Tiger HAD
Attack
Ground fire support
Escort
Armed reconnaissance
Air-to-Air combat
Tiger in the digitized battlefield
«Not one step without my Tiger»

206 Tigers ordered. 1st serial delivery in 2005.

Operated by 4 armies worldwide.

- Operational technical availability > 90%.
- High and hot performance.

Combat proven since July 2009
(Afghanistan, Libya and Mali).

The Tiger is a key asset in the battlefield.
Main assets

Low Detectability
• Flat and narrow silhouette,
• Low radar IR signature,
• Passive weapon system, capable to operate with nil laser / EM (except when firing).

Low Vulnerability
• Systems redundancies and segregation,
• Agility (Rigid rotor),
• Self-sealing tanks.

High Survivability
• Additional Ballistic Protection,
• Chaff & Flares dispenser,
• High crashworthiness.

Passive Electronic Warfare System

High Maneuverability and Agility
• Highly responsive Bearing Main Rotor Head.

Optimal Visibility
• Tandem cockpit, pilot in front and gunner in upper position.

Firing Domain
• Equal to flight domain, either in Air-to-Ground or in Air-to-Air combat.

Range for self deployment

Easy to Maintain
• Operable without heavy infrastructure,
• Low Manpower,
• Optimum Availability.

TYPICAL CHARACTERISTICS

| Maxi Take-Off Weight (MTOW) - ISA, SL | 6,600 kg | 14,553 lb |
| Engine 2 x MTR 390 - Step 1-5 | 1,092 kW | 1,464 shp |
| Super contingency power (OEI) | 1,322 kW | 1,774 shp |
| Standard fuel capacity | 1,105 kg | 2,435 lb |
| Standard fuel capacity + external fuel tanks | 1,689 kg | 3,723 lb |

PERFORMANCES

| Fast cruise speed at MTOW SL | 271 km/h | 146 kts |
| Mission duration (standard) | 2 h 30 min |
| Maximum endurance with external fuel tank | 5 h 00 min |
| Max range “armed” with standard fuel tanks | 400 NM | 740 km |
| Max range “not armed” with external fuel tanks | 610 NM | 1,130 km |

FLIGHT ENVELOPE

| Operating temperature | -30°C to ISA + 35°C |
| Service ceiling | -500 m to 4,000 m | -1,640 ft to 13,123 ft |
Mission System

Gyro stabilized Roof Mounted Sight (RMS)
- TV camera (3 FoV),
- Thermal imager (3 FoV + electronic Zoom),
- Laser range finder,
- Laser designator,
- Laser spot tracker, up to 4 targets automatic tracker.
- Steered in azimuth (+/- 120°) and elevation (+40°/-25°).

Helmet-Mounted Sight/Displays (HMSD)
- Pilot’s and Gunner’s
- Piloting and firing symbology,
- Slaving function, either with RMS or with 30 mm turret-mounted gun.

IFF Transponder / Interrogator

HF/Datalink

Digital Map Generator
- System EUROGRID
- Map display
- Battlefield management system

Pilot cockpit with PFD and tactical display in elevation mode
Armament

30 mm turret-mounted gun
(Nexter 30M781).
- The most accurate and lethal on the market.
- Combined with the RMS and slaved by two HMOD-P+G Optimized through a performant firing control system (algorithms of target trajectory prediction).
- Reducing collateral damages and fratricide firing risks.
- Total Ammunition capacity:
  - 450 rounds,
  - Rate of fire: 750 rounds per minute,
  - Bursts: 5 / 10 / 25 bullets,
  - Azimuth: +/- 90°,
  - Elevation: +28° / -25°.
- Optimized firing domain:
  - ATG: up to 1,500 m,
  - ATA: up to 1,000 m.

Rockets
- Versatile 68 mm or 70 mm unguided rocket system (change of rocket type without change of any fixed part on helicopter).
  - 68 mm (up to 68 rockets):
    - 2 inner launchers of 22 rockets,
    - 2 outer launchers of 12 rockets.
  - 70 mm (up to 52 rockets):
    - 2 inner launchers of 19 rockets,
    - 2 outer launchers of 7 rockets.
- Firing Control for:
  - rocket inner pods elevation,
  - sub-ammunition ejection delays,
  - rocket types.
- Growth potential for laser guided rockets.

Missiles
- **Air-to-Air Mistral Missile**
  - Off boresight capability,
  - Multicell seeker,
  - 2 x 2 missiles (outer launchers),
  - Range = up to 6000 m.
- **Air-to-Ground missiles**
  - Hellfire (laser guided):
    - 2 M299 launchers x 4 missiles,
    - Range = 8000 m,
    - Self designation or Collaborative designation,
    - Locked Before Launch (LOBL) or Locked After Launch (LOAL).
  - Spike ER
    - 2 x 4 missiles,
    - Range = 8000 m,
    - (Fire-and-follow) with electro-optical or fiber optics technologies.
Typical Configurations

Attack
4 Air-to-Air Mistral
+ 8 Hellfire or Spike
+ 30mm turret gun

Ground Fire Support
68 rockets 68mm
or 52 rockets 70mm
+ 30mm turret gun

Escort
2 Air-to-Air Mistral
+ 4 Hellfire or Spike
+ 34 rockets 68mm or 26 rockets 70mm
+ 30mm turret gun

Armed Reconnaissance
4 Air-to-Air Mistral
+ 44 rockets 68mm
or 38 rockets 70mm
+ 30mm turret gun

Air-to-Air combat
4 Air-to-Air Mistral
+ 30mm turret gun
General design architecture

Electronic Warning System - EWS

- 4 radar warning receivers,
- 2 laser warning receivers,
- 4 missile launch detectors,
- 2 chaff & flare dispensers.
Easily deployable

Anytime Anywhere

Easy maintenance
Contacts
For more information, please contact: sales-promotion@airbus.com