

# Longbow Apache

Conducts close combat attack, deep precision strikes, and armed reconnaissance and security day or night, in all weather conditions.



## DESCRIPTION AND SPECIFICATIONS

Apache is a highly mobile and lethal aerial weapons platform able to destroy armor, personnel, and materiel targets day or night and under obscured battlefield and/or adverse, weather conditions. Apache is fielded to active, National Guard (NG) and Army Reserve (AR) attack battalions and cavalry units in accordance with the 2004 Army Modernization Plan. The Apache fleet includes the A model Apache and D model Longbow.

The AH-64D Longbow Apache is the Army's heavy attack platform for both Current and Future Forces. Both A and D models are programmed for recapitalization to address Task Force Hawk lessons learned, including upgrading to second-generation forward looking infrared (FLIR) technology with the Modernized Target Acquisition Designation Sight/Pilot Night Vision Sensor (MTADS/PNVS), non-line-of-sight communications, and video transmission/reception—and to reduce maintenance cost drivers.

The Longbow remanufacturing effort inducts the A model and incorporates a millimeter wave fire control radar (FCR), radar frequency interferometer (RFI), fire-and-forget radar-guided Hellfire missile and numerous cockpit management and digitization enhancements. The Army is converting 501 A models to the Longbow Apache configuration. This program consists of two multi-year contracts: the first delivered 232 Longbows; the second is delivering an additional 269 aircraft from FY02 through FY07. Two hundred and three A models will be retained and fielded to NG and AR units. These will receive a field retrofit to improve reliability, operational safety, and reduce maintenance costs.

The current Longbow Modernization Acquisition Strategy is designed to upgrade 284 Block I AH-64Ds to a Block III configuration, with an eventual acquisition objective of 501 total Block III modernized Longbows. Block III modernized Longbows will be designed and equipped with

an open systems architecture that will facilitate incorporation of the latest communications, navigation, sensor, and weapons systems.

**Combat mission speed:** 167 mph

**Combat range:** 300 miles

**Combat endurance:** 2.5 hours

**Maximum gross weight:** 20,260 pounds

**Armament:** Hellfire missiles, 2.75-inch rockets and 30mm chain gun

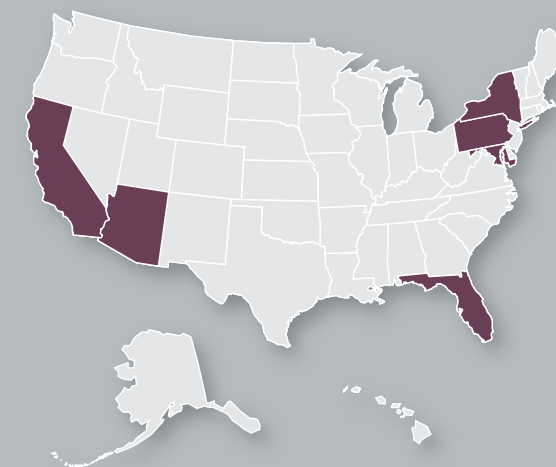
**Crew:** 2 (pilot and co-pilot/gunner)

## PROGRAM STATUS

- **FY04** Fielded two attack battalions bringing the total to 10

## PROJECTED ACTIVITIES

- **FY05** Field three additional attack battalions; first unit equipped for MTADS
- **FY05** Award contract for non-recurring engineering of system processor upgrades (open system architecture) for Block III Life Extension Program
- **FY06** Production contract award for 284 Block III aircraft



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## CONTRACTORS

### Airframe/Fuselage:

Boeing (Mesa, AZ; Philadelphia, PA)

### Fire Control Radar:

Northrop Grumman (Linthicum, MD)

Lockheed Martin (Owego, NY; Orlando, FL)

### MTADS/PNVS:

Lockheed Martin (Orlando, FL)

Boeing (Mesa, AZ)

### Rotor Blades:

Composite Structures (Monrovia, CA)

## INVESTMENT COMPONENT

Recapitalization

## ACQUISITION PHASE

- Production and Deployment