Platforms Overview

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Chinese Naval Forces

Shandong

Conventionally-powered aircraft carrier equipped with a ski-jump ramp

Country of origin	China
Entered service	2019
Crew	~ 2 000
Aircrew	~ 500
Flag staff	~ 126
Sea endurance	90 days (?)
Dimensions and displacement	
Length	315 m
Beam (waterline)	38 m
Beam (deck)	72 m
Draught	~ 11 m
Flight deck length	304.5 m
Flight deck width	72 m
Hangar deck length	153 m
Displacement, standard	~ 48 000 tons
Displacement, full load	~ 64 000 tons
Propulsion and speed	
Speed	31 knots
Range	25 928 km at 14 knots
Propulsion	8 x steam boilers, 4 x steam turbines (combined output 200 000 shp), delivering power to 4 shafts
Aircraft	
Airwing	up to 44 aircraft and helicopters
Fixed wing	32 x J-15 series fighters
Helicopters	6 x Z-18F, 4 x Z-18J, 2 x Z-9C
Armament	
Artillery	3 x Type 1130 30 mm CIWS
Missiles	3 x HHQ-10 SAM launchers

Source: Military-Today.com

Renhai

Large, multi-mission surface combatant capable of land attack, anti-air, anti-ship, and anti-submarine operations.

Source: Military-Today.com

Country of origin	China
Entered service	2019
Crew	280 ~ 300 men
Sea endurance	?
Dimensions and displacement	
Length	180 m
Beam	20 m
Draught	6.6 m
Displacement, standard	?
Displacement, full load	12 000 - 13 000 tons
Propulsion and speed	
Speed	~ 30 knots
Range	9 300 km
Propulsion	COGAG propulsion system with 4 QC-280 gas turbines (28 MW each) and 6 QD-50 gas turbines (5 MW each)
Airwing	
Helicopters	2 x Z-18F
Armament	
Artillery	1 x 130 mm dual-purpose gun, 1 x 30 mm CIWS
Missiles	A 64- and 48-cell VLS for HHQ-9 long-range air defense missiles, JY-18 anti-ship missiles, CJ-10 land attack missiles, CT-5 anti-submarine missiles, 1 x HHQ-10 short-range air defense missile system
Torpedoes	Unspecified torpedoes
Other	Anti-submarine rocket launchers

Luyang-III

Multi-mission surface combatant (destroyer) capable of anti-air, anti-ship, and anti-submarine operations.

Country of origin	China
Entered service	2014
Crew	280 men
Sea endurance	?
Dimensions and displacement	
Length	156 m
Beam	18 m
Draught	6.5 m
Displacement, standard	?
Displacement, full load	7 500 tons
Propulsion and speed	
Speed	30 knots
Range	?
Propulsion	CODOG propulsion with two gas turbines and two diesel engines
Airwing	
Helicopters	1 x Ka-28 or Z-9C
Armament	
Artillery	1 x 130 mm, 1 x 30 mm CIWS
Missiles	Two 32-cell VLS for surface-to-air, surface-to-surface, anti-ship and anti-submarine missiles, HHQ-10 launcher with short-range air defense missiles.
Torpedoes	torpedo tubes
Other	ASW rocket launchers

Source: Military-Today.com

Jiangkai

Multi-mission surface combatant (frigate) capable of anti-air, anti-ship, and anti-submarine operations.

Source: Military-Today.com

Country of origin	China
Entered service	2008
Crew	165 men
Sea endurance	?
Dimensions and displacement	
Length	134 m
Beam	16 m
Draught	~ 6 m
Displacement, standard	3 600 tons
Displacement, full load	4 053 tons
Propulsion and speed	
Speed	at least 28 knots
Range	~ 14 500 km
Propulsion	Diesel engines 4 x 7 600 shp (25 320 shp total)
Airwing	
Helicopters	1 x Kamov Ka-28 or Harbin Z-9C
Armament	
Artillery	1 x PJ26 76 mm gun, 2 x Type 730 30 mm seven-barrel close-in weapon systems
Missiles	32-cell vertical launch system for HQ-16 surface-to-air missiles, 2 x quadruple launchers for YJ-83 anti-ship cruise missiles
Torpedoes	2 x triple 324 mm YU-7 anti-submarine torpedo launchers
Other	2 x six-tube anti-submarine rocket launchers (36 rockets total), 2 x 726-4 eighteen-tube decoy rocket launchers

Shang Class

Nuclear-powered fast attack submarine.

Country of origin	China
Entered service	2006
Crew	100 men
Diving depth (operational)	?
Diving depth (maximum)	400 m
Sea endurance	80 days
Dimensions and displacement	
Length	107 m
Beam	11 m
Draught	7.5 m
Surfaced displacement	?
Submerged displacement	~ 6 000 tons
Propulsion and speed	
Surfaced speed	?
Submerged speed	30 knots
Propulsion	?
Armament	
Missiles	YJ-82 anti-ship missiles
Torpedoes	6 x 533 mm torpedo tubes

Source: Military-Today.com

Song Class

Diesel-powered attack submarine.

Country of origin	China
Entered service	1999
Crew	60 men
Diving depth (operational)	?
Diving depth (maximum)	?
Sea endurance	?
Dimensions and displacement	
Length	74.9 m
Beam	8.4 m
Draught	7.3 m
Surfaced displacement	1 700 tons
Submerged displacement	2 250 tons
Propulsion and speed	
Surfaced speed	15 knots
Submerged speed	22 knots
Diesel engines	4 x 6 090 hp
Electric motors	1 x ?
Armament	
Missiles	YJ-82 anti-ship missiles
Torpedoes	6 x 533 mm bow tubes for Yu-4 and Yu-1 torpedoes
Other	mines in place of torpedoes

Source: Military-Today.com

Type 75 Assault Ship

Amphibious ship capable of carrying a battalion sized landing team.

Country of origin	China
Entered service	2021
Crew	~ 1 000 men
Sea endurance	?
Dimensions and displacement	
Length	250 m
Beam	30 m
Draught	8.5 m
Displacement	~ 35 000 tons
Propulsion and speed	
Speed	~ 20 knots
Propulsion	diesel engines
Cargo	
Troops	~ 1 200 marines
Troops (surge capacity)	~ 1 800 marines
Vehicles	~ 45 tanks
Landing craft	
Landing craft	at least 2 x Type 726A hovercraft or landing craft
Airwing	
Fixed wing	-
Helicopters	around 30
Armament	
Artillery	2 x H/PJ-11 close-in weapon systems
Missiles	4 x HHQ-10 short-range air defense missile systems

Source: Military-Today.com

Chinese Air Forces

J-11

ISR RPA

Source: Military-Today.com

J-20

5th generation multi-role stealth fighter.

Country of origin	China
Entered service	2017
Crew	1 men
Dimensions and weight	
Length	~ 23 m
Wing span	~ 14 m
Height	~ 6 m
Weight (empty)	?
Weight (maximum take off)	34 ~ 36 t
Engines and performance	
Engines	2 x Xian WS-15
Traction (dry / with afterburning)	?
Maximum speed	~ 2 700 km/h
Service ceiling	~ 20 km
Range	~ 4 500 km
Armament	
Cannon	?
Missiles	air-to-air missiles (AAM; PL-12, PL-15 – PL-21)
Bombs	precision-guided munitions (PGM; LS-6/50, LS-6/100)

Source: Military-Today.com

J-16

4th generation multi-role fighter based on J-11

Country of origin	China
Entered service	2013
Crew	2
Dimensions and weight	
Length	21.9 m
Wing span	14.7 m
Height	6.36 m
Weight (empty)	17.7 t
Weight (maximum take off)	35 t
Engines and performance	
Engines	2 x WS-10B turbofans
Traction (dry / with afterburning)	2 x 96 / 145 kN
Maximum speed	2 963 km/h
Service ceiling	20 km
Range	3 000 km
Armament	
Cannon	1 x 30 mm cannon (150 rounds)
Missiles	PL-9, PL-10, PL-12, PL-15 air-to-air missiles, various anti-ship and anti-radiation and cruise missiles
Bombs	free-fall, laser-guided and satellite-guided bombs
Other	pods with unguided rockets

Source: Military-Today.com

J-11

4th generation multi-role fighter based on Su-27

Country of origin	China
Entered service	1998
Crew	1 men
Dimensions and weight	
Length	21.9 m
Wing span	14.7 m
Height	5.92 m
Weight (empty)	16.38 t
Weight (maximum take off)	33 t
Engines and performance	
Engines	2 × Lyulka AL-31F or Woshan WS-10A "Taihang" turbofans
Traction (dry / with afterburning)	75.22 / 123 kN
Maximum speed	~ 2 500 km/h
Service ceiling	19 km
Ferry range	3 530 km
Combat radius	1 500 km
Armament	
Cannon	1 x 23 mm or 30 mm cannon
Missiles	PL-12 medium-range air-to-air missiles; PL-7, PL-8, PL-9, AIM-9L/M short-range air-to-air missiles
Bombs	free-fall cluster bombs

Source: Military-Today.com

J-10

4th generation multi-role fighter based on Saab Viggen.

Country of origin	China
Entered service	2004
Crew	1 men
Dimensions and weight	
Length	15.5 m
Wing span	9.7 m
Height	?
Weight (empty)	8.3 t
Weight (maximum take off)	18 t
Engines and performance	
Engines	1 x Lyulka-Saturn AL-31FN turbofan
Traction (dry / with afterburning)	1 x 79.43 / 122.58 kN
Maximum speed	Mach 2.2
Service ceiling	?
Ferry range	?
Combat radius	?
Armament	
Cannon	23 mm cannon
Missiles	PL-12 and PL-8 air-to-air missiles
Bombs	free-fall bombs, 500 kg laser-guided bombs
Other	pods with 90 mm unguided rockets

Source: Military-Today.com

J-7

Chinese fighter based on MiG-21

Country of origin	China
Entered service	1981
Crew	1 men
Dimensions and weight	
Length	21.59 m
Wing span	9.34 m
Height	5.41 m
Weight (empty)	10.3 t
Weight (maximum take off)	15.2 t
Engines and performance	
Engines	2 x Liyang (LMC) Wopen-13B II turbojets engines
Traction (dry / with afterburning)	2 x 47.1 / 68.7 kN
Maximum speed	2 337 km/h
Service ceiling	18 km
Combat radius	600 km
Armament	
Cannon	1 x 23 mm cannon with 200 rounds
Missiles	PL-2/3/5/7/9 or R-27R1 air-to-air missiles, possibly C-801 anti-ship missiles
Bombs	250- 500- and 1 000 kg free-fall bombs
Other	Pods with 57 mm unguided rocket

Source: Military-Today.com

H-6

Chinese bomber based on Soviet Tu-16

Country of origin	China
Entered service	2009
Crew	4 men
Dimensions and weight	
Length	~ 34 m
Wing span	~ 33 m
Height	~ 10 m
Weight (empty)	~ 35 t
Weight (maximum take off)	?
Engines and performance	
Engines	2 x Saturn D-30KP-2 turbofan
Traction	?
Maximum speed	?
Service ceiling	?
Ferry range	?
Range	?
Combat radius	3 500 km
Armament	
Missiles	6 x CJ-10A land attack cruise missiles, YL-12 anti-ship missiles

Source: Military-Today.com

Y-8Q

Medium-range anti-submarine warfare platform

Source: Military-Today.com

Country of origin	China
Entered service	1981
Crew	5 men
Dimensions and weight	
Length	34 m
Wing span	38 m
Height	11.16 m
Weight (empty)	35.49 t
Weight (maximum take off)	61 t
Engines and performance	
Engines	4 x WJ-6 turboprops
Engine power	4 x 4 250 shp
Maximum speed	660 km/h
Cruising speed	550 km/h
Service ceiling	10.4 km
Range	5 615 km
Range (with maximum fuel)	?
Range (with maximum payload)	~ 3 600 km
Ferry range	?
Payload	
Maximum payload	20 t
Troops	about 96 troops or 82 paratroops up to 80 injured soldiers with medical attendants
Vehicles	?
Cargo compartment dimensions	13.5 x 3 x 2.4 m
Armament	
Cannon	2 x 23 mm

KJ-500

Airborne early warning and command and control platform

Country of origin	China
Entered service	2012
Crew	4 men
Dimensions and weight	
Length	36 m
Wing span	40 m
Height	11.3 m
Weight (empty)	39 t
Weight (maximum take off)	77 t
Engines and performance	
Engines	4 x WJ-6 series turboprops
Engine power	4 x 5 100 shp
Maximum speed	?
Cruising speed	600 ~ 650 km/h
Service ceiling	10.4 km
Range	~ 5 000 km
Range (with maximum fuel)	?
Range (with maximum payload)	?
Ferry range	~ 8 000 km
Flight endurance	12 hours
Payload	
Maximum payload	25 t
Standard payload	106 passengers, 132 paratroopers, 72 stretchers, or 2 x ZLC 2000 airborne combat vehicles
Cargo compartment dimensions	16.2 x 3.2 x 2.35 m

Source: military-today.net, Airliners.net

Chinese Rocket Forces

DF-21C

Medium range ballistic missile capable of carrying nuclear and conventional warheads.

Country of origin	China
Entered service	2012 (?)
Crew	~ 5 men
Dimensions and weight	
Weight	?
Length	?
Width	?
Height	?
Missile	
Missile length	~ 10.7 m
Missile diameter	?
Missile launch weight	~ 15 t
Warhead weight	?
Warhead type	Conventional, or possibly nuclear
Range of fire	over 2 000 km
CEP	~ 30 m
Mobility	
Engine	Deutz diesel
Engine power	544 hp
Maximum road speed	70 km/h
Range	650 km
Maneuverability	
Gradient	40%
Side slope	20%
Vertical step	0.4 m
Trench	2.5 m
Fording	1.2 m

Source: military-today.net

DF-26

Intermediate range ballistic missile capable of carrying nuclear and conventional warheads

Country of origin	China
Entered service	?
Crew	5 men (?)
Dimensions and weight	
Weight	?
Length	?
Width	?
Height	?
Missile	
Missile length	~ 14 m
Missile diameter	~ 1.4 m
Missile launch weight	~ 20 t
Warhead weight	1.2 ~ 1.8 t
Warhead type	Nuclear and possibly conventional
Range of fire	3 000 ~ 4 000 km
CEP	?
Mobility	
Engine	Deutz diesel (?)
Engine power	217 hp (?)
Maximum road speed	65 km/h
Range	~ 800 km

Source: military-today.net

Chinese Air Defense Forces

HQ-9

Long range surface to air missile system

Country of origin	China
Entered service	1997 (?)
Missile	
Missile length	6.8 m
Missile diameter	0.7 m
Missile weight	1 300 kg
Warhead weight	180 kg
Warhead type	HE-FRAG
Maximum range	125 km
Maximum altitude	27 km

Source: military-today.net

HQ-15

Short range surface to air missile system based on Russian S-300

Mobility and Role	Ground-based/road-mobile; short-range air and missile defense
Interceptor and Range	5V55K missile (45 km), 5V55R missile (75 km), 48N6 missile (150 km), 48N6E2 missile (200 km)

Source: missile defense agency

United States Naval Forces

Nimitz Class

Nuclear-powered aircraft carrier with multi-purpose air wing

Source: Military-Today.com

Country of origin	United States
Entered service	1986
Crew	3 184 men
Aircrew	2 080 men
Flag staff	70 men
Dimensions and displacement	
Length	317 m
Beam	43 m
Draught	11.3 m
Flight deck length	332.9 m
Flight deck width	76.8 m
Displacement, full load	over 102 000 tons
Propulsion and speed	
Speed	over 35 knots
Nuclear reactors	2 x ? MW
Steam turbines	2 x 208 MW
Aircraft	
Fixed wing	90 fixed wing and helicopters
Helicopters	

America-Class LHA

Amphibious ship with embarked Marine air group

Source: Military-Today.com

Country of origin	United States
Entered service	2014
Crew	1 060 men
Sea endurance	?
Dimensions and displacement	
Length	257 m
Beam	32 m
Draught	?
Displacement, standard	?
Displacement, full load	45 000 tons
Propulsion and speed	
Speed	24 knots
Gas turbines	2 x GE LM 2500+
Cargo	
Troops	1 700 men
Aircraft	
Fixed wing	F-35B
Helicopters	AH-1Z Viper, AH-1W Super Cobra, CH-53 Sea Stallion, UH-1Y Huey, SH-60 Sea Hawk, MH-60 Nighthawk, V-22 Osprey
Armament	
Artillery	2 x 20 mm Phalanx CIWS, 3 x Mk.38 cannons
Missiles	2 x RAM launchers, 2 x ESSM launchers

San Antonio-LPD

Amphibious ship with embarked Marine ground units

Country of origin	United States
Entered service	2006
Crew	497 men
Sea endurance	?
Dimensions and displacement	
Length	208.4 m
Beam	31.9 m
Draught	7 m
Displacement, standard	?
Displacement, full load	25 300 tons
Propulsion and speed	
Speed	22 knots
Range	?
Propulsion	4 x diesels delivering 40 000 shp to two shafts
Cargo	
Troops (normal)	699 men
Troops (surge capacity)	800 men
Vehicles	?
Cargo	?
Landing craft	
Landing craft	2 x LCAC or 1 x LCU
Aircraft	
Helicopters	2 x CH-53 Sea Stallions or 4 x MH-60S Knighthawks or 2 x MV-22 Ospreys or 4 x UH-1N Twin Hueys
Armament	
Artillery	2 x Bushmaster Mk.46 30 mm CIWS
Missiles	Mk.41 VLS for two octuple Sea Sparrow systems and 64 missiles, 2 x Mk.31 RAM launchers

Source: Military-Today.com

Arleigh Burke class Destroyer

Multi-mission surface combatant capable of anti-surface, anti-air, anti-submarine, and anti-ballistic missile operations

Source: Navy.com

Country of origin	United States
Entered service	1991
Crew	303 - 327 men
Sea endurance	?
Dimensions and displacement	
Length	142.1 m
Beam	18.3 m
Draught	7.6 m
Displacement, standard	8 300 tons
Displacement, full load	9 200 tons
Propulsion and speed	
Speed	32 knots
Range	8 100 km at 20 knots
Propulsion	4 x General Electric LM2500 gas turbines delivering 105 000 shp to two shafts
Aircraft	
Helicopters	2 x Sikorsky SH-60 Seahawk
Armament	
Artillery	1 x 127 mm DP gun, 2 x 20 mm Phalanx CIWS mountings
Missiles	2 x quadruple Harpoon anti-ship missile launchers, 2 x Mk.41 vertical launch system (90 Standard SM-2MR, ASROC and Tomahawk missiles)
Torpedoes	2 x tripple 324 mm torpedo tubes for Mk.46/50 torpedoes

Virginia Class

Nuclear powered attack submarine capable of anti-surface, anti-submarine, and land-attack operations

Source: Military-Today.com

Country of origin	United States
Entered service	2004
Crew	134 men
Diving depth (operational)	over 250 m
Diving depth (maximum)	up to 500 m
Sea endurance	?
Dimensions and displacement	
Length	115 m
Beam	10.3 m
Draught	9.3 m
Surfaced displacement	7 800 tons
Submerged displacement	?
Propulsion and speed	
Surfaced speed	25 knots
Submerged speed	32 knots
Nuclear reactors	1 x S9G
Steam turbines	2 x ?
Armament	
Missiles	12 x vertical launch system tubes for UGM-109 Tomahawk missiles
Torpedoes	4 x 533 mm bow tubes for Mk.48 torpedoes
Other	smart mines in place of torpedoes

Los Angeles Class

Nuclear powered attack submarine capable of anti-surface, anti-submarine, and land attack operations

Source: Military-Today.com

Country of origin	United States
Entered service	1976
Crew	133 men
Diving depth (operational)	450 m
Diving depth (maximum)	750 m
Dimensions and displacement	
Length	110.34 m
Beam	10.06 m
Draught	9.75 m
Surfaced displacement	6 082 tons
Submerged displacement	6 927 tons
Propulsion and speed	
Surfaced speed	18 knots
Submerged speed	32 knots
Nuclear reactors	1 x ? MW
Steam turbines	2 x 26 MW
Armament	
Missiles	12 x external tubes for Tomahawk missiles
Torpedoes	4 x 533 mm torpedo tubes for 26 torpedoes or missiles

Seawolf Class

Advanced nuclear powered attack submarine capable of anti-surface, anti-submarine, and land attack operations

Source: Military-Today.com

Country of origin	United States
Entered service	1997
Crew	134 men
Diving depth (operational)	487 m
Diving depth (maximum)	610 m
Dimensions and displacement	
Length	107.6 m
Beam	12.9 m
Draught	10.7 m
Surfaced displacement	8 080 tons
Submerged displacement	9 142 tons
Propulsion and speed	
Surfaced speed	18 knots
Submerged speed	35 knots
Nuclear reactors	1 x ? MW
Steam turbines	2 x 38.7 MW
Armament	
Missiles and Torpedoes	8 x 660 mm torpedo tubes for 50 Mk.48 torpedoes, Sub Harpoon anti-ship missiles or Tomahawk cruise missiles
Other	up to 100 mines in place of torpedoes or missiles

F-35C

Carrier-based, 5th generation multi-role fighter

Source: Military-Today.com

Country of origin	United States
Entered service	2019
Crew	1 men
Dimensions and weight	
Length	15.7 m
Wing span	13.1 m
Height	4.48 m
Weight (empty)	15.79 t
Weight (maximum take off)	31.8 t
Engines and performance	
Engines	1 x Pratt & Whitney F135-PW-400 turbofan
Traction (dry / with afterburning)	125 / 191 kN
Maximum speed	1 931 km/h
Service ceiling	~ 18 km
Range	2 200 km
Combat radius	1 100 km
Armament	
Cannon	podded 25 mm cannon (with 220 rounds of ammunition)
Missiles	AIM-9X Sidewinder, AIM-120 AMRAAM, AIM-132 ASRAAM, JSOW
Bombs	GBU-31/32 JDAM, GBU-12 Paveway laser-guided bombs, free-fall bombs

F-18

Carrier based, 4th generation multi-role fighter

Source: Military-Today.com

Country of origin	United States
Entered service	1999
Crew	1 men
Dimensions and weight	
Length	18.31 m
Wing span	13.62 m
Height	4.88 m
Weight (empty)	13.86 t
Weight (maximum take off)	29.93 t
Engines and performance	
Engines	2 x General Electric F414-GE-400 turbofans
Traction (with afterburning)	2 x 97.86 kN
Maximum speed	1 915 km/h
Combat radius	1 095 km
Armament	
Cannon	1 x 20 mm M61A2 Vulcan rotary six-barrel cannon
Missiles	AIM-120 AMRAAM, AIM-7 Sparrow and AIM-9 Sidewinder air-to-air missiles. AGM-65 Maverick, AGM-84E SLAM, AGM-62 Walleye air-to-ground missiles. AGM-88 HARM anti-radiation missile, AGM-84 Harpoon anti-ship missile
Bombs	GBU-10/12/16 guided bombs, Mk.80 series free fall bombs, CBU-59 cluster bombs and free fall nuclear bombs

E-2D

Carrier based, airborne early warning radar platform

Country of origin	United States
Entered service	2014
Crew	5 men
Dimensions and weight	
Length	17.6 m
Wing span	~ 24.5 m
Height	~ 5.8 m
Weight (empty)	18.3 t
Weight (maximum take off)	~ 24.5 t
Engines and performance	
Engines	2 x Rolls-Royce T56-A-427A turboprops
Traction (dry / with afterburning)	2 x 5 100 hp
Maximum speed	over 555 km/h
Service ceiling	11.2 km
Flying range	?
Combat radius	?
Ferry range	?
Endurance	over 6 hours

Source: Military-Today.com

MQ-25

Carrier based, unmanned aerial refueling platform

- Boeing is bringing the future of unmanned aircraft carrier aviation to the U.S. Navy with the MQ-25.
- An unmanned aircraft system designed for the U.S. Navy mission, it will provide the needed robust refueling capability, thereby extending the combat range of deployed Boeing F/A-18 Super Hornet, Boeing EA-18G Growler, and Lockheed Martin F-35C fighters.
- Our aircraft is ready for the mission, the flight deck and the U.S. Navy. Boeing has been delivering carrier aircraft to the Navy for more than 90 years – we know the flight deck.
- The MQ-25 brings the right combination of refueling, autonomy, and seamless carrier deck integration to meet the U.S. Navy's goals.

Source: boeing.com

P-8

Land-based, ocean surveillance, anti-surface, anti-submarine platform

Source: Military-Today.com

Country of origin	United States
Entered service	2012
Crew	9 men
Dimensions and weight	
Length	39.47 m
Wing span	35.7 m
Height	12.83 m
Weight (empty)	62.7 t
Weight (maximum take off)	85.3 t
Engines and performance	
Engines	2 x CFM56-7B turbofans
Traction	2 x 120 kN
Maximum speed	907 km/h
Cruising speed	815 km/h
Service ceiling	12.5 km
Range	3 700 km
Ferry range	7 500 km
Combat radius	2 222 km
Endurance	4 h for ASW mission
Armament	
Torpedoes	Mk.54 anti-submarine torpedoes
Missiles	Harpoon, SLAM or AGM-65 Maverick, AIM-9 Sidewinder or AIM-120 AMRAAM
Bombs	free-fall bombs
Other	depth charges

United States Air Forces

F-35A

5th generation multi-role fighter

Source: Military-Today.com

Country of origin	United States
Entered service	2016
Crew	1 men
Dimensions and weight	
Length	15.39 m
Wing span	10.66 m
Height	4.36 m
Weight (empty)	13.15 t
Weight (maximum take off)	31.8 t
Engines and performance	
Engines	1 x Pratt & Whitney F135-PW-100 turbofan
Traction (dry / with afterburning)	125 / 190 kN
Maximum speed	1 930 km/h
Service ceiling	~ 18 km
Ferry range	~ 2 200 km
Combat radius	1 088 km
Armament	
Cannon	1 x GAU-22/A 25 mm cannon
Missiles	AIM-9X Sidewinder, AIM-120 AMRAAM, AIM-132 ASRAAM, JSOW, Brimstone, Meteor
Bombs	GBU-31/32 JDAM, WCMD, Paveway laser-guided bombs, free-fall bombs

F-22

5th generation air superiority fighter

Source: Military-Today.com

Country of origin	United States
Entered service	2003
Crew	1 men
Dimensions and weight	
Length	18.92 m
Wing span	13.56 m
Height	5 m
Weight (empty)	14.36 t
Weight (maximum take off)	27.21 t
Engines and performance	
Engines	2 x Pratt & Whitney F119-P-100 turbofans
Traction (dry / with afterburning)	2 x ? / 155.69 kN
Maximum speed	> 2 500 km/h
Range (with 2 external tanks)	2 950 km
Combat radius	760 km
Ferry range	3 200 km
Armament	
Cannon	1 x M61A2 20 mm cannon
Missiles	4 x AIM-120C AMRAAMs, 4 x AIM-9M/X Sidewinder air-to-air missiles. GBU-32 joint directed air munition, AGM-88 HARM anti-radiation missiles
Bombs	GBU-22 Paveway III laser guided bombs

F-15EX

4th generation multi-role fighter

Source: Military-Today.com

Country of origin	United States
Entered service	?
Crew	1 or 2 men
Dimensions and weight	
Length	63.8 m
Wing span	13.05 m
Height	5.65 m
Weight (empty)	20.41 t
Weight (maximum take off)	36.7 t
Engines and performance	
Engines	2 x General Electric F110-GE-129 turbofan engines
Traction (dry / with afterburning)	2 x ? / 131 kN
Maximum speed	3 017 km/h
Service ceiling	~ 18 km
Ferry range	?
Combat radius	~ 2 000 km
Armament	
Cannon	1 x M61 20 mm cannon
Missiles	up to 16 AIM-120 AMRAAM air-to-air missiles, 4 x AIM-9X Sidewinder short-range air-to-air missiles, 2 x AGM-88 HARM anti-radiation missiles.
Bombs	GBU-31/32 JDAM, small free-fall bombs

F-16C

4th generation multi-role fighter

Country of origin	United States
Entered service	1975
Crew	1 men
Dimensions and weight	
Length	~ 15 m
Wing span	~ 10 m
Height	~ 5 m
Weight (empty)	~ 8.6 t
Weight (maximum take off)	12 ~ 19 t
Engines and performance	
Engines	1 x Pratt & Whitney F110-GE-129 turbofan
Traction (dry / with afterburning)	~ 80 / 131.48 kN
Maximum speed	~ 2 120 km/h
Service ceiling	~ 15.2 km
Ferry range (with drop tanks)	4 215 km
Combat radius	~ 550 km
Armament	
Cannon	1 x M61A1 20 mm cannon
Missiles	AIM-120B, AIM-9L/M/P/X air-to-air missiles; AGM-65 Maverick air-to-surface missiles, AGM-154 JSOW, AGM-185 JASSM, AGM-88 HARM anti-radiation missiles, Kongsberg Penguin Mk.3 anti-ship missiles
Bombs	CBU-103/104/105, GBU-31/32 JDAM bombs, DASA DWS 39 gliding submunitions dispenser

Source: Military-Today.com

E-3

Airborne early warning radar and aerial C2 platform

Country of origin	United States
Entered service	1977
Crew	30 men
Dimensions and weight	
Length	46.61 m
Wing span	44.42 m
Height	12.73 m
Weight (empty)	77.99 t
Weight (maximum take off)	147.42 t
Engines and performance	
Engines	4 x Pratt & Whitney TF33-P100A turbofans
Traction	4 x 93.41 kN
Maximum speed	853 km/h
Service ceiling	8.8 km
Combat radius	1 612 km
Armament	
Missiles	4 x AIM-9L/M Sidewinder short range air-to-air missiles for self-defense

Source: Military-Today.com

C-17

Long range, strategic mobility platform

Country of origin	United States
Entered service	1993
Crew	3 men
Dimensions and weight	
Length	53.04 m
Wing span	51.76 m
Height	16.79 m
Weight (empty)	125.6 t
Weight (maximum take off)	265.3 t
Engines and performance	
Engines	4 x Pratt & Whitney F117-PW-100 turbofans
Traction	4 x 181.04 kN
Maximum speed	816 km/h
Service ceiling	10.9 km
Ferry range	8 704 km
Range (with typical payload)	4 445 km
Payload	
Maximum payload	76.6 t
Typical load	102 troops/paratroops on stowable seats in the cabin, 48 litters, three AH-64 Apache helicopters or air-droppable platforms up to a weight of 49.8 t

Source: Military-Today.com

KC-46

Aerial refueling platform

Source: boeing.com

KC-135

Aerial refueling platform

Source: Military-Today.com

Country of origin	United States
Entered service	1957
Crew	3 - 4 men
Dimensions and weight	
Length	41.53 m
Wing span	40 m
Height	12.7 m
Weight (empty)	45 t
Weight (maximum take off)	146 t
Engines and performance	
Engines	4 x Pratt & Witney J57 turbofans
Engines (KC-135R)	4 CFM International CFM56 turbofans
Traction (KC-135R)	4 x 96.2 kN
Maximum speed (KC-135R)	933 km/h
Cruising speed (KC-135R)	853 km/h
Service ceiling (KC-135R)	15.2 km
Range with 68 t of fuel (KC-135R)	2 400 km
Ferry range (KC-135R)	17 766 km
Fuel and cargo	
Fuel load	up to 90 700 kg
Passengers	up to 80 men
Maximum payload	up to 37 600 kg

B-1

Long range, strategic bomber

Source: Military-Today.com

Country of origin	United States
Entered service	1986
Crew	4 men
Dimensions and weight	
Length	44.81 m
Wing span	23.84 m swept 41.67 m spread
Height	10.36 m
Weight (empty)	87 t
Weight (maximum take off)	216.3 t
Engines and performance	
Engines	4 x General Electric F101-GE-102 turbofans
Traction (dry / with afterburning)	4 x 64.94 / 136.92 kN
Maximum speed	1 324 km/h
Range	12 000 km
Armament	
Missiles	12 x AGM-154 JSOWs, 24 x AGM-158 JASSMs
Bombs	Mk 82 free-fall bombs, Mk 62 Quickstrike mines, 12 x Mk 65 mines, 30 x CBU-87/89/97 submunitions dispensers or 30 x CBU-103/104/105 WCMDs. 24 x GBU-31 JDAMs

B-52

Old long range, strategic bomber

Country of origin	United States
Entered service	1955
Crew	5 men
Dimensions and weight	
Length	49.05 m
Wing span	56.39 m
Height	12.4 m
Weight (maximum take off)	229 t
Engines and performance	
Engines	8 x Pratt & Whitney TF33-P-3 turbofans
Traction (dry)	8 x 75.62 kN
Maximum speed	958 km/h
Service ceiling	16.7 km
Range	over 16 000 km
Armament	
Cannon	1 x 20 mm Vulcan six-barreled cannon in tail turret housing
Missiles	AGM-86C cruise missiles, AGM-142 Have Nap (Rafael Popeye) stand-off precision-guided attack missiles
Bombs	B61 or B83 free-fall thermonuclear bombs, conventional Mk.117 or Mk.83 free-fall bombs

Source: Military-Today.com

UCAV

Country of origin	United States
Entered service	1995
Crew (in ground station)	2 men
Dimensions and weight	
Length	8.22 m
Wing span	14.8 m
Height	2.1 m
Weight (empty)	512 kg
Weight (maximum take off)	1 020 kg
Engines and performance	
Engines	1 x Rotax 914F turboprop
Engine power	101 hp
Maximum speed	217 km/h
Cruising speed	130 - 165 km/h
Service ceiling	7.62 km
Range	1 100 km
Endurance (full load)	24 hours
Endurance (unloaded)	40 hours
Armament	
Missiles	2 x AGM-114 Hellfire anti-tank missiles, or AGM-176 Griffin air-to-ground missiles

Source: Military-Today.com

United States Army Forces

PAC-2

Medium range surface to air missile system

Country of origin	United States
Entered service	1990
Range	160 km
Number of missiles	4
Missile length	5.31 m
Missile diameter	0.87 m
Missile weight	912 kg
Warhead weight	91 kg
Warhead type	HE-FRAG
Altitude of fire	25 km

Source: military-today.net

PAC-3

Short range surface to air missile system (ballistic missile defense capable)

Country of origin	United States
Entered service	1995
Range	40 km
Number of missiles	16
Missile length	5.21 m
Missile diameter	?
Missile weight	312 kg
Warhead weight	?
Warhead type	HE-FRAG
Altitude of fire	20 km

Source: military-today.net

THAAD

Medium range surface to air missile system (ballistic missile defense capable)

Country of origin	United States
Entered service	2009
Crew	?
Missile	
Number of missiles	8
Missile length	6.17 m
Missile diameter	0.34 m
Missile weight	900 kg
Warhead type	-
Range of fire	150 ~ 200 km
Altitude of fire	25 km
Mobility	
Engine	Detroit Diesel 8V92TA diesel
Engine power	450 hp
Maximum road speed	91 - 100 km/h
Range	450 km
Maneuverability	
Gradient	60%
Side slope	30%
Vertical step	~ 0.6 m
Trench	~ 1.4 m
Fording	1.2 m

Source: military-today.net

M142

Long range surface to surface missile system

GLCM/LRHW markers represent future systems

Source: military-today.net

Country of origin	United States
Entered service	2005
Crew	3 men
Dimensions and weight	
Weight	10.88 t
Length	7 m
Width	2.4 m
Height	3.2 m
Armament	
Caliber	227 mm
Number of tubes	6
Rocket weight	307 kg
Warhead weight	120 kg
Firing range	32 km (basic rocket), 45 km (extended-range rocket) / 65-70 km (GMLRS) / 150 km (GMLRS-ER) / 300 km (ATACMS ballistic missile)
Full salvo duration	25 ~ 30 s
Reloading time	4-5 minutes
Mobility	
Engine	Caterpillar 3115 ATAAC 6.6-liter diesel
Engine power	290 hp
Maximum road speed	85 km/h
Range	480 km
Maneuverability	
Gradient	60%
Side slope	30%
Vertical step	~ 0.6 m
Trench	~ 1 m
Fording	0.9 m

United States Marine Corps Forces

F-35B

5th generation multi-role fighter

Source: Military-Today.com

Country of origin	United States
Entered service	2015
Crew	1 men
Dimensions and weight	
Length	15.39 m
Wing span	10.66 m
Height	4.36 m
Weight (empty)	14.65 t
Weight (maximum take off)	27.2 t
Engines and performance	
Engines	1 x Pratt & Whitney F135-PW-600 turbofan with Rolls-Royce vertical lift system
Traction (dry / with afterburning)	120 / 182 kN
Maximum speed	1 920 km/h
Service ceiling	~ 18 km
Range	1 666 km
Ferry range	?
Combat radius	833 km
Armament	
Cannon	optional pod with 25 mm cannon
Missiles	AIM-9X Sidewinder, AIM-120 AMRAAM, AIM-132 ASRAAM, JSOW, Brimstone, Meteor
Bombs	GBU-31/32 JDAM, WCMD, Paveway laser-guided bombs, free-fall bombs

MV-22

Medium range mobility platform

Source: Military-Today.com

Country of origin	United States
Entered service	2007
Crew	2 men
Dimensions and weight	
Length	17.47 m
Rotor diameter	11.58 m each
Wing span	15.52 m
Height	5.38 m
Weight (empty)	14.4 t
Weight (maximum take off)	27.4 t
Engines and performance	
Engines	2 x Allison T406-AD-400 turboshafts
Engine power	2 x 5 890 - 6 150 shp
Maximum cruising speed	500 km/h
Service ceiling	7.6 km
Range with payload	2 224 km
Range with auxiliary fuel tanks	3 568 km
Combat radius	680 km
Payload	
Maximum payload	9 t internally or 6.8 t externally
Passengers	24 troops or 12 litters plus attendants

KC-130

Aerial refueling platform

Country of origin	United States
Entered service	1998
Crew	3 men
Dimensions and weight	
Length	29.79 m
Wing span	40.41 m
Height	11.84 m
Weight (empty)	34.27 t
Weight (maximum take off)	79.38 t
Engines and performance	
Engines	4 x Rolls-Royce AE 2100D3 turboprops
Power	4 x 4 637 shp
Maximum speed	671 km/h
Cruising speed	643 km/h
Service ceiling	10.6 km
Service ceiling (without payload)	12.3 km
Range (with 18 t payload)	5 250 km
Ferry range	?
Payload	
Maximum payload	19 t
Troops	92 men
Vehicles	2-3 HMMWVs
Cargo compartment dimensions	12.5 x 3 x 2.74 m

Source: Military-Today.com

LCC/LCP NSM
Marine Corps Future Long Range Strike

NSM: Naval Strike Missile
LCC: Littoral Comat Company
LCP: Littoral Combat Platoon