

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN



L-1011

Northrop Grumman's L-1011 carrier aircraft is a proven air launch platform modified to carry the Pegasus[®] air-launched space booster, the X-34 Reusable Launch Vehicle Technology Demonstrator, and able to carry complex and variable payloads. Northrop Grumman's L-1011 is a flexible, mobile platform that can be deployed worldwide. The L-1011 Engineering Team and Designated Engineering Representatives (DERS) are experienced in the analysis and completion of modifications with regard to flight test and airborne research projects.

System Features

Capable of carrying external payloads up to 52,000 lb. (23,000 kg) to an altitude of at least 42,000 ft (12,800 m) at an airspeed of at least Mach 0.82

Flight proven release mechanism for airdrop of experimental vehicles or dropable stores

Hook system is capable of attaching to an external adapter for airborne test equipment deleting the need for multiple external hard points to attach several sensors or experimental equipment

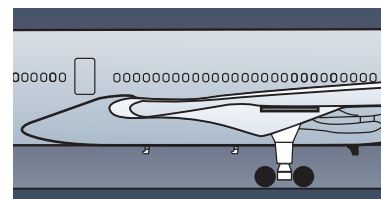
Large open cabin upper deck for flight test equipment and in flight research team

Fully equipped as an airborne test platform providing power, data, video monitoring and payload environmental conditioning

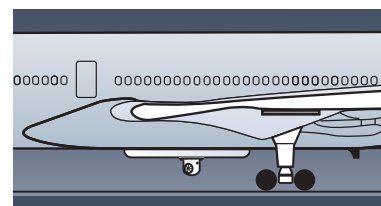
Certified for extended over water operations and Reduced Vertical Separation Minimums (RVSM), and flights into European airspace

Facts At A Glance

- Large Cabin for Flight Test Equipment
- Real-time Video Monitoring of External Payloads
- Aircraft Generated Electrical Power
 - 60 Hz and 400 Hz AC, 28 VDC, UPS Backup
- Nitrogen Purge for Temperature and Moisture Control
- Launch Panel Operator Station to Control Payload or for Airborne Test Monitoring
- Regulated and Filtered Payload Air Conditioning
- HF, VHF, UHF and SatCom Air to Ground Voice Communications, Aircraft GPS to Payload Link



External payload hook attachment system.



Representative external adapter and airborne test equipment.

Performance

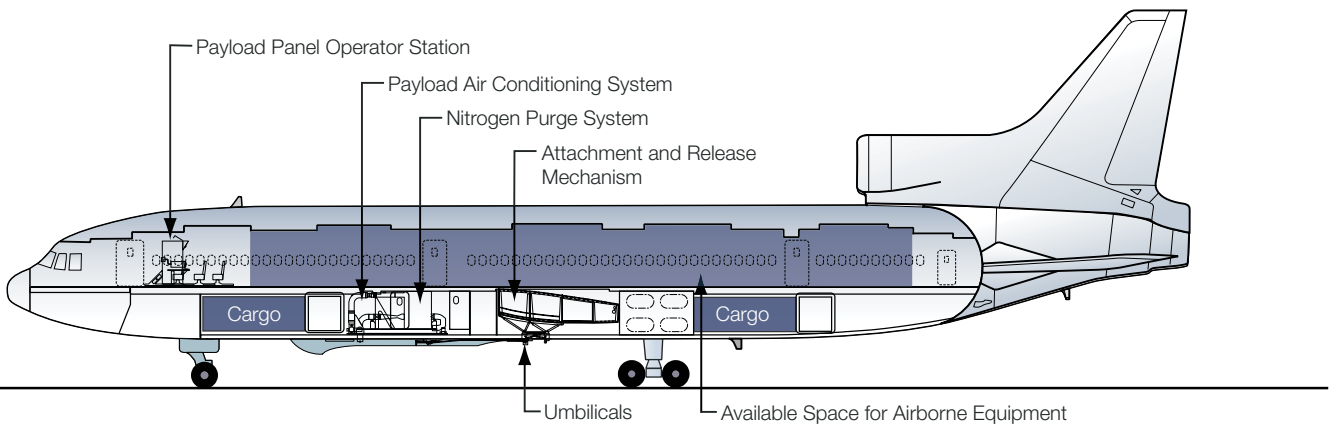
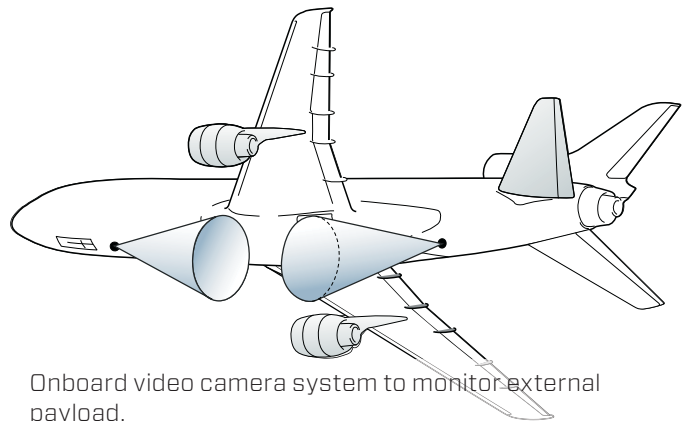
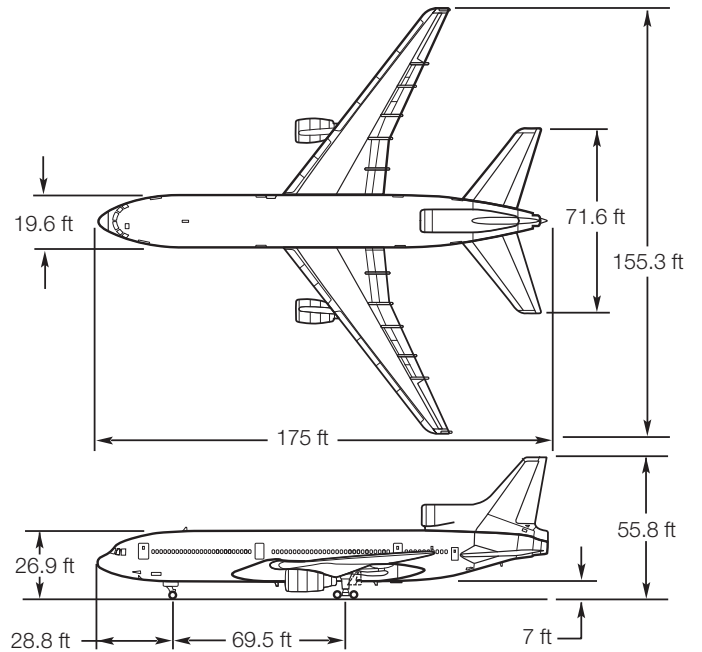
Mission Endurance: 10.5 hrs
 Ferry Range: 4,500 NM
 Maximum Altitude: 43,000 ft
 Maximum Speed: 0.86 Mach

Specifications

Payload External Envelope:
 57 ft (L) x 5 ft (W) x 5 ft (H)
 17.37 m (L) x 1.52 m (W) x
 1.52 m (H)

Payload Maximum Weight:
 - 52,000 lb.
 - 23,580 kg

Cabin Average Speech
 Interference Level (SIL): 62 dB
 Cabin Overall Sound
 Pressure Level (OASPL): 60 dB
 Cabin Floor Width: 18.3 ft
 Cabin Ceiling Height: 7.9 ft
 Cabin Floor Space: 2,452 ft²



More Information

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 DS18016_053118

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