



Carrier Air Wing

An operational naval aviation organization composed of several aircraft squadrons and detachments of various types of fixed wing and rotary wing aircraft. Organized, equipped and trained to conduct modern U.S. Navy carrier air operations while embarked aboard aircraft carriers, the various squadrons in an air wing have different, complementary (and sometimes overlapping) missions, and provide most of the striking power and electronic warfare capabilities of a carrier strike group (CSG).

The typical make-up of a Carrier Air Wing (CVW) consists of the following:

Number of Squadrons	Squadron Name	Description	Aircraft
4	VFA	Strike Fighter	Can contain the following: HORNET <i>F/A-18C</i> SUPER HORNET <i>F/A-18E</i> SUPER HORNET <i>F/A-18F</i>
1	VAW	Carrier Airborne Early Warning	HAWKEYE <i>E-2C</i>
1	VAQ	Fixed-wing, attack, electronic	GROWLER <i>EA-18G</i>
1	HSC	Helicopter Sea Combat	SEA HAWK <i>MH-60S</i>
1	HSM	Helicopter Maritime Strike	SEA HAWK <i>MH-60R</i>
1	VRC	Fleet Logistics Support	GREYHOUND <i>C-2A</i>

The Fleet

HORNET *F/A-18C*

All-weather fighter and attack aircraft. The single-seat F/A-18 Hornet is the nation's first strike-fighter. It was designed for traditional strike applications such as interdiction and close air support without compromising its fighter capabilities. With its excellent fighter and self-defense capabilities, the F/A-18 at the same time increases strike mission survivability.



PRIMARY ROLE
Multi-role attack and fighter aircraft

CREW
One person

SPECIFICATIONS
Length: 56 feet
Height: 15 feet, 4 inches
Wingspan: 40 feet, 5 inches
Weight: 51,900 pounds
Airspeed: Mach 1.7+
Ceiling: 50,000+ feet

Propulsion: Two F404-GE-402 enhanced performance turbofan engines.
Range: Combat 1,089 nautical miles (1,252 miles) clean
Ferry: 1,546 nautical miles (1,777.9 miles)

SUPER HORNET *F/A-18E/F*

Built on the nation's first strike fighter, the F/A-18 Hornet, today's F/A-18E/F Super Hornet is an attack aircraft as well as a fighter through selected use of external equipment and advanced networking capabilities to accomplish specific missions. This "force multiplier" capability gives the operational commander more flexibility in employing tactical aircraft in a rapidly changing battle scenario. In its fighter mode, it serves as escort and fleet air defense. In its attack mode, it provides force projection, interdiction, and close and deep air support.



PRIMARY ROLE
Multi-role attack and fighter aircraft

CREW
F/A 18E - One
F/A 18F - Two

SPECIFICATIONS
Overall Length: 60 feet, 3 inches
Wingspan: 44 feet, 9 inches
Weight: 66,000 pounds

Airspeed: Mach 1.7+
Ceiling: 50,000+ feet
Range: Combat 1,275 nautical miles (1,467 miles) clean

HAWKEYE *E-2C*

The E-2C Hawkeye is the Navy's all-weather, carrier-based, tactical battle management airborne early warning and command and control aircraft. It is a twin engine, five crewmember, high-wing turboprop aircraft with a 24-foot diameter radar rotodome attached to the upper fuselage. The Hawkeye provides tactical battle management, command, control and communications, and airborne early warning functions for the Carrier Strike Group and joint force commander in all weather, day or night.



PRIMARY ROLE
Airborne Command and Control

CREW
Five people

SPECIFICATIONS
Length: 57 feet, 9 inches
Height: 18 feet, 4 inches
Wingspan: 80 feet, 6 inches
Weight: 42,000 pounds
Airspeed: 320 knots

Ceiling: 37,000+ feet
Propulsion: Two Rolls Royce T56-A-427 turboprop engines
Range: Combat 1,500 nautical miles

GROWLER *EA-18G*

The EA-18G Growler is a variant of the combat-proven FA-18F Super Hornet Block II, and will fly the airborne electronic attack mission. The EA-18G combines the capability of the combat-proven Super Hornet with the latest AEA avionics suite evolved from the Improved Capability III (ICAP III) system. The EA-18G's vast array of sensors and weapons provides the warfighter with a lethal and survivable weapon system to counter current and emerging threats.



PRIMARY ROLE
Electrical attacker

CREW
Two people

SPECIFICATIONS
Length: 60 feet, 1.25 inches
Height: 16 feet
Wingspan: 44 feet, 8.5 inches
Empty Weight: 33,094 lbs.
Loaded Weight: 48,000 lbs.

Maximum takeoff weight: 66,000 pounds
Powerplant: 2x General Electric F414-GE-400 turbofans
Dry thrust: 14,000 lbf each

SEA HAWK *MH-60R/S*

Two variants of the MH-60 Seahawk provide next generation, multi-mission Sea Control capabilities to Carrier Strike Groups, Amphibious Readiness Groups, Surface Action Groups and Littoral Combat Ships. The MH-60R is the sole organic air Anti-submarine Warfare (ASW) asset in the CSG and a significant part of the spectrum Anti-submarine Warfare and maritime Electronic Warfare mission areas. The MH-60S is responsible for Combat Logistics, Naval Special Warfare, Anti-Surface Warfare, Airborne Mine Countermeasures and Combat Search and Rescue mission areas.



PRIMARY ROLE
Multi-mission Sea Control

CREW
Three or four people

SPECIFICATIONS
Length: 64 feet, 10 inches
Height: 17 feet
Weight: empty - 14,430 pounds
max gross - 23,500 pounds
Airspeed: 180 knots

Ceiling: 13,000 feet
Propulsion: 2-GE T700-GE-401
Range: 245 nautical miles

GREYHOUND *C-2A*

The C-2A Greyhound is a high wing, twin-engine Carrier Onboard Delivery (COD) aircraft. It can transport cargo between ship and shore in a matter of hours. The C-2 has a common wing with the Hawkeye but has a widened fuselage and a rear loading ramp. The C-2 fleet provides rapid airborne logistics capability to the carrier strike force across a full range of sea basing military operations.



PRIMARY ROLE
Carrier On-Board Delivery (COD) aircraft

CREW
Two people

SPECIFICATIONS
Length: 56 feet, 10 inches
Height: 17 feet, 2 inches
Wingspan: 80 feet, 7 inches
Weight: 57,500 pounds
Airspeed: Cruise - 260 knots
Maximum approx. 343 knots

Propulsion: Two Allison T56-A-425 turboprop engines, 4,600 shaft horsepower each
Ceiling: 30,000 feet

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