

# G450

*IT'S ALL IN **THE DETAILS.***

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PERFORMANCE AND TECHNOLOGY

# Technology

## **INNOVATION AT WORK.**

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*Every advanced feature enhances situational awareness, reduces pilot workload and ultimately increases your safety.*

### **THE PLANEVIEW ADVANTAGE**

PlaneView is simply the most advanced flight deck in existence because of its display technology, avionics architecture, processing power and its flight management and navigation capabilities. Open architecture provides the capability to easily integrate avionics functions, such as electronic airport charts and video images from external cameras such as the Enhanced Vision System. PlaneView comes standard with a triplex Flight Management System (FMS). In this integrated work environment, flight crews can function at the peak of their skills and training.

Another Gulfstream standard is the Automatic Emergency Descent Mode (EDM). This unique feature provides protection to the crew and passengers in the unlikely event of a cabin depressurization.

### **CURSOR CONTROL DEVICE**

This unique device controls graphical flight planning, menu scrolling and other on-screen features – just as if you were using a mouse on your own computer. It's intuitive, easy-to-use and reduces pilot workload for improved safety.

### **ENGINES**

To power the G450, engineers selected the Rolls-Royce Tay Mk 611-8C engine. Each of the two turbofan engines generates up to 13,850 pounds (61.6 kN) of thrust, yet performs at noise levels well within Stage 4 noise requirements. Engine emissions are below international regulations – ensuring a warm welcome for you and your aircraft at airports anywhere in the world. Its dual Full Authority Digital Electronic Control (FADEC) system boosts engine reliability by maintaining critical operating parameters. Dual auto throttles manage the engines through all phases of flight and help ensure peak efficiency as well as enhance safety and reliability.

### **PLANECONNECT™**

This smart technology automatically transmits information from your aircraft to maintenance operations on the ground – including Gulfstream's Technical Operations center, if desired. By providing information while the G450 is still in flight, PlaneConnect™ enables speedy resolution of any maintenance issues that may

# Performance

## TIME IS ON YOUR SIDE

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*With its long-range capability and short-range efficiency, the G450 proves its time-saving abilities with ease. The world's most remote destinations lie well within its nonstop range, and worldwide city pairs are often just a single refueling stop away. Because of its large, efficient wing, airframe and powerful engines, there is simply no sacrifice in performance, even under hot and high-elevation conditions.*

### HOW FAR CAN YOU GO?

Fly eight passengers more than 9.5 hours, covering up to 4,350\* nautical miles (8,056 km) at a cruise speed of Mach 0.80. Reach top speeds of up to Mach 0.88 – that's over 580 miles per hour (930 km/hr).

### TAKEOFF

Even on long-range flights, take off from runways half as long as those required by commercial airlines. With a G450, you can operate from smaller, less congested airports that are often closer to your home or office, resulting in a more efficient overall trip.

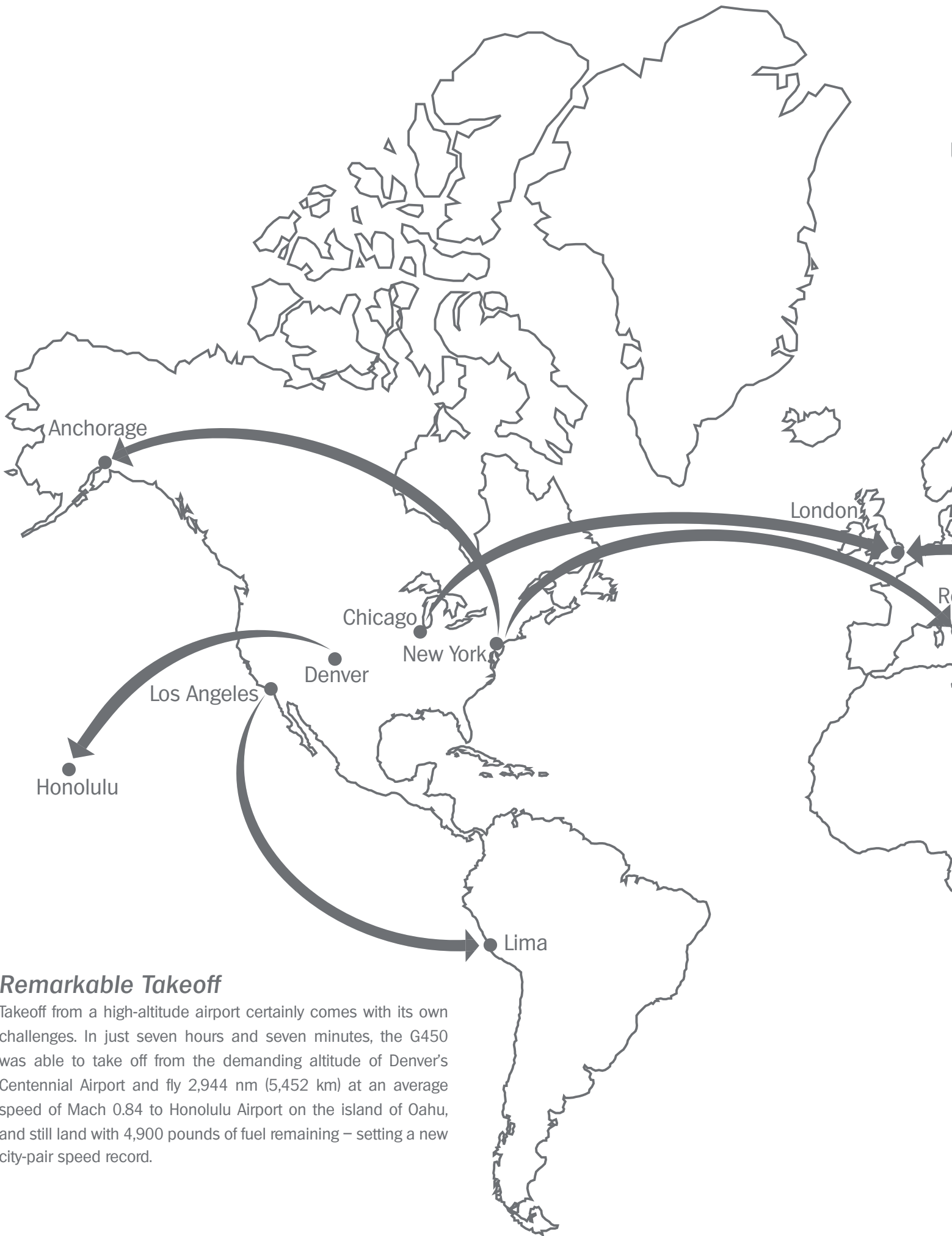
### ALTITUDE

You'll reach initial cruise altitude of 41,000 feet (12,497 m) in approximately 20 minutes. At maximum altitude of 45,000 feet (13,716 m), cruise high over the uncertainties of weather and busy commercial traffic for more direct routes and reduced flight times.

### CARRYING CAPACITY

With the most payload carrying capability in its class, the G450 soars far beyond other business jets. You'll reach 4,000\* nautical miles (7,408 km) carrying up to 15 passengers (3,000 lb/1,361 kg)\*\*. That's enough range to fly from Cairo to Johannesburg.

\*NBAA IFR theoretical range. Actual range will be affected by ATC routing, operating speed, weather, outfitting options and other factors. \*\*Stated weights are based on theoretical standard outfitting configurations. Actual weights will be affected by outfitting options and other factors.



### **Remarkable Takeoff**

Takeoff from a high-altitude airport certainly comes with its own challenges. In just seven hours and seven minutes, the G450 was able to take off from the demanding altitude of Denver's Centennial Airport and fly 2,944 nm (5,452 km) at an average speed of Mach 0.84 to Honolulu Airport on the island of Oahu, and still land with 4,900 pounds of fuel remaining – setting a new city-pair speed record.

\*City pair connections based on the NBAA IFR mission profile, 85% annual winds and standard day conditions. Actual performance will be affected by ATC routing, operating speeds, weather, outfitting options and other factors.



### ***Intercontinental Range***

Carrying eight passengers – traveling nonstop – the G450 proves its intercontinental capabilities with ease, flying up to 4,350 nm (8,061 km) at Mach 0.80\*. In May 2005, the G450 demonstrated its high speed capability flying from Chicago to London in just seven hours and 19 minutes at an average speed of Mach 0.85 – setting a new city-pair speed record.

# Specifications

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## PERFORMANCE

Maximum Range* <i>(Mach 0.80, 8 passengers, 3 crew and NBAA IFR reserves)</i>	4,350 nm / 8,061 km
Normal Cruise Speed	Mach 0.80 / 459 ktas / 850 km/h
High Speed Cruise	Mach 0.85 / 488 ktas / 904 km/h
Mmo <i>(Maximum Operating Mach Number)</i>	Mach 0.88
Takeoff Distance (SL, ISA, MTOW)	5,600 ft / 1,707 m
Landing Distance (SL, ISA, MLW)	3,260 ft / 994 m
Initial Cruise Altitude	41,000 ft / 12,497 m
Maximum Cruise Altitude	45,000 ft / 13,716 m

## WEIGHTS

Maximum Takeoff Weight	74,600 lb / 33,838 kg
Maximum Landing Weight	66,000 lb / 29,937 kg
Maximum Zero Fuel Weight	49,000 lb / 22,226 kg
Basic Operating Weight** <i>(including 3 crew)</i>	43,000 lb / 19,505 kg
Maximum Payload **	6,000 lb / 2,722 kg
Payload with Maximum Fuel **	2,500 lb / 1,134 kg
Maximum Fuel Weight	29,500 lb / 13,381 kg

## DESIGN STANDARDS

Avionics	Gulfstream PlaneView®
Engines	Two Rolls-Royce Tay Mk 611-8C
Rated Takeoff Thrust <i>(each)</i>	13,850 lb / 61.6 kN
Passengers: Maximum	19
Typical Outfitting	12–16

## INTERIOR

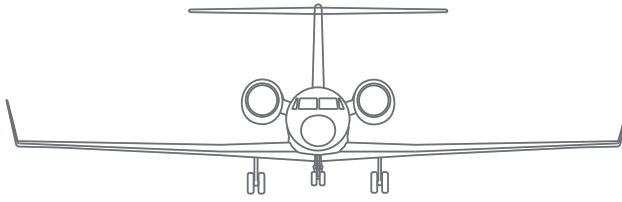
Total Interior Length	45 ft 1 in / 13.74 m
Cabin Length <i>(excluding baggage)</i>	40 ft 4 in / 12.29 m
Cabin Height	6 ft 2 in / 1.88 m
Cabin Width	7 ft 4 in / 2.24 m
Cabin Volume	1,525 cu ft / 43.2 cu m
Baggage Compartment Volume	169 cu ft / 4.8 cu m

## COMFORT

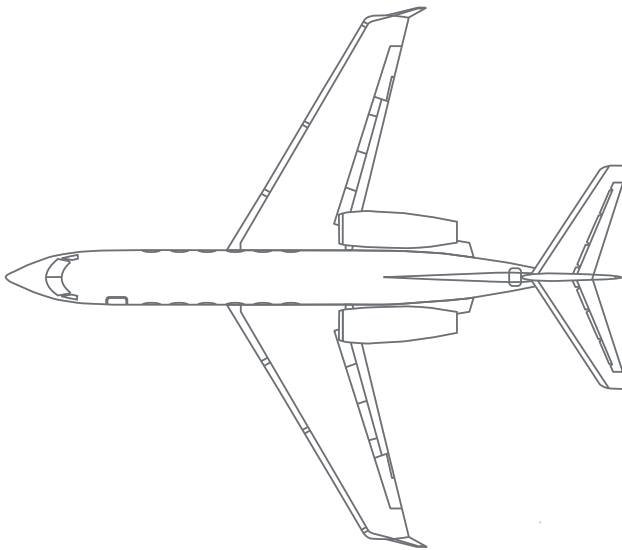
12 Gulfstream Signature Oval Windows  
Forward or Aft Galley  
Forward and Aft Lavatories  
6 Select Floor Plans or Tailored Floor Plan

\*NBAA IFR theoretical range. Actual range will be affected by ATC routing, operating speed, weather, outfitting options and other factors.

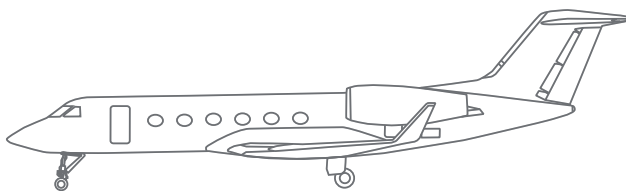
\*\*Stated weights are based on theoretical standard outfitting configurations. Actual weights will be affected by outfitting options and other factors.



77 ft 10 in/23.72 m



89 ft 4 in/27.23 m



25 ft 2 in/7.67 m



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