

C-27J Spartan Tactical Transport Aircraft



The C-27J Spartan is the perfect fixed-wing multi-purpose cargo aircraft for today's diverse missions. Extremely maneuverable and versatile, the rugged C-27J boasts the highest power-to-weight ratio in its class and the ability to perform 3.0g force maneuvers in the style of fighter aircraft, enabling tight turns and a rapid climb and descent. The C-27J can fly farther, faster and higher than any other twin engine military transport aircraft in its class.

The C-27J features the unique capability to vary cargo floor height and continuously adjust attitude, ensuring easy loading and unloading of large volume, high-density payloads without ground support equipment and also facilitating drive-in/out of vehicles so that they can be in use immediately.

The C-27J offers significantly more capability than any other aircraft in its class. Its large flight envelope allows it to carry out the most demanding tactical missions quickly, safely and effectively.

The C-27J's structural strength, power and system redundancy provide a high level of safety and an

unbeatable mission accomplishment rate. The C-27J has outstanding threat-avoidance capabilities, including a take-off ground run of about 1,900 feet at maximum take-off weight on an unpaved surface. In a tactical environment, the aircraft is capable of climbing to 10,000 ft in 3 minutes, descending from 10,000 ft in under 2.5 minutes, and can handle up to 3.0g forces. At its maximum landing weight, the C-27J has a ground roll of less than 1,115 ft.

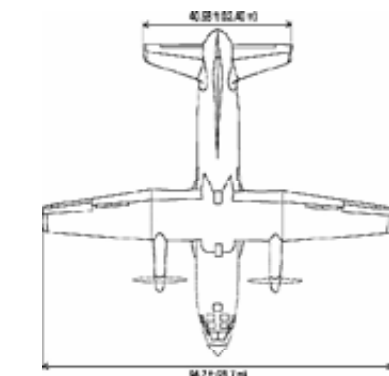
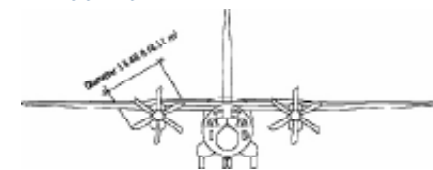
The C-27J is in service with the Air Forces of Greece, Italy, Lithuania and Bulgaria. The aircraft is also under production for the U.S. Army and Air Force's Joint Cargo Aircraft (JCA) program. The C-27J is the best selling twin-turboprop military tactical airlifter in the world, ordered by six air forces: Italian (12 aircraft), Greek (12, plus 3 options), Lithuanian (3), Bulgarian (5) and by the U.S. Army and U.S. Air Force (78), for a total of 110 aircraft. Furthermore, the C-27J has also been selected by the Romanian Air Force for 7 aircraft, with a contract currently under negotiation.

No other aircraft in its class can offer a solution with comparable range, payload, flexibility or reliability.

C-27J TECHNICAL DATA



Three View



Dimensions

Span:	94.2 ft/28.7 m
Length:	74.5 ft/22.7 m
Height:	31.6 ft/9.64 m
Wing Area:	269 ft ² /82 m ²
Aspect Ratio:	10

Weights

MTOW (basic/2.5 g):	67,241 lb/30,500 kg
MTOW (logistic/2.25 g):	70,107 lb/31,800 kg
Max. Landing Wt: At 6 fps sink rate:	67,241 lb/30,500 kg
At 10fps sink rate:	60,627 lb/27,500 kg
Max. Payload:	25,353 lb/11,500 kg
Fuel Capacity:	3,255 US gal/12,320 liters

Configuration and Loads

Troop Transport:	Up to 68 + 2 loadmasters
Paratroop Transport:	Up to 46 + 2 loadmasters
Cargo Transport:	Maximum payload of 25,353 lb/11,500 kg of palletized loads; 3 HCU-E (108" x 88") + 1 HCU-12E (54" x 88"); 6 HCU-12E (54" x 88") Wheeled and track-led vehicles, spare engines, etc.

Material

Air-dropping:	Up to 9 Tons Up to 12 A22 CDS Bundles Up to 5 Tons through LAPES Up to 6 Tons through Combat Offload
Medevac:	Up to 36 stretchers + 6 medical attendants

Powerplant

Engine:	2 Rolls-Royce AE 2100-D2 (4,637 shp)
Propeller:	2 Dowty R-391/6-132-F/10 six-blade, diameter 13.5 ft/4.11 m

Performance

Tactical Take-Off Ground Run (MTOW, ISA, S.L.):	1,903 ft/580 m
One Engine out Ceiling @ ISA, 95% MTOW:	4,500 ft/4,420 m
Maximum Service Ceiling:	30,000 ft/9,144 m
Maximum Cruise Speed:	325 KTAS
Landing Ground Roll (MLW normal, ISA, S.L.):	1,115 ft/340 m

Range (logistic operation)	
10,000 kg of payload:	1,000 nm/1,852 km
6,000 kg of payload:	2,300 nm/4,260 km
Ferry:	3,200 nm/5,926 km

Avionics

MIL-STD-1553B Digital Data Bus Architecture; Compatible with emerging Future Air Navigation System (FANS)

Communication

2 ARC-210VHF/UHF Radio; 2 HF Radio; 1 VHF/UHF Direction Finder (DF); Digital Audio Inter-Communication (ICS)

Navigation

Embedded GPS/INS; 2 TACAN (DME); 2 VOR/ILS/MB; Low Frequency ADF; 2 Distributed Air Data Systems (DADS); Dual Radar Altimeters

Radar System

Northrop Grumman AN/APN-241 Low Power Color Radar with the following modes of operation: Monopulse Ground Mapping with Doppler Beam; Sharpening, Weather and Turbulence Detection, Air Target Detection; Windshear Detection, Beacon mode for drop-zone identification

Other Equipment

Flight Management System; 2 Digital Autopilot – Flight Director System; IFF Transponder (Modes, Level 2); TCAS-II (Aural and Visual Identification); GCAS (Aural and Visual Special Alerts); Recording Sts (FDR-CVR-DS-DTU); Digital Map (Option); HUD (Option)