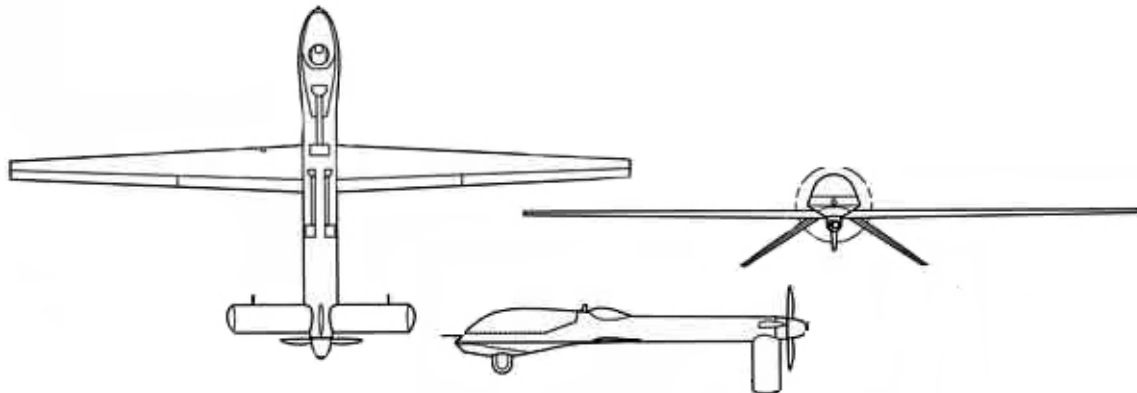


## MQ-1 Predator

**Users:** U.S. Air Force, Army, Navy, Italian Air Force

**Manufacturer:** General Atomics Aeronautical Systems Inc.

**Inventory:** 139 (all types) Delivered/170 Planned (4 UA per system) (2006)



**Background:** The Air Force RQ-1 Predator was one of the initial Advanced Concept Technology Demonstrations (ACTDs) in 1994 and transitioned to an Air Force program in 1997. In 2001, the Air Force added a laser designator for use with precision-guided munitions and the ability to employ Hellfire missiles from the Predator, leading to its designation being changed from RQ-1 to MQ-1 to reflect its multi-mission capability. The MQ-1 fleet reached the 300,000 flight hour mark in Jun 2007, with over 80 percent of the hours flown in combat. It was declared operationally capable (IOC) in March 2005. The Navy purchased three RQ-1As for R&D as well as training.

[http://www.af.mil/factsheets/factsheet\\_print.asp?fsID=122&page=1](http://www.af.mil/factsheets/factsheet_print.asp?fsID=122&page=1).

### Characteristics:

	MQ-1 B		MQ-1 B
Length	27 ft	Wing Span	55 ft
Gross Weight	2,250 lb	Payload Capacity	450 lb
Fuel Capacity	640 lb	Fuel Type	AVGAS
Engine Make	Rotax 914F	Power	115 hp
Data Link(s)	BLOS	Frequency	Ku-band
	LOS		C-band

### Performance:

Endurance	24+ hr clean 16 hr w/external stores	Max/Loiter Speeds	118/70 kt
Ceiling	25,000 ft	Radius	500 nm
Takeoff Means	Runway	Landing Means	Runway
Sensor(s)	EO/IR	Sensor Model(s)	AN/AAS-52
	SAR		AN/ZPQ-1
Weapons	2xAGM-114		

## **MQ-1C Warrior (formerly Extended Range/Multi-purpose (ER/MP))**

**User Service:** U.S. Army

**Manufacturer:** General Atomics ASI, San Diego, CA

**Inventory:** 0 Delivered/132 Aircraft (11 Systems) Planned (12 UA per System) (2006)

**Background:** The MQ-1C Warrior UAS will provide combatant commanders a much improved real-time responsive capability to conduct long-dwell, wide area reconnaissance, surveillance, target acquisition, communications relay, and attack missions. The major difference between Warrior and preceding models of Predator is its use of a diesel engine to simplify its logistics. Milestone B decision was made on April 20, 2005 for entry into System Development and Demonstration (SDD), with contract award to General Atomics in August 2005. The Warrior is operated via the Army's One System Ground Control System (OSGCS) and lands via an Automatic Take-off and Landing System (ATLS). The Warrior's payload includes Electro-Optical/Infrared (EO/IR) and Synthetic Aperture Radar/Moving Target Indicator (SAR/MTI) capabilities. Its data relay capability is 500 /1200 km (ADR/SATCOM). Additionally, two 250-lb and two 500-lb hard-points under the wings provide an attack capability. Seventeen SDD airplanes will begin fabrication in 2007, and MS C and Low-Rate Initial Production (LRIP) are expected in FY08. Warrior will be fielded to each of the Army's Divisions.

### **Characteristics:**

	<b>MQ-1 C</b>		<b>MQ-1 C</b>
Length	28 ft	Wing Span	56 ft
Gross Weight	3200 lb	Payload Capacity	800 lb/500 lb external
Fuel Capacity	600 lb	Fuel Type	JP-8
Engine Make	Thielert diesel	Power	135 hp
Data Link(s)	BLOS	Frequency	Ku-band
	LOS		C-band (TCDL)

### **Performance:**

Endurance	24 hr w/250 lb payload	Max/Loiter Speeds	130/60 kt
Ceiling	25,000 ft	Radius	162 nm
Takeoff Means	Runway	Landing Means	Runway
Sensor	EO/IR/LRF/LD	Sensor Make	AAS-52
	SAR/MTI		APY-8

