



C-17 Airframe Specifications

GENERAL DESCRIPTION: The C-17 Globemaster III is a high-wing, four-engine, T-tailed military transport.

EXTERNAL DIMENSIONS

Wingspan to winglet tip	169.8 feet (51.76 m)
Length	174 feet (53.04 m)
Height at tail	55.1 feet (16.79 m)
Fuselage diameter	22.5 feet (6.86 m)

ENGINES

Four Pratt & Whitney PW2040 (military designation F117-PW-100) 40,440 pounds thrust each

CARGO COMPARTMENT

Cargo compartment crew	One loadmaster
Cargo floor length	68.2 feet (20.78 m)
Ramp length	19.8 feet (6.04 m)
Loadable width	18 feet (5.49 m)
Loadable height	12.3 feet (3.76m) under wingbox 14.8 feet (4.50m) aft of wingbox
Ramp to ground angle	9 degrees
Ramp capacity	40,000 lbs. (18,144 kg)
Aerial delivery system capacity	
Pallets	Eleven 463L pallets (including 2 on ramp)
Single load airdrop	60,000 pound platform (27,216 kg)
Sequential loads airdrop	110,000 pounds (49,895 kg) (60 feet of platforms) (18.29 m)
Cargo handling system	Eighteen 463L Pallets (including 4 on ramp)
Combat offload	All pallets from aerial delivery or cargo handling systems

SEATING

Sidewall (permanently installed)	54 (27 each side, 18 inches wide, 24 inch spacing center to center)
Centerline (stored on board)	48 (8 sets of six back-to-back)
Palletized (10-passenger pallets)	90 on 9 pallets, plus 54 passengers on sidewall seats

AEROMEDICAL EVACUATION

Litter stations (onboard)	Three (3 litters each)
Litter stations (additional kit)	Nine
Total capability (contingency)	36 litters, 102 ambulatory

COCKPIT

Flight crew	2 pilots
Observer positions	2
Instrument displays	2 full-time, all-function, head-up displays (HUD), 4 multi-function cathode-ray tube displays plus conventional instruments as backup
Navigation system	Digital electronics
Communication	Integrated radio management system
Flight controls system	Quad-redundant electronic flight control with mechanical actuated backup system

WING

Area	3,800 sq. ft. (353.03 sq. m)
Aspect Ratio	7.165
Wing sweep angle	25 degrees
Airfoil type	Supercritical
Flaps	Fixed-vane, double-slotted, simple-hinged

WINGLET

Height	8.92 feet (2.72 m)
Span	9.21 feet (2.81 m)
Area	35.85 sq. ft. (3.33 m)
Sweep	30 degrees
Angle	15 degrees from vertical

HORIZONTAL TAIL

Area	845 sq. ft. (78.50 sq. m)
Span	65 feet (19.81 m)
Aspect ratio	5.0
Sweep	27 degrees

LANDING GEAR

Main, type	Twin-strut tandem per side of aircraft, three wheels each strut
Width (outside to outside)	33.7 feet (10.27 m)
Tires	50x21-20
Nose, type	Single strut, steerable with dual wheels
Tires	40 x 16 - 14
Wheelbase	65.8 feet (20.06 m)