

The C-5M Super Galaxy carries more than any other strategic airlifter at a fraction of the cost. With more thrust, shorter takeoff roll and faster climb rate, the C-5M gets troops and supplies where they are needed faster and farther than any other airlifter in service today.



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C-5M Super Galaxy
Redefining Strategic Airlift



M11-1132343B001

Validated Performance

With unprecedented airlift capabilities, the C-5M opens a new chapter in rapid global response. In two flights operating out of Dover AFB, Delaware, a joint U.S. Air Force and Lockheed Martin crew set 42 world aviation records, demonstrating the C-5M's ability to redefine global airlift.

In deployed airlift operations, the C-5M is demonstrating a new era of highly capable, reliable and affordable airlift. With departure reliability rates greater than 90 percent and payload increases of 20 percent over legacy C-5s, the Super Galaxy is delivering more to the warfighter on every mission. With a substantial improvement in unrefueled range, the C-5M is overflying traditional en route fuel stops, enabling a reduction in fuel consumption by as much as 20 percent.



Enhanced Capability

The C-5M incorporates more than 70 aircraft improvements, including new GE CF6-80C2 engines that support a 22 percent increase in thrust, 58 percent greater climb rate, tenfold increase in engine reliability and Stage 4 noise and emission compliance.

The state-of-the-art glass cockpit incorporates multifunctional display units, multimode communications, navigation radios, a flight management system and a digital autopilot that work together to provide the crew with greater situational awareness. Additionally, built-in controls and diagnostic systems help identify maintenance needs.

Additions to the cargo compartment improve the ability to perform tasks. LED and fluorescent lights illuminate the area, so that work can occur day or night. In addition, flip tracks enable easy loading of an array of cargo.

The C-5M carries 100 percent of DOD air-certified cargo. The modernization supports a reduction in maintenance costs and fuel consumption that affords greater reliability and performance.

Force Multiplier

Whether it is supporting relief efforts or supplying warfighters across the globe, the C-5M has the demonstrated capability to carry more cargo, over greater distances, more reliably and efficiently than any other strategic airlifter. The Super Galaxy is also the only strategic airlifter that can link America directly to warfighters in all theaters of combat without being refueled. By eliminating an en route stop, cargo can reach the warfighters a day earlier than expected.



C-5M – Affordable, Capable, Reliable

<i>Improvement Category</i>	<i>Benefit</i>	<i>Improvement Over Legacy</i>
Environmental	Reduced Fuel Consumption Reduced Hydrocarbon Emission Reduced Noise Emissions	8%–20% Savings on Operational Missions 1 Million Tons Hydrocarbons Saved Over Life Stage 4 Compliant, 3x Quieter
Operational Capability	Greater Range Greater Payload Shorter Runways/Faster Climb Greater Global Access/Versatility Less Tanker Dependency	27% Greater Unrefueled Range at 120,000 lb of Payload 20% Greater Payload Weight for Typical Mission 20% Shorter Takeoff Roll, 58% Faster Climb, Climbs Higher Altitudes, 30% Higher Cruise Operates From up to 2x Number of Airfields Increased Operational Success, Reduced Asset Demands
Reliability and Maintainability	Commercially Proven Propulsions Increased Mean Time Between Failures Reduced Maintenance per Flight Hour Increased Mission Capable Rate	10x Improved Time on Wing 20x Reduction in In-Flight Shutdowns More Than 2x Increase in Mean Time Between Failures 3x Reduction in Maintenance Man-Hours per Flight Hour More Than 75% Wartime Surge Mission Capable Rate Demonstrated
Financial	Reduced Operating Cost Reduced Life-Cycle Cost Good Fiscal Stewardship	\$15 Billion (BY '00) Saved \$8.9 Billion (BY '00) Net Air Force Cost Modernization Pays for Itself

