



AS565<sub>MB</sub>





## The All-Weather, Multi-Role Force Multiplier

The AS565 MB is the naval version of the Panther family of helicopters. This all-weather, multi-role light helicopter can be operated from ship decks or offshore to cover a vast array of naval missions such as maritime surveillance, search and rescue (SAR), casualty evacuation, vertical replenishment, offshore patrolling and counter-terrorism. The AS565 MB is the ideal complementary asset for anti-submarine warfare (ASW) and anti-surface warfare (ASuW) tasks, such as submarine and surface target destruction: It can launch its own torpedoes and provide Over-the-Horizon Targeting (OTHT) to surface ships.

The AS565 MB is equipped with two Turbomeca Arriel 2C turboshaft engines that provide reliable performance in hot and high conditions, modern cockpit avionics, an outstanding Automatic Flight Control System (AFCS), retractable landing gear and a Fenestron® tail rotor that provides a high level of maneuverability and safety for ground crew, air crew and passengers.

Boasting easy maintenance and high endurance, the flexible, proven and cost-effective AS565 MB Panther is perfectly adapted to navy and coast guard requirements.



## Naval Missions

For all types of naval missions, the AS565 MB perfectly fits the bill. Quiet and cost effective, the AS565 MB significantly multiplies a surface ship's ability to conduct surveillance, Anti-Surface unit Warfare (ASuW) and Anti-Submarine Warfare (ASW). With an endurance of four hours, the AS565 MB is an affordable and valuable alternative to medium-class helicopters which are limited in their ability to perform full anti-submarine and anti-surface warfare (ASW/ASuW) missions. AS565 MB is an enabler and a force multiplier with an excellent record.





### Shipborne Operations

The AS565 MB is fully qualified to operate from over one hundred classes of NATO ships, and complies with NATO's standardization agreements (STANAGs) regarding tie down fittings, fuel hoses, DC & AC connectors and deck grids for "harpoon" deck-lock securing devices. This hydraulically activated device enables the AS565 MB to land and take off from ship decks, regardless of the wind direction: Landings and takeoffs are possible with +/- 8° roll and +/- 2° pitch with a 45-knot headwind.

### Maritime surveillance

Surface ships can only search within a limited area due to limitations imposed by its aerial height and speed. Equipped with an advanced search radar, the AS565 MB increases a ship's capacity to perform surveillance by a factor of 10.

### Anti-Submarine Warfare

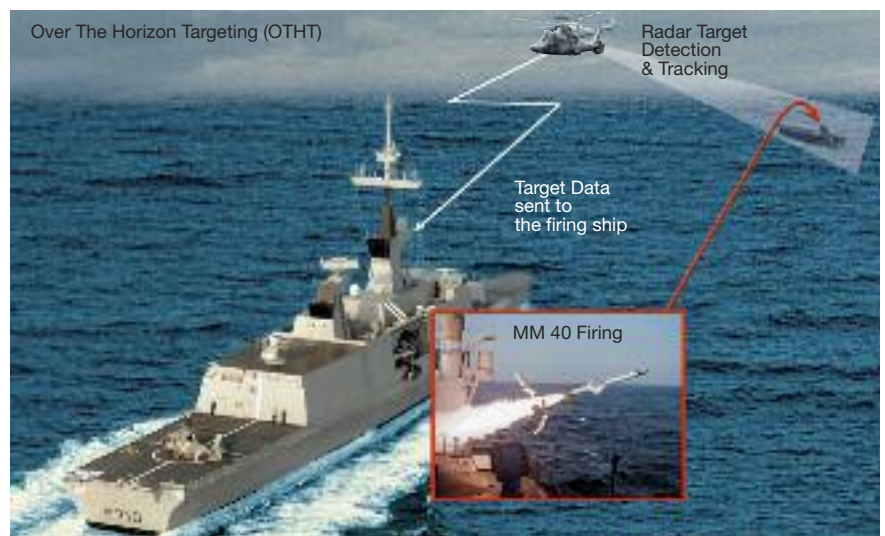
Nowadays, surface ships are equipped with towed sonars. These sonars enable long-range submarine detection at variable depths far beyond a ship's torpedo range. The AS565 MB is the perfect complementary asset for anti-submarine warfare (ASW): Ready either in the air or on the deck for torpedo attacks, the AS565 MB enables navies to strike farther, and allows ships to strike a submarine without having to close within the submarine's own attack area.

### Anti Surface Warfare and Over-the-Horizon Targeting

The AS565 MB can perform Over-the-Horizon Targeting (OTHT) for ships with long range anti-ship missiles. This quadruples surface ships' effectiveness in anti-surface warfare (ASUW). With the new generation of air launched anti-ship missiles such as MBDA's Future Anti Ship Guided Weapon (FASGW), the AS565 MB acts as a ship's principal weapon system, enabling it to search, classify, shadow and strike with precision well beyond the horizon without the ship ever being detected. The endurance of the AS565 MB at loiter speed is more than 4 hours in maritime surveillance and OTHT roles.

### Law Enforcement

The quick and quiet AS565 MB is a highly cost-effective tool against piracy, smuggling, illegal fishing and for all policing roles in Exclusive Economic Zones (EEZs) or areas of national interest. For law enforcement missions, the AS565's endurance is 3 hours at loiter speed and can be configured for snipers and rapid boarding parties for weapons such as the 20-mm canon or cabin machine guns. It can also carry a range of sensors including electro-optics, searchlights and loudspeakers.





## SAR and Medical Evacuation Missions

For SAR and MEDEVAC missions, the AS565 MB has a flexible cabin that enables operators to tailor the configuration to their exact needs. It is rapidly reconfigurable as roles change, and can be equipped with the latest medical equipment.

The AS565 MB's SAR credentials are the best in the world: It has been the benchmark for medium range SAR aircraft for many years and continues to set the standard. The US Coast Guard, for example, currently operates over 100 Panther helicopters.





### Extensive SAR Equipment:

- 4-axis Automatic Flight Control System (AFCS)
- Flight Management System (FMS) with doppler and GPS
- Search and weather radar
- FLIR (optional)
- Variable speed electric Class 1 rescue hoist: 0 to 1.3 m/sec (0 to 250 ft/min)
- Cargo sling load with dynamometer: 907 kg (2,000 lb) or 1,600 kg (2,500 lb), depending on configuration
- Emergency floatation gear
- Stretcher-supporting structure
- Loudspeaker and search light
- MEDEVAC installation.

### SAR and Assistance Mission Profiles

- 160 NM radius of action to hoist 2 to 4 survivors + 20 min. reserve (nocabin tank) at sea level ISA + 20°C
- 105 NM radius of action to sling 400 kg load + 20 min. reserve (cabin tank) at sea level ISA + 20°C.

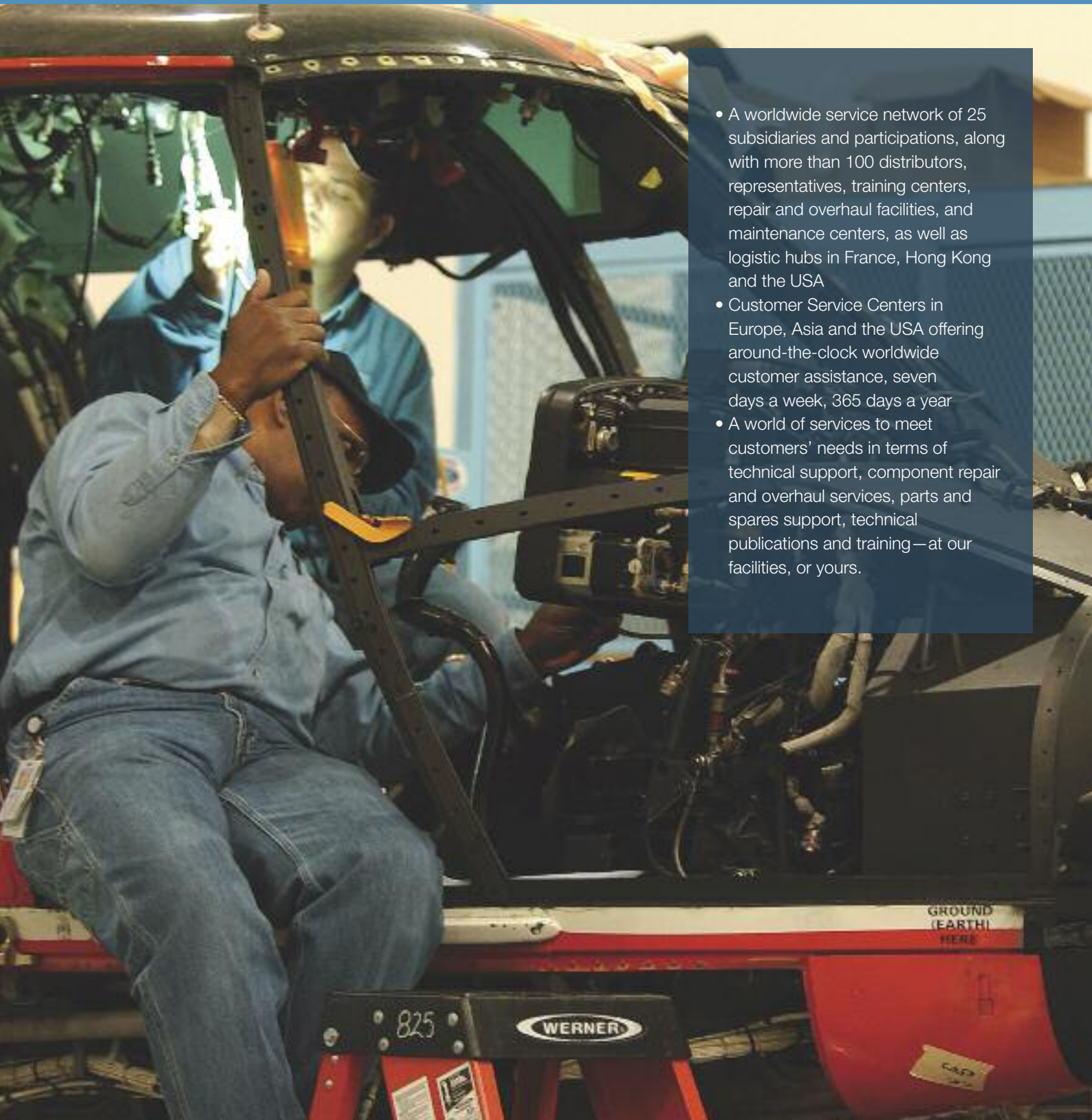




## Support and Services

Eurocopter is committed to supporting your Eurocopter product with the same level of excellence that you have come to expect from our aircraft themselves. We are dedicated to looking out for the best interests of our customers, whether this be maximizing flight revenues, ensuring public safety or saving lives. Our customer support team is at your service 24/7 to keep you flying. In order to provide the individualized attention our customers require, we offer:

- A worldwide service network of 25 subsidiaries and participations, along with more than 100 distributors, representatives, training centers, repair and overhaul facilities, and maintenance centers, as well as logistic hubs in France, Hong Kong and the USA
- Customer Service Centers in Europe, Asia and the USA offering around-the-clock worldwide customer assistance, seven days a week, 365 days a year
- A world of services to meet customers' needs in terms of technical support, component repair and overhaul services, parts and spares support, technical publications and training—at our facilities, or yours.





The US Coast Guard experience:  
nearly 1,1 million flight hours with HH65

Operational availability  
81% for 71% required



### Safe and Simple Access for Maintenance

- Built-in steps

### Daily Check Intervals

- Before the first flight
- Turnaround
- After the last flight.

### Inspection Intervals

- Basic inspection: Every 500 hours or 18 months
- Major inspection: Every 5,000 hours or 12 years.



### Quick Operational Maintenance

- O & I level: 3 technicians per aircraft
- No lubrication of main rotor head and tail rotor.

### Replacement Times of Major Assemblies on Board the Ship or on the Field: Removal of the Multi-Purpose Jib

- Requirements: 17 minutes, 2 technicians

### 4 Rotor Blades

- Requirements: 12 minutes for removal, 15 minutes for installation, 2 technicians



### Tail Rotor Hub

- Requirements: 12 minutes for removal, 18 minutes for installation, 1 technician

### Main Rotor Gear Box

- Requirements: 40 minutes for removal, 60 minutes for installation, 2 technicians

### 1 Engine

- Requirements: 45 minutes for removal, 75 minutes for installation, 2 technicians



# Technology

AS565 MB helicopters feature Eurocopter-designed technical advancements such as a modular mechanical assembly design and composite Starflex rotor heads, blades and airframe, all of which have led to a significant reduction in maintenance time and costs. The AS565 MB incorporates the new generation, 100% composite Fenestron® tail rotor which provides high maneuverability, low external sound level and optimal safety for passengers, ground and air crews. It is also equipped with a unique Flight Control System and Flight Management System from Eurocopter's heavy range of helicopters. These systems, developed specifically for helicopters, provide enhanced safety by tailoring failsafe modes to helicopter, not fixed wing aircraft, characteristics.







## Increased Mission Performance and Reduced Crew Workload

### A Quiet Fenestron®

- Composite blades
- High level of safety
- Low sound level signature (3.1 dB below ICAO requirements)
- Increased damage tolerance
- Longer service life limit
- Minimal maintenance.

### High Set Main Rotor

- Enhanced safety for passengers and ground personnel.

### Powerful Turbomeca Ariel 2C Engines

- Maximum power per engine: 729 kW/977 shp
- Proven technology: Safety and reliability at its best.

SAR modes automatic transition down-transition up & hover



### The FADEC System

- Electronic engine control enhances safety and reduces pilots' workload.

### Fiberglass and CarbonFiber Main Rotor Blades

- Virtually immune to scratches and notches
- Corrosion-proof
- Manually foldable
- 20,000 hours service life.

### Retractable Main Landing Gear

- No operational speed limitations.

### Starflex Fiberglass Rotor Head

- Outstanding maneuverability and stability
- Very low sound level and vibration levels
- Rotor engagements in winds of up to 55 kts
- Easy to adjust.

### Modern Cockpit Avionics

- Two-pilot cockpit
- 2 x 2 color multifunction displays (MFD-255)
- 10.4-inch color tactical display (radar, navigation & FLIR)
- NVG compatible
- Can accommodate mission-specific equipment: OTHT joystick, radar warning receiver (RWR) system, torpedo control box, etc.

### State-of-the-Art Automatic Flight Control System (AFCS)

- 4-axis AFCS for automatic transition to and from the hover in all conditions
- Automatic acquisition and hold of: ALT, HDG, V/S, A/S, NAV, VOR & ILS glide approach, etc.
- Safety modes: Go-Around (G/A) & FLY-UP
- Joystick control function allows winch operators to control the hover with precision over survivors.



4 axis APM 2010 AFCS control box



## Characteristics

Eurocopter is committed to supporting your Eurocopter product with the same level of excellence that you have come to expect from our aircraft themselves. We are dedicated to looking out for the best interests of our customers, whether this be maximizing flight revenues, ensuring public safety or saving lives. Our customer support team is at your service 24/7 to keep you flying. In order to provide the individualized attention our customers require, we offer:







## The Panther Family: A Growing Number of Satisfied Military Operators

Nearly 300 Panther family helicopters (AS365/AS366/AS565/EC155) operated by maritime customers are currently in service in 29 countries.







### Worldwide Operations

AS565 MB helicopters are suited for day and night shipborne operations in all environments, from - 40° C (- 40° F) up to 50° C (122° F).

### Dauphin/Panther Family Fleet Status as of end 2011

- 1033 helicopters delivered
- 5,405,000 flight hours logged
- 6131 has flown 27,200 hours.





thinking without limits



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