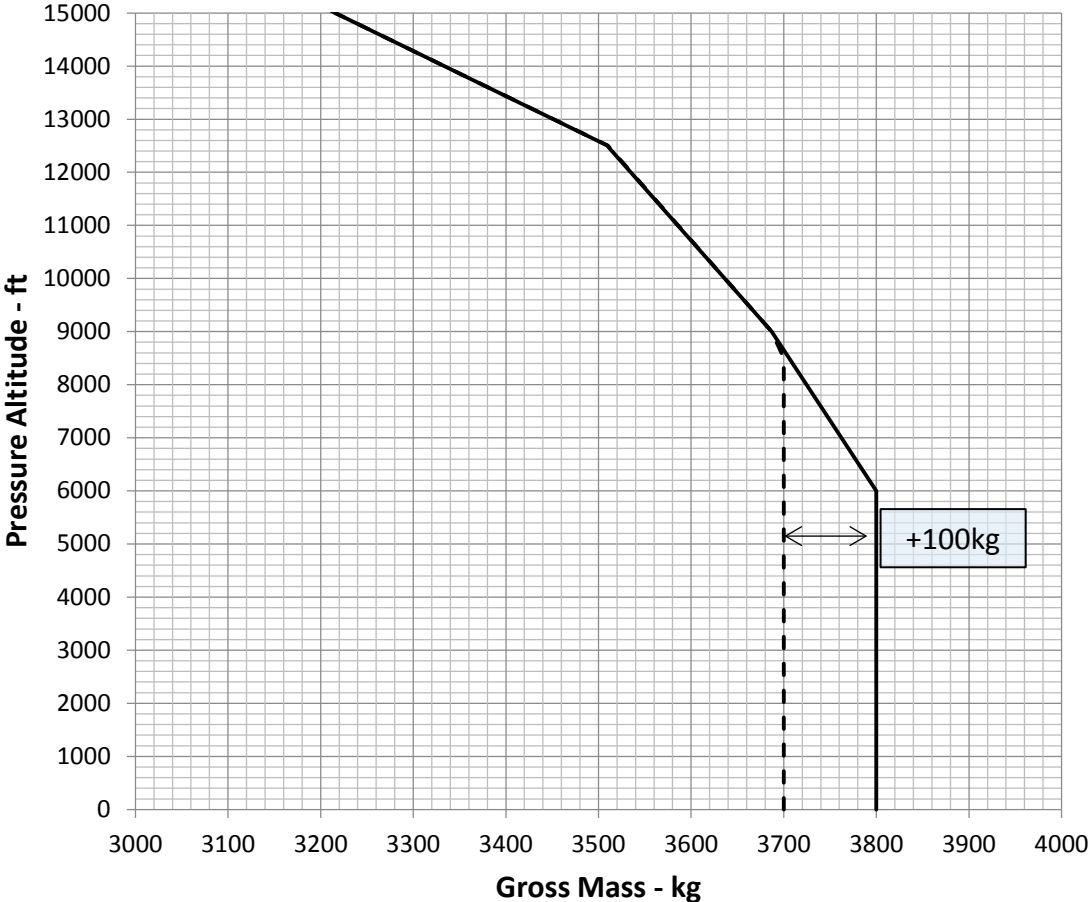
5 blades available as a retrofit

AIRBUS

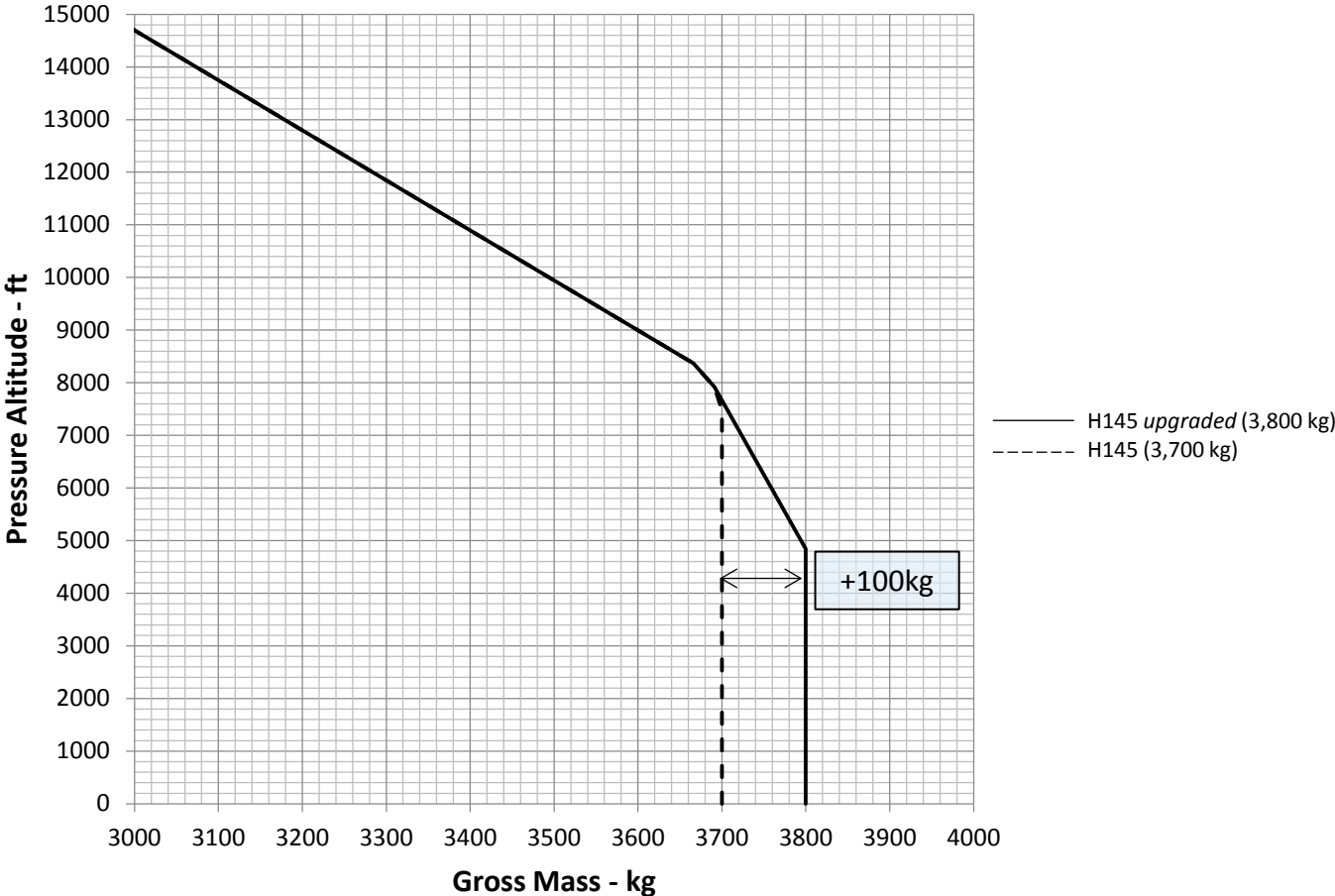
Performance comparisons between H145 D2 & D3



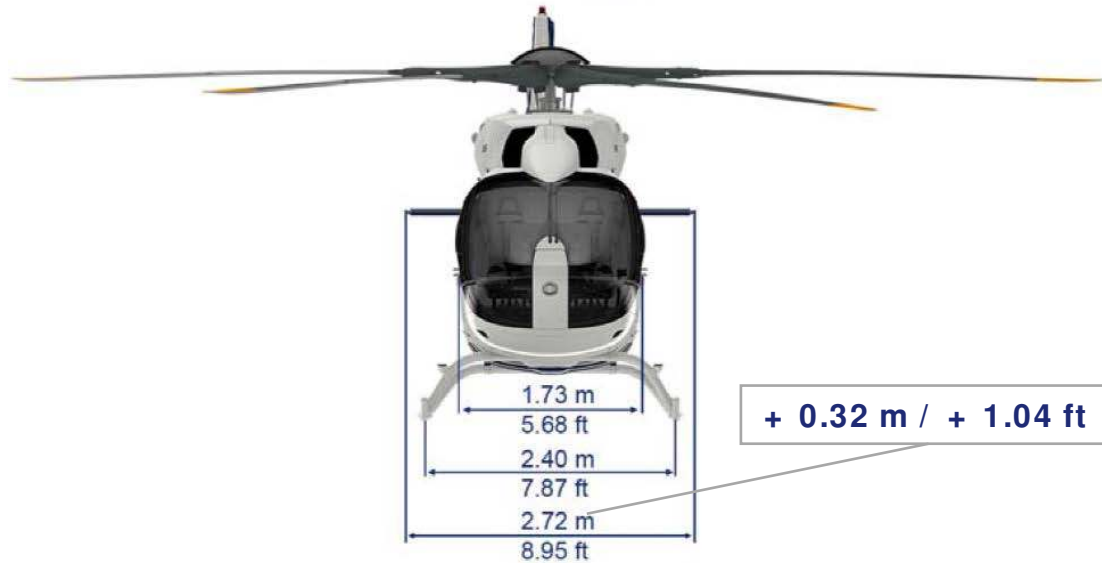
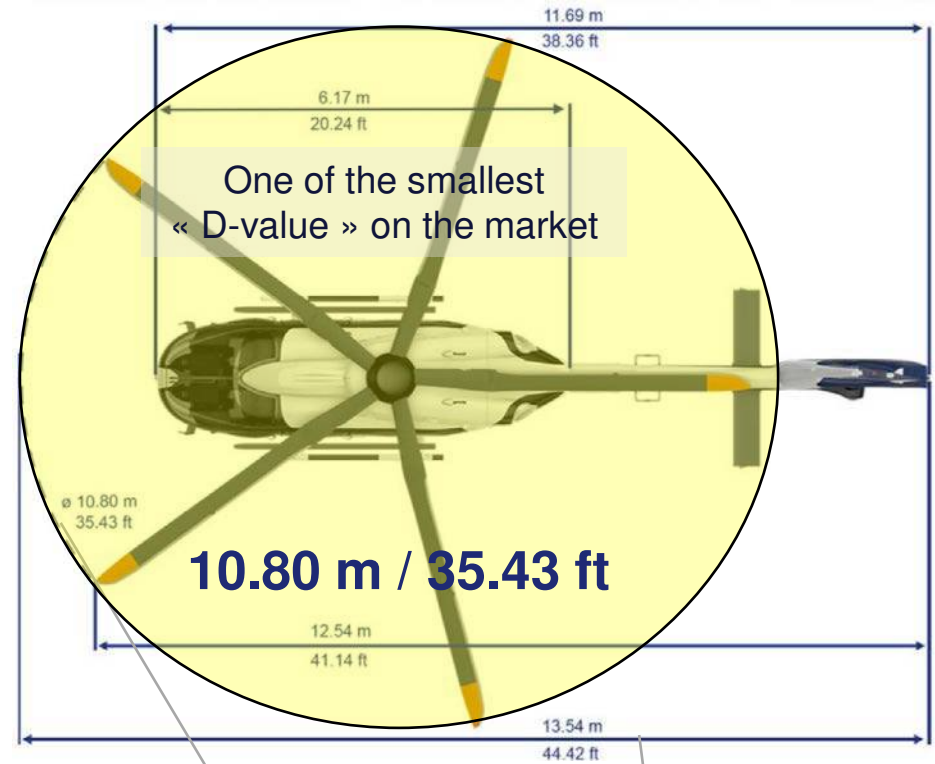
HOGE AEO-TOP, ISA



HOGE AEO-TOP, ISA+20



H145 New external dimensions

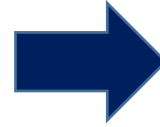


H145 New bearingless & hingeless 5 blade main rotor

H145

FROM

4-bladed Bölkow Main Rotor



TO

5-bladed GRC 1+ Main Rotor

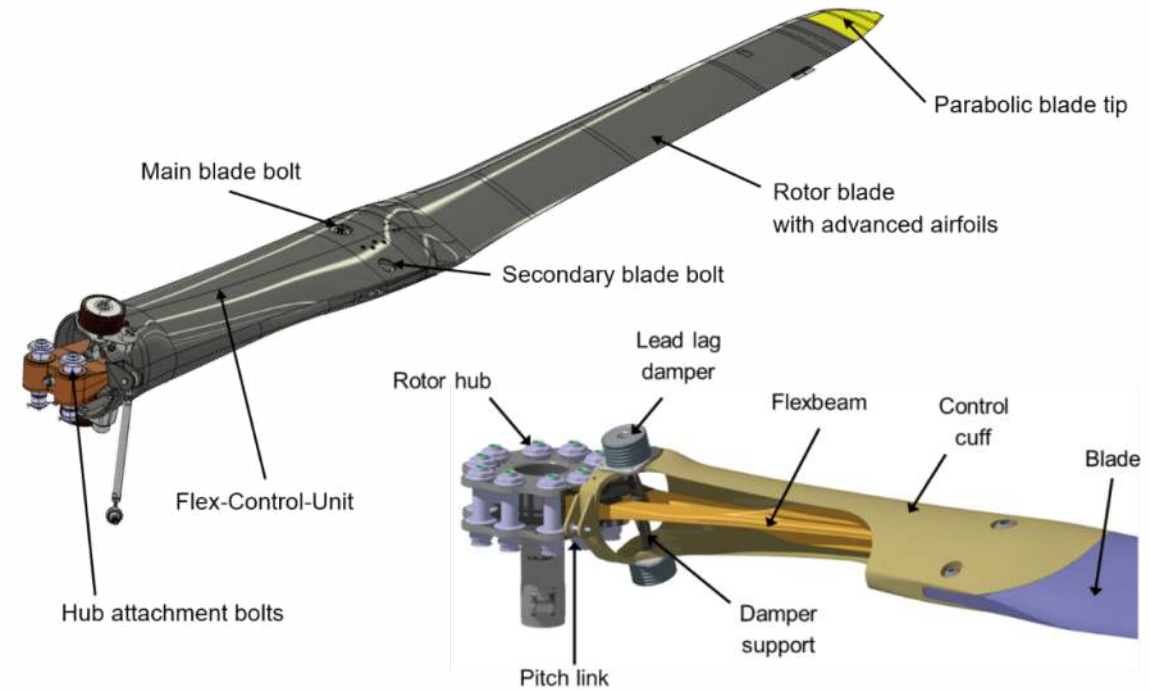
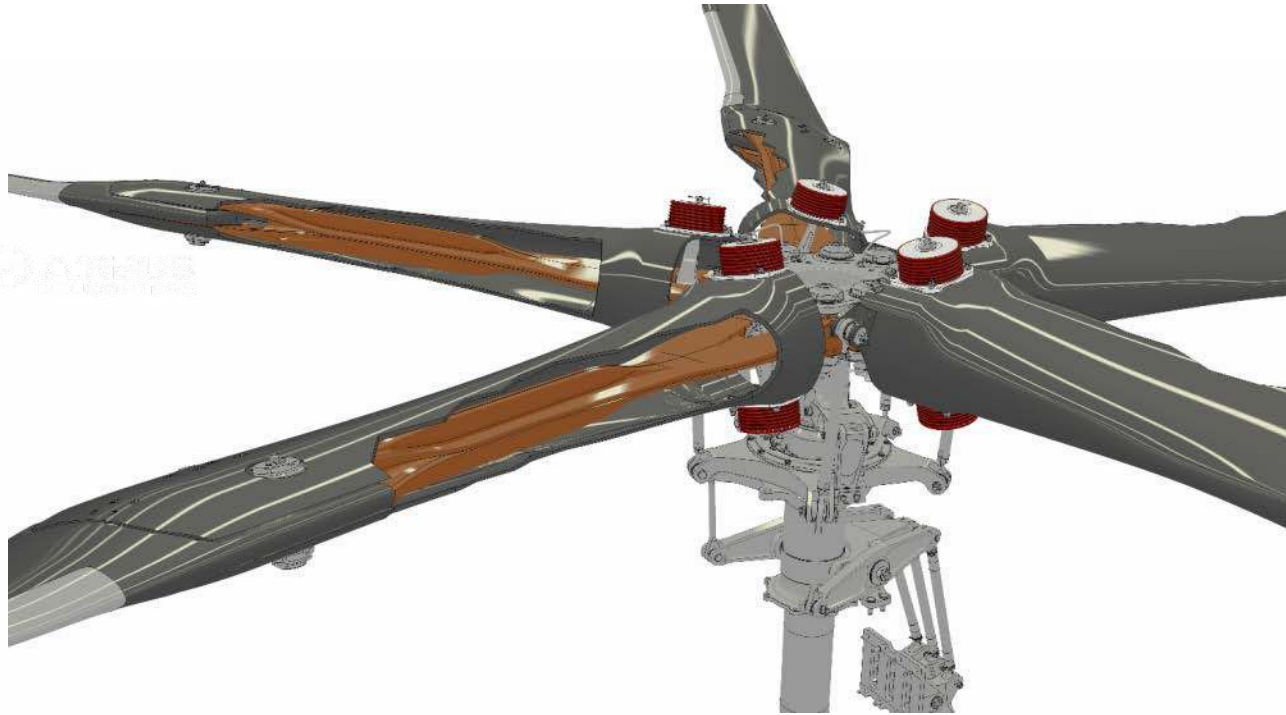


- Hingeless main rotor design with Titanium main rotor head
- Oil filled main rotor head with bearings
- Full composite main rotor blades

- Bearingless and hingeless main rotor design with simplified main rotor head (derived from H135 design)
- No oil, no grease point
- Full composite flexbeam + main rotor blades

H145 New bearingless & hingeless 5 blade main rotor

H145



 REDUCED MAIN ROTOR WEIGHT

 INTERCHANGEABLE BLADES

 "ON CONDITION" ITEM

 REDUCED HINGE OFFSET OFFERING IMPROVED RIDE COMFORT

 FULL REARWARDS MANUALLY BLADE FOLDING (OPTION)

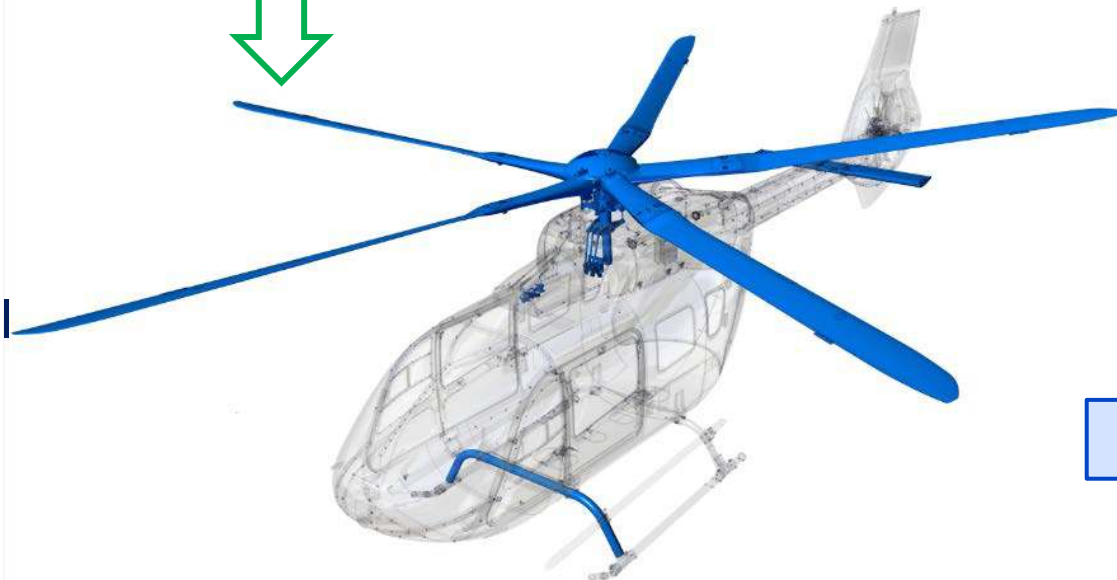
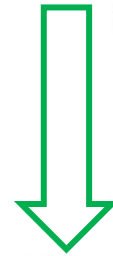
H145 Upgrade and retrofit content

H145

1. Rotor Blades
2. “Transmission kit”:
 - Rotor mast, swashplate, scissors, control rods and their assy with oil cooler and rotor brake
3. Additional electrical hydraulic pump
4. New forward cross-tube
5. New horizontal stabilizer
 - Retrofit only: use existing horizontal stabilizer and weight kit
6. Helionix (AFCS) software



Removed

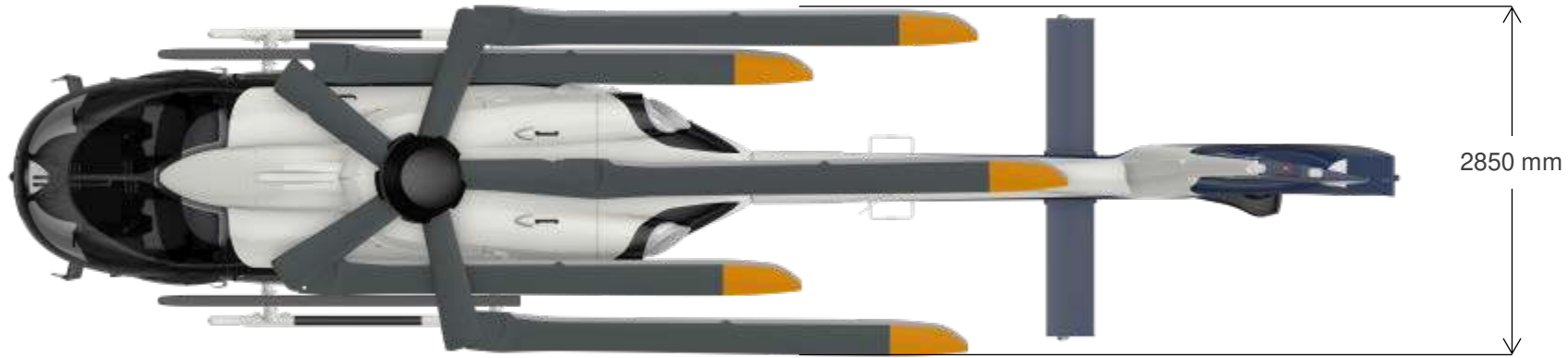


Added

The H145 retrofit has a limited content requiring only ~220 work hours / 3 weeks

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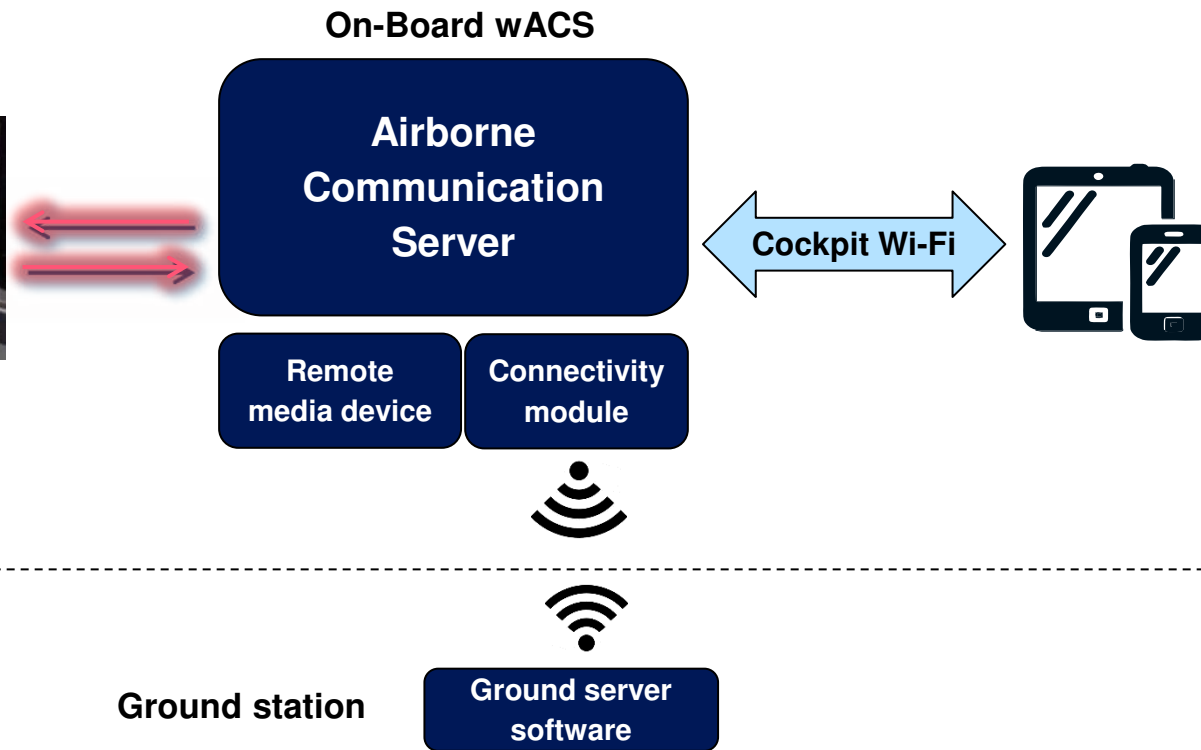
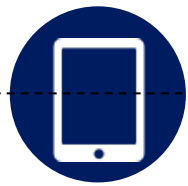
H145 Full rearwards main rotor blade folding (new option)



H145 Wireless Airborne Communication Server (wACS) - Functions

- ✓ Wi-Fi or cellular export of flight data to ground server
- ✓ Wi-Fi export of flight data and e-tech logbook to tablet
- ✓ Wi-Fi import of mission databases from tablet
- ✓ Wi-Fi import of navigation databases from tablet
- ✓ Tablet feeding of avionics parameters

Helionix ® - Most modern avionics



H145

Always connected

Reducing Pilot
Workload &
Increasing
Situational
Awareness

AIRBUS

H145 - Aircraft Performance

H145

* Figures at 5,000 ft	H145 8,157 lb	H145 8,377 lb
Fast cruise speed (VH) @ TAS*	134 kts	132 kts
Maximum range (<i>standard fuel tanks</i>)*	392 NM	388 NM
Maximum range (<i>Long range fuel tanks</i>)*	492 NM	487 NM
Maximum endurance at best endurance* speed (=70 KTAS) (<i>standard fuel tanks</i>)	3 hours 54 min	3 hours 50 min
HOGE (<i>TOP –MTOW –ISA</i>)	8,750 ft	6,200 ft
HOGE (<i>TOP –MTOW –ISA +20°C</i>)	7,650 ft	5,000 ft
HOGE (<i>OEI –30 sec power SL –ISA +20°C</i>)	7,385 lb	7,385 lb
HOGE (<i>OEI –2 min power –SL –ISA +20°C</i>)	7,187 lb	7,187 lb
Cat. A (<i>–VTOL –SL –ISA</i>)	8,179 lb	8,179 lb
Cat-. A (<i>–VTOL –SL –ISA + 20°C</i>)	8,069 lb	8,069 lb
min./max. operating temperature	-45°C up to ISA +35°C	-45°C up to ISA +35°C
Service ceiling (<i>–AEO –MCP</i>) at MTOW	16,500 ft	15,600 ft
Max operating altitude for hover, takeoff and landing	20,000 ft	20,000 ft



Thank you for your interest and attention!