

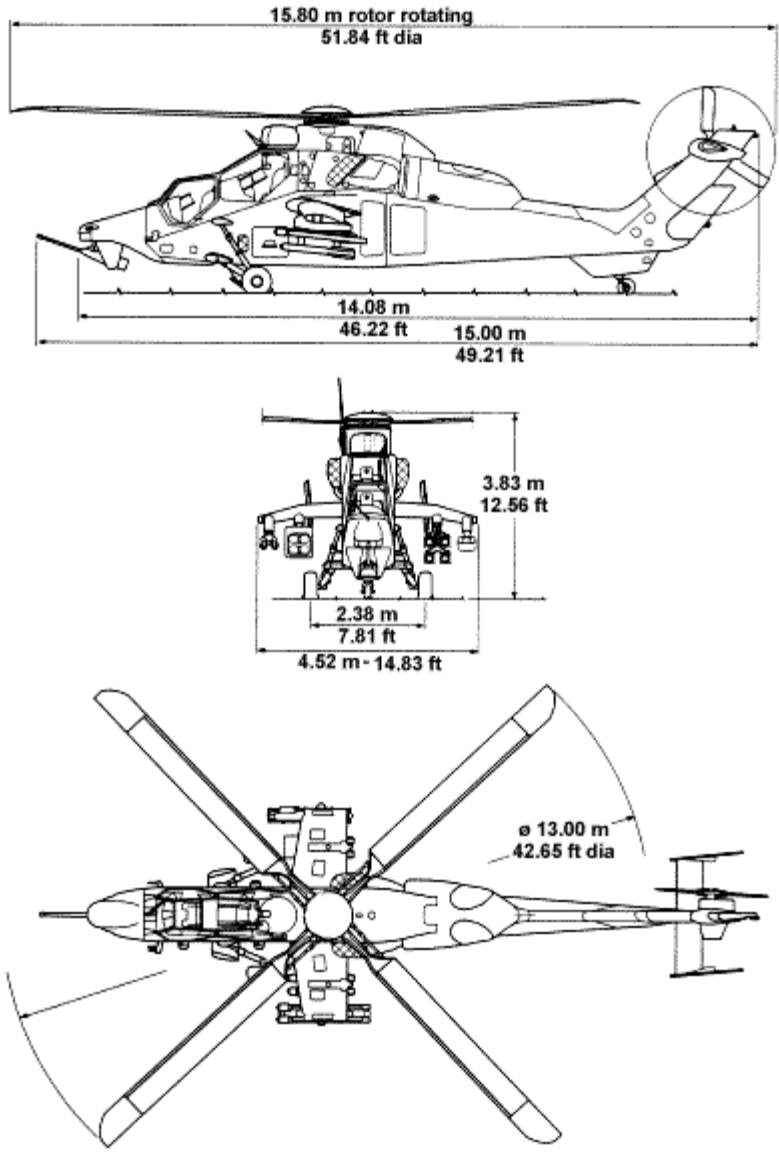
The Tiger HAP is an air-to-air combat and fire support medium-weight (6 tonnes) helicopter fitted with 2 MTR 390 engines. It is daytime and night combat capable and is operable in NBC environments. Three basic parameters were taken into account right from the start of the development phase: low (visual, radar and infrared) detectability, which provides excellent survivability on the battlefield, maximum efficiency of the weapons and the associated fire control systems without heavier workload for the crew, and an optimized logistic concept offering minimum possession costs.



The Tiger HAP is fitted with a 30-mm gun turret; 68-mm submunition rockets, and air-to-air Mistral missiles. It also features a firing sight with 3 sensors: infrared, TV camera and direct optical channel. The complete avionics suite includes multi-purpose color displays and radar/laser warning receivers.

<b>CHARACTERISTICS (Sea level, ISA)</b>	<b>TIGER</b>
<b>Maximum weight</b>	5,925 kg/13,060 lb Alternate gross-weight 6,000 kg/13,230 lb
<b>Capacity</b>	1 pil.+1 gunner
<b>Useful load</b>	HCP (roof sight) 1,800 kg/3,968 lb U TIGER (mast sight) 1,650 kg/3,638 lb
<b>Maximal operational weight with external load</b>	6,000 kg/13,230 lb
<b>Power plant</b>	2 MTR 390
<b>Take-off power (A.E.O.)</b>	958 kW/1,285 shp
<b>Maximum continuous power (A.E.O.)</b>	873 kW/1,171 shp
<b>Fast cruise speed ( at maximum weight)</b>	HCP (roof sight) 280 km/h-150 kts U TIGER (mast sight) 260 km/h-140 kts
<b>Maximum range with standard tank(s)*</b>	800 km-432 n.m.

\*With take-off at maximal weight



The Tiger UHT is a multi-role fire support helicopter. The Trigat Fire and Forget missiles and/or the Hot missiles it carries offer anti-tank capability, while 68-mm rockets ensure air-to-ground fire support. A 12.7 mm air-to-air gun pod and air-to-air Stinger missiles can also be installed.

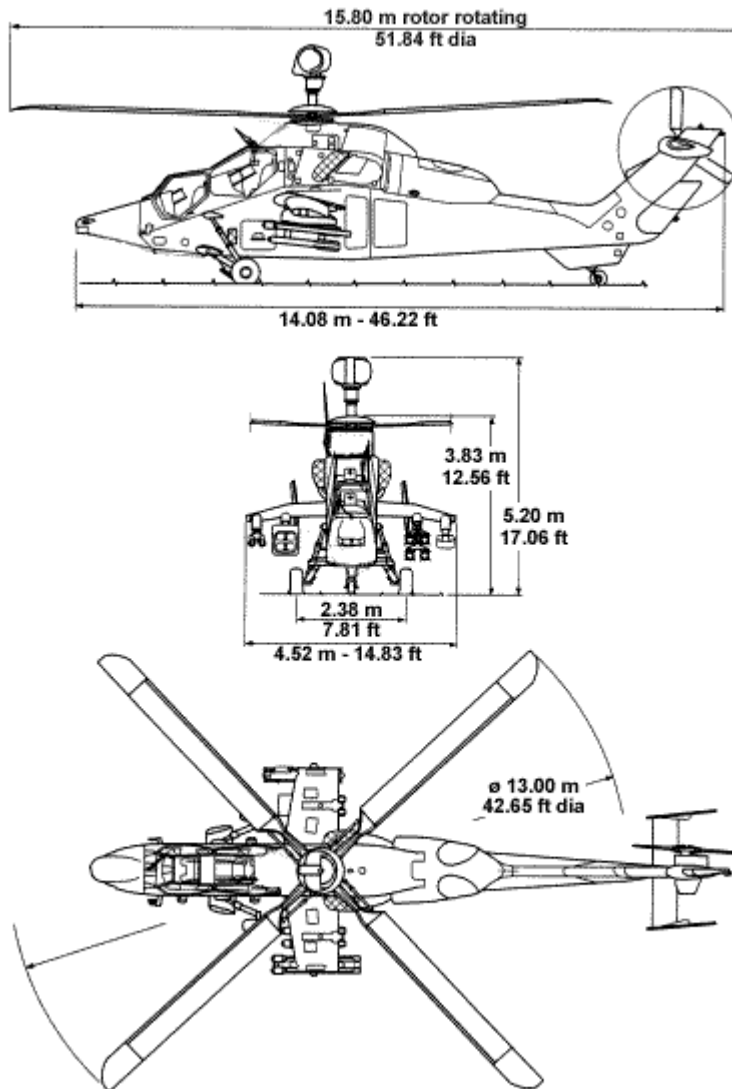


The helicopter also features a mast-mounted sight with a second-generation IRCCD infrared channel and a TV channel, as well as a nose-mounted IRCCD control FLIR for the pilot.

Countermeasures include radar/laser/missiles launch/missile approach warning receivers and decoy launchers.

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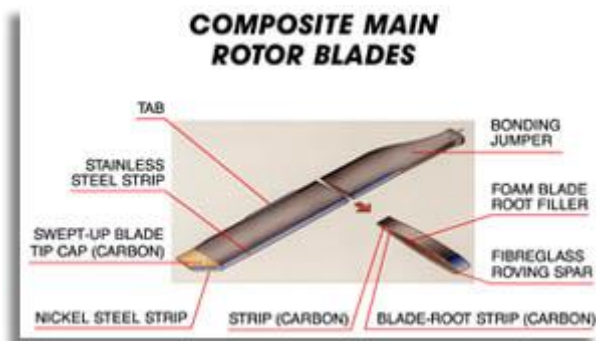
\*With take-off at maximal weight



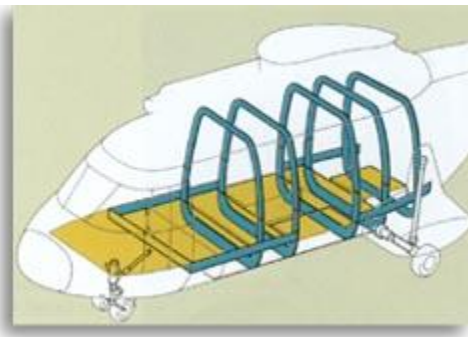
The AS 532SC is the navalized version of the COUGAR family, fitted with two [Turbomeca Makila 1A1](#) turboshaft engines. Particularly suited for anti-surface warfare, anti-submarine warfare.



## TECHNOLOGY



- Main rotor with 4 composite-material blades equipped with gust and droop stops.



### Crashworthy design

- Main frame
- Tail boom
- Transmission deck
- Cockpit floor
- Part of fuselage
- High energy absorption landing gear
- Fuel/hydraulic piping

The central structure has been locally reinforced with rigid frames able to resist to the crashloads.

The main landing gear absorbs a large amount of the crash energy.



#### Low radar signature

- Resulting from the extensive use of composite materials in many structural components and in the blade manufacture

The multipurpose air intakes protect the engines against sand or ice ingestion. This equipment has fully proven its efficiency in operation world wide.



#### Shipborne suitability

- Its deck landing ability is compatible with the deck movements encountered at the extremes of normal crew capabilities. Able to interface with many different securing and traversing systems (Rast, Assist, Mac Taggart and Samahe...). The **AS532SC** can be operated easily at sea with maximum safety

**FULL GLASS COCKPIT**  
with state of art AMLCD's  
(Active Matrix Liquid Crystal Displays)



## MISSIONS



### MARITIME SURVEILLANCE & S.A.R.

- With its core system, the **AS532SC** is able to manage the surface situation, detect, identify and track the different types of surface targets, either in active or passive mode. It is able to provide **Over The Horizon Targeting** to any friendly firing ship. Equipped with a hoist it has a full **SAR** capability. The **AS532SC**, in one hour, is able to survey the same area as a frigate during 24 hours.

### ANTI-SURFACE UNIT WARFARE

- When fitted with the ASUW equipment package the **AS532SC** is the only modern helicopter in the western world to be armed with a long range fire and forget, all weather, stand-off, sea skimming and combat proven weapon system : the **EADS AM39 BLOCK 2** missiles. The formidable fire-power of these two missiles can be used far away, since the **AS532SC** in this configuration is able to strike a target 150nm away from its home ship or air base.







#### ANTI-SUBMARINE WARFARE

- In ASW configuration, the **AS532SC** is able to detect, classify, attack and destroy submarines in all weather conditions in deep or shallow waters. The ASW package includes a low frequency high depth dipping sonar with very high acoustic performance and short dip cycle time. It can be armed with two torpedoes. At 30nm from its base the **AS532SC** can remain more than 2.5 hours on task.

#### CASUALTY EVACUATION

In addition to the crew :  
1 doctor + 6 stretchers + 6 seated places



#### LOGISTIC TRANSPORT

External load carrying with sling  
Max.capacity : 4,500kg/9,920lb

#### POWER PLANT

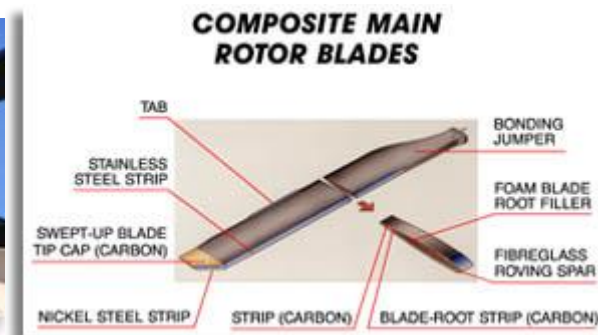


2 x TURBOMECA MAKILA 1A1 turboshaft engines

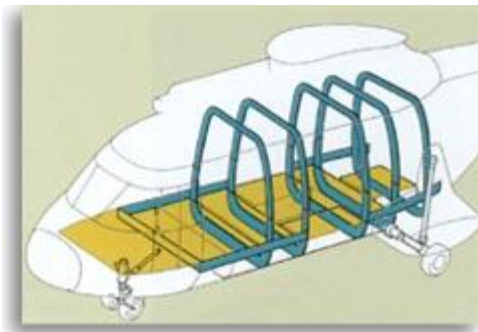
The AS 532AL is the long version of the COUGAR family, fitted with two [Turbomeca Makila 1A1](#) turboshaft engines. It can carry up to 25 commandoes, and can be equipped with pod-mounted cannons, rocket-launchers or side firing cannon.



## TECHNOLOGY



- Main rotor with 4 composite-material blades equipped with gust and droop stops.



### Crashworthy design

- Main frame
- Tail boom
- Transmission deck
- Cockpit floor
- Part of fuselage
- High energy absorption landing gear
- Fuel/hydraulic piping



The central structure has been locally reinforced with rigid frames able to resist to the crashloads.

The main landing gear absorbs a large amount of the crash energy.



The troops in the cabin can be protected in case of a crash, thanks to the crashworthy seats.

#### Reduced infra-red signature

- The exhaust gases of the engines can be diluted with cool air and deviated upwards by a jet dilution device.



#### Low radar signature

- Resulting from the extensive use of composite materials in many structural components and in the blade manufacture

A cable cutter protects the aircraft against wire strikes.



The multipurpose air intakes protect the engines against sand or ice ingestion. This equipment has fully proven its efficiency in operation world wide.

**FULL GLASS COCKPIT**  
with state of art AMLCD's  
(Active Matrix Liquid Crystal Displays)



## MISSIONS



### TACTICAL TRANSPORT

In addition to the crew :  
1 chief of stick + 24 troops seats or  
1 chief of stick + 18 crashworthy troop seats

#### CASUALTY EVACUATION

In addition to the crew :  
1 doctor + 6 stretchers + 10 seated places



#### COMBAT SAR/FIRE SUPPORT

The AS 532AL can rescue pilots of helicopters or aircraft who may have been fired-down in unfriendly zone.

It can also intervene in fire support, fitted on both sides of the cabin with an armament support which is able to carry a wide range of external weapons.(cannons, rocket-launchers, machine guns).

#### SEARCH AND RESCUE

The Cougar AS 532AL can be fitted with a fully integrated SAR system, including a Navigation Computer, a 4- axis Flight Director Coupler and a Search Radar.

This system performs automatic SAR with search patterns and automatic transition-down/up and hover.





**LOGISTIC TRANSPORT**  
External load carrying with sling  
Max.capacity : 4,500kg/9,920lb

**BATTLEFIELD SURVEILLANCE**  
Capable of processing 4000 targets simultaneously, the "HORIZON "system is designed primarily for observing ground movements and for target designation up to 200 km.



**POWER PLANT**



2 x TURBOMECA MAKILA 1A1 turbine engines

**TECHNOLOGY**





NEW "SPHERIFLEX™" MAIN ROTOR HEAD



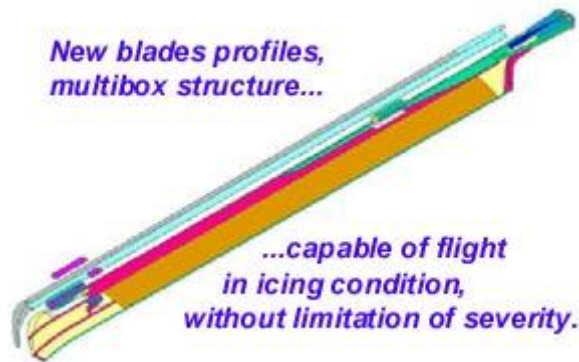
5-BLADE ROTOR SYSTEM FOR :

- Very low Vibration Level
- High Performance
- Ease of Maintenance



"SPHERIFLEX™" TAIL ROTOR HEAD  
All composite Tail Rotor Blades

*New blades profiles,  
multibox structure...*

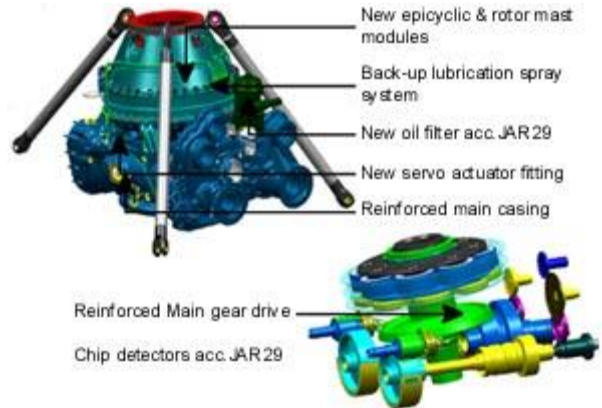


*...capable of flight  
in icing condition,  
without limitation of severity.*



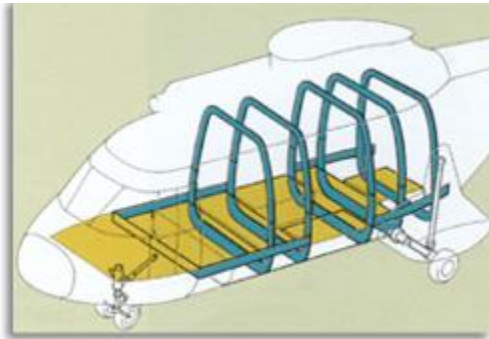
### NEW MAIN GEAR BOX

- MK2 MGB reinforced by deep nitrogen hardening of the driving input bevel gear, 8% more power
- 30mn dry run (Cooling device)



### FULL GLASS COCKPIT with state of the art AMLCD's (Active Matrix Liquid Crystal Displays)

- 4 screens 6"x 8"
- 2 screens 4"x 5"

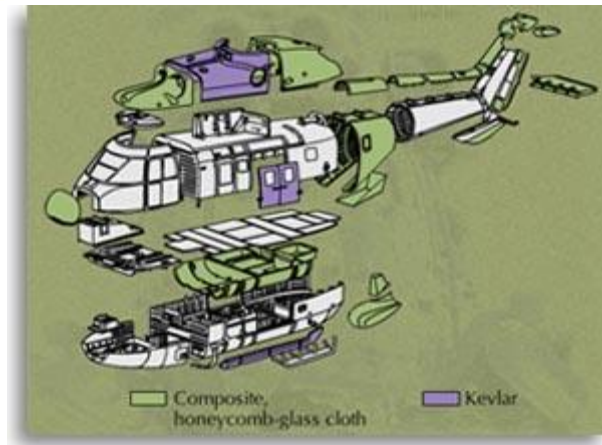


### CRASHWORTHY DESIGN

The central structure has been locally reinforced with rigid frames able to resist to the crashloads.

### MIXED COMPOSITE METALLIC AIRFRAME

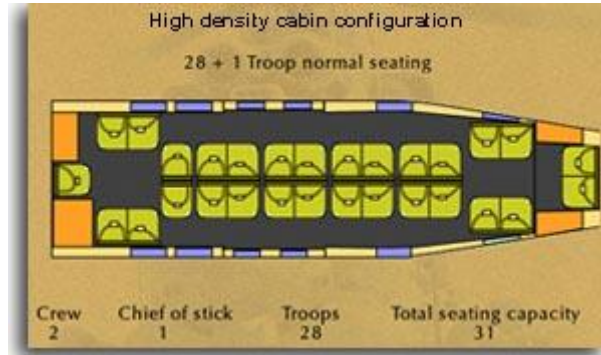
Extensive use of composite material.  
Reduced Radar Signature



### MISSIONS

**TROOP TRANSPORT**

- 28 troop seat installation**  
 Providing the selection of the dedicated option, the **EC725** can accommodate up to 28 troop seats in addition to the chief of stick and the pilots, for a total seating capacity of 31.

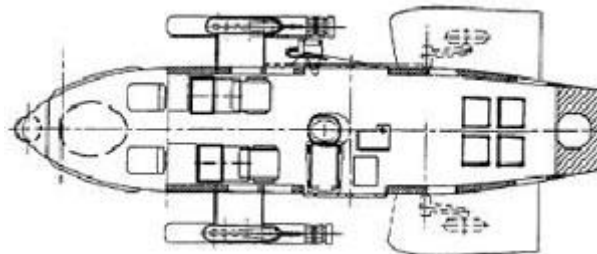


**MEDEVAC**

- 12 stretchers casualty carrying installation**  
 The **EC725** can accommodate up to 12 stretchers and 4 attendant seats

**NAVAL MISSION SYSTEM**

- ASU/WAS/SAR cabin configuration.**  
 The large cabin volume of the **EC725** accommodate any complete suite of Naval mission system, including 2 multifunction workstations, a sonar, a sonobuoy dispenser, leaving sufficient room for additional mission equipment



An important amount of available qualified mission equipment and installations can be fitted on **EC725** to be customized to any specific SAR and CSAR mission requirement.

**SAR/CSAR**





- Low radar signature resulting from the extensive use of composite materials



- Reduced infra-red signature



- Crew protection



- Electronic protection ; Radar Warning Receiver



- Combat- SAR armaments



## POWER PLANT



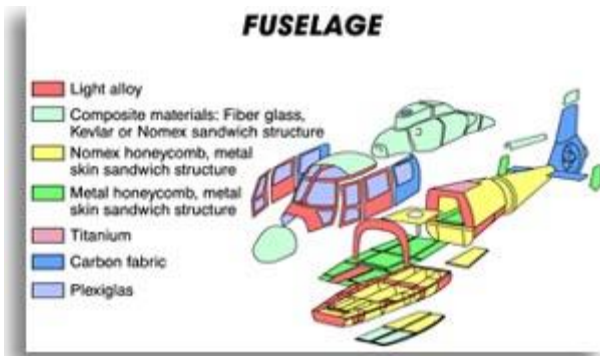
2 x TURBOMECA MAKILA 2A turbine engines  
with blade shedding technology and redundant FADEC system

The Panther AS 565 UB is the military version of the Dauphin and features the same technological innovations. It is powered by two TURBOMECA Arriel 2C turbine engines. This engine is equipped with an Full Authority Digital Electronic Control (FADEC). Its main missions are : transport of 8 to 10 commandos to the combat zones, casualty evacuation, and logistic support.



## TECHNOLOGY

Its design calls for widespread use of composite materials .



### "STARFLEX™" fiberglass rotor head

- Good manoeuvrability
- Great stability
- Very low vibration level
- Spinning- up in winds of up to 55 kts (head on)
- Impact resistant
- Ease of maintenance



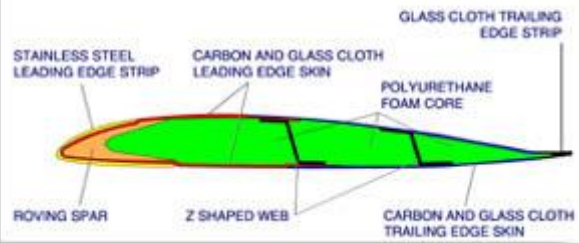
#### Fibreglass and carbone fibre main blades

- Virtually immune to scratches and notches
- Corrosion proof
- Manually foldable
- Unlimited life
- Impact resistant



#### COMPOSITE MATERIAL BLADES

- RUGGED
- LOW-COST AND EFFICIENT
- CORROSION-FREE



#### "FENESTRON™" faired-in tail rotor

- Increased safety when manoeuvring at low altitude or landing, and greater safety of ground personnel
- Good directional control
- Impact resistant



#### MISSIONS

##### TACTICAL TROOP TRANSPORT

- Capacity 2 pilots + 10 commandoes

##### CASUALTY EVACUATION

- Capacity : up to 4 patients + 1 doctor







#### LOGISTIC SUPPORT

- Sling capacity : 1,600kg/3,527lb

#### RESCUE

- Hoist capacity  
Max.load : 272kg/600lb  
Cable lenght : 90m/295ft



#### POWER PLANT



TURBOMECA Arriel 2C turbine engine