

Integrated Defense Systems
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Boeing CH-47F Chinook

Description & Purpose:

The CH-47F is an advanced multi-mission helicopter for the U.S. Army and international defense forces. It contains a fully integrated, digital cockpit management system, Common Aviation Architecture Cockpit and advanced cargo-handling capabilities that complement the aircraft's mission performance and handling characteristics.



Customer(s):

CH-47D Chinooks are currently in use by the U.S. Army, U.S. Army Reserve and National Guard and International armed forces. The U.S. Army Modernization Program calls for 513 Chinooks, which includes a combination of 452 New-Build and Remanufactured CH-47F aircraft and 61 M-47G Remanufactured aircraft. The CH-47F Chinook helicopter was certified combat-ready by the U.S. Army and fielded to the first operational unit in July 2007.

General Characteristics:

- Length: Fuselage – 52.0 ft. (15.9 m) Incl. Rotors – 99.0 ft. (30.18 m)
- Width: 12.42 ft (3.78 m)
- Rotor Diameter: 60 ft. (18.29 m)
- Height: 18.92 ft. (5.77 m)
- Propulsion: 2 Honeywell 55-GA-714A engines, 4,733 shp (3,529 kW) each
- Speed: 170 kt (315 km/h)
- Fuel: 1,034 gal. (3,914 L)
- Service Ceiling: 20,000 feet
- Useful Load: 24,000 lbs. (10, 886 kg)
- Mission Radius: 200 nm (370.4 km)
- Max Gross Weight: 50,000 lbs. (22,668 kg)
- Mission: Transport of troops, artillery, ammunition, fuel, supplies, water in support of combat operations, and civil and humanitarian relief

- Service Customer: U.S. Army, in service since 1962.

Background:

The Boeing Chinook is a tandem rotor, medium-lift helicopter that meets tactical and combat support mission requirements for military forces around the world. The Chinook is the world's most reliable and efficient transport helicopter, capable of handling useful loads up to 24,000 lbs. and a maximum gross weight of up to 50,000 lbs. (22,668 kg). Its tandem rotor configuration also provides exceptional handling qualities that enable the CH-47 to operate in climatic, altitude and crosswind conditions that typically keep other helicopters from flying.

The Chinook has been in U.S. Army service since 1962. The CH-47F/MH-47G modernization program is now in full-rate production, and will ensure this tandem rotor medium-lift helicopter remains in the Army fleet at least through the 2030s. It is conceivable that Chinooks will be Army Aviation assets for a century or more. In addition, Chinooks have served the armed forces of more than 15 international customers and performed in commercial service around the world.

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