

HELICOPTERS

Search and Rescue

AIRBUS



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SEARCH AND RESCUE

Be prepared for the unexpected...

...as there is always the need to rescue anyone, at anytime, anywhere.

In times of uncertainty with lives at risk, helicopters allows to **search** for the precise location of people in distress or imminent danger, **rescue** and transport them to a place of safety.





Helicopters provide an **added value** to the successful completion of missions

- **3 to 5 times faster** reactivity in locating and reaching victims compared to road units
- Providing **access to hostile environments and locations otherwise inaccessible** by any other means of transport
 - > Which improve significantly the survival rate
- Improving time and resource efficiency by **combining the search and rescue** functionalities
- With better global assessment of the situation **to identify any particular or possible additional dangers** that could affect the mission (e.g. obstacles)

MISSION EFFICIENCY

MAIN MISSIONS

Helicopters are **performing Search And Rescue missions in various areas** : maritime, coastal and in land

These missions are operated **all year round, 24/7, day & night**. Therefore, helicopters have to be ready at anytime.

Several different actors are involved in Search And Rescue, **depending on the country and specific areas**:

- Armed forces, ministries, police
- Counties / regions
- Private under contract operators

Environments in which helicopters are operating



Hostile Environment

(island, jungle, mountain, forest,...)



Urban Area / Traffic



Rough Sea

(high winds, storms, strong current, big waves,...)



Night time / poor visibility

MAIN EQUIPMENT



SEARCH LIGHT



SEARCH AND WEATHER RADAR



HOIST



CARGO HOOK



E.O.S.
Electro Optical System

MAIN EQUIPMENT



STRETCHER



FLOATS & LIFE RAFT



SIREN



H.E.E.L.S.
Helicopter Emergency Egress
Lighting System



A.D.E.L.T.
Automatic Deployable Emergency
Locator Transmitter



TACTICAL RADIO SYSTEM

A HELICOPTER FOR EVERY MISSION

Data in baseline configuration

	H125 (with dual hydraulics)	H135	H145 (with dual hook)	H160	H175	H215	H225	NH90	VSR700
MTOW (internal)	2,370 kg 5,225 lb	2,980 kg 6,570 lb	3,800 kg 8,378 lb	6,050 kg 13,338 lb	7,800 kg 17,196 lb	8,600 kg 18,960 lb	11,160 kg 24,604 lb	11,000 kg 24,250 lb	MAUW 700 kg 1543 lb
External load	1,400 kg 3,086 lb	1,200 kg 2,646 lb	1,600 kg 3,527 lb	1,600 kg 3,527 lb	2,700 kg 5,952 lb	4,500 kg 9,920 lb	4,750 kg 10,472 lb	4,500 kg 9,920 lb	100 kg 220 lb
Seats (up-to)	1 + 5 2 + 4	1 + 7 2 + 6	1/2 + 8 1/2 + 10	1/2 + 12	2 + 18	1/2 + 17/20 1/2 + 19/22	1/2 + 19	1/2 + 20	/
Maximum range	620 km 335 NM	832 km* 449 NM*	812 km* 439 NM*	781 km 422 NM	1,120 km 626 NM	1,241 km* 670 NM*	1,107 km* 598 NM*	900+ km 485+ NM	/
Maximum endurance	4 h 20 min —	4 h 46 min* —	4 h 31 min* —	4 h 12 min —	6 h 09 min —	6 h 35 min* —	5 h 32 min* —	5 h 00 —	10 h 00 —

MTOW: Maximum Takeoff Weight
MAUW: Maximum All Up Weight

* With auxiliary fuel tank(s)

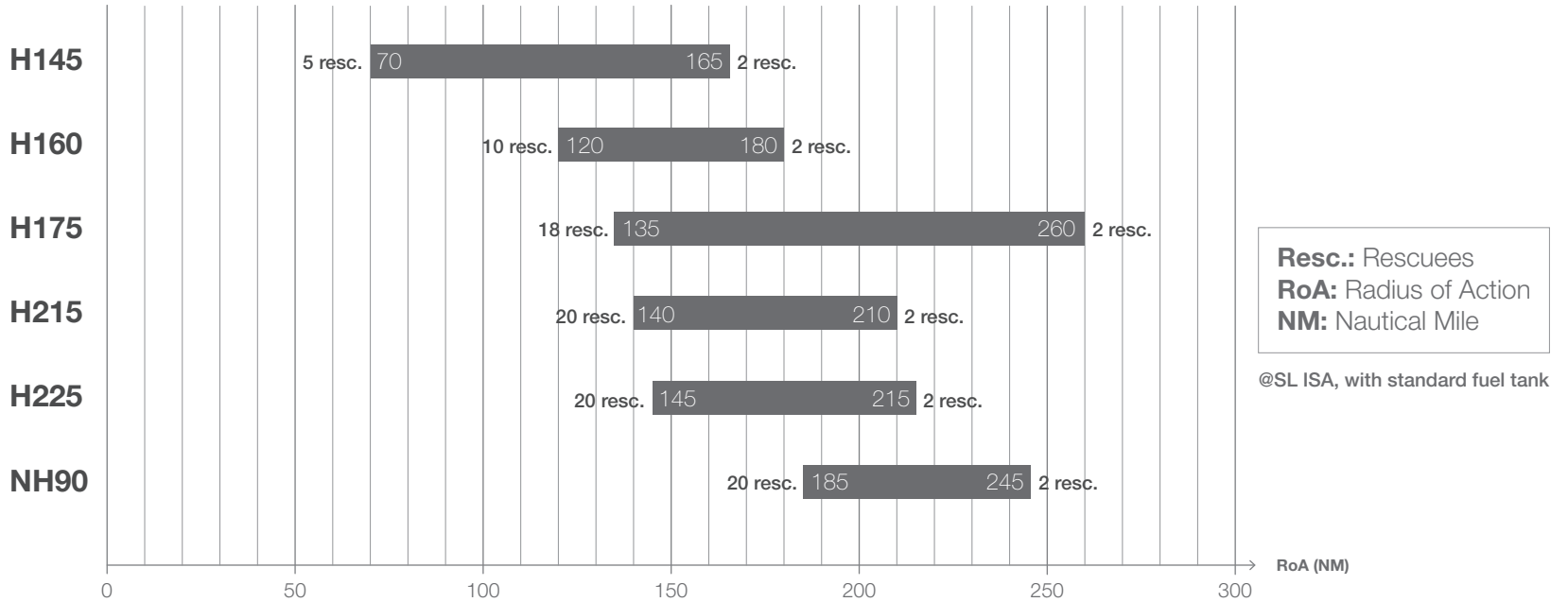
VALUE PROPOSAL

Different helicopter types to cover **all missions spectrum**

	H125	H135	H145	H160	H175	H215	H225	NH90
Basic day/night inland and mountain SAR	•	•	•	•	•	•	•	•
Basic day/night coastal and maritime SAR	•	•	•	•	•	•	•	•
24h long range specialized and versatile SAR				•	•	•	•	•
24h all weather extended range specialized SAR						•	•	•

AIRCRAFT RoA FOR MARITIME OPERATIONS

Airbus families are able to perform from short to long range maritime SAR missions



H125

THE PERFECT SWISS KNIFE

Supported by a strong experience

**Proven reliability with
4000+ H/C in service**

**Compact, flexible light
helicopter with the mission
capability of a larger aircraft**

**Exceptional performances
in harsh environments**

**Lowest acquisition
and running costs**





H135

THE LIFE SAVER

The best fit to perform mountain rescue in restricted areas

Proven platform, always ready:

- 1,473 H135 delivered,
- 6.6M FH,
- 316 operators,
- 65 countries*

Ability to operate safely in confined areas : lowest D-Value & downwash in its category

Helionix®: reduced pilot workload

360° approachability

Disaster management:
Easily installable/
removable (~15 min),
1 to 2 stretchers,
up to 3-4 seats and
1 medical rack

FH: Flight Hours

* Preliminary figures at end of December, 2022

H145

LIKE A GUARDIAN ANGEL

Compatible, versatile & capable

Ability to operate safely in confined areas: lowest downwash in its category, Fenestron®

Helionix®: Drastic reduction of pilot workload

95% availability

Competitive payload

**Disaster management:
Easily installable / removable
(~15 min), 1 to 2 foldable
stretchers, 2 up to 6 seats
to complement EMS kit**

High & hot performer

**Large and usable interior volume
for equipment and personnel**

**Wide side doors and rear clamshell
doors for loading/unloading**





H160

YOUR PARTNER TO SAVE LIFE

Focus on mission efficiency in critical environments

Designed for the crew and the maintainer

- Help them in their tasks

All missions ready, one fits all

- Versatility and availability

Safety enhancer

- Reduce workload with the latest generation of avionics and AFCS

6 rescues @150 NM – ISA+20°

H175

FIRST RESPONDER FOR SAR MISSIONS

Stay focused in the most demanding environment
Precision and stability – Faster and Further



Stay focused in the most demanding environment

- Due to the world's most advanced avionics suite: Helionix®

Precision & Stability

- Unique precision and stability:
 - 4-axis autopilot
- The large cabin is enhanced by very low vibrations levels and smooth ride – even at high speed

Faster, Further, Longer

- Fast start-up: in less than 5 minutes
- Be on scene faster @150 kts
- Rescue up to 270 nautical miles
- Best endurance above 5 hours



H215

A VALUABLE SAR ASSET

Unmatched mission efficiency
to save & protect

**Optimized crew workload
and situation awareness**

Unmatched mission efficiency

Long range & endurance

**Unrivalled autopilot precision
& SAR upper modes**

All-weather conditions

Large reconfigurable cabin

H225

THE WORLDWIDE REFERENCE FOR SAR MISSIONS

Selected & operated by over 20 countries

**Unrivalled SAR autopilot modes
& assistance**

Less crew fatigue

More comfort & recovery

Real time power margin displays

**Excellent payload lift and range
capabilities for highly demanding
SAR missions**



NH 90 TTH & NFH

EFFECTIVE, MODERN AND INNOVATIVE

Unique, fully integrated mission system for operations in the most demanding conditions over land and sea, day & night.



Advanced mission flight aid

Exceptional agility from Fly-by-Wire control + 4-axis autopilot

Automatic search patterns and transitions to & from headwind hovering in the whole flight envelope

Winchman trim mode with an authority of +/- 20 kts 360°

Modular and wide cabin for SAR, disaster relief

Reduced footprint (adapted to confined and urban environment rescue missions) & low downwash



VSR 700

**THE FUTURE OF SAR
ENHANCED, EFFICIENT & EFFECTIVE**

In service by mid/end of the 2020s

**700 kg MAUW*, 10 hours endurance
with 100 kg payload**

Mobile & transportable

Operate from ships or shore - anywhere

Can be embarked in ships > about 60 m

High precision landing

**Full capacity sensors tailored
to the mission**

* MAUW: Maximum All Up Weight

THE WORLD'S LEADING HELICOPTER MANUFACTURER

TO SUPPORT THE SEARCH
AND RESCUE COMMUNITY

Based on 60 years of experience saving lives, Airbus is always ready to provide the right customized solution you need, with the widest range of products and solutions and a large choice of equipment adapted to SAR missions







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AIRBUS

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The paper is entirely recyclable and is produced
from trees grown in sustainable forest resources.

The printing inks use organic pigments or minerals.
There are no use of basic dyes or dangerous metals
from the cadmium, lead, mercury or hexavalent
chromium group.

The printer, Art & Caractère (France 81500),
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