

Beechcraft G36 Bonanza Model Guide

The Beechcraft G36 Bonanza is a single-engine piston airplane in production since 2006. It has a 300-hp Continental IO-550-B, retractable gear and seating for six. It cruises at about 163 to 174 knots, depending on power setting. It is a fast personal and light-utility airplane, and weight and balance matter for a buyer.

KEY TAKEAWAYS

- Seats up to six, with a maximum takeoff weight of 3,650 lb and a useful load of 1,133 lb (AOPA figure).
- Cruises at 174 kt (15.7 gph) or 163 kt (13.3 gph) with 45-minute reserve; range is 714 to 758 nm.
- Brochure lists Garmin G1000 NXi avionics, standard ADS-B Out and In, and an electrically heated propeller.
- Published empty weight and useful load differ between sources, so confirm the airplane's own weighed figures.

POWERPLANT AND AIRFRAME

A Teledyne Continental IO-550-B of 300 hp drives a Hartzell three-blade, 80-inch constant-speed propeller. Recommended TBO is 1,700 hr. Fuel capacity is 80 gal (74 gal usable). Wing area is 181 sq ft. Rate of climb at sea level is 1,230 fpm and service ceiling is 18,500 ft.

LOADS AND CABIN

AOPA lists standard empty weight 2,530 lb, max ramp weight 3,663 lb, max useful load 1,133 lb, and payload with full fuel 689 lb. The manufacturer brochure shows empty weight 2,600 lb and useful load 1,063 lb. The aft two seats fold forward for baggage access or fold up to free cabin floor space.

TAKEOFF, LANDING AND SPEEDS

Takeoff ground roll is 1,250 ft flaps up (2,130 ft over a 50-ft obstacle max). With approach flaps it is 1,000 ft (1,913 ft over the obstacle). Landing roll is 950 ft (1,500 ft over 50 ft). Best angle of climb is 84 KIAS, best rate is 100 KIAS, and stall in landing configuration is 61 KIAS.

SPECIFICATIONS

Engine Power Hp	300
Fuel Capacity Gal	80
Usable Fuel Gal	74
Max Takeoff Weight Lbs	3650
Max Ramp Weight Lbs	3663
Standard Empty Weight Lbs	2530
Max Useful Load Lbs	1133
Baggage Capacity Lbs	270

PERFORMANCE

Service Ceiling Ft	18500
Rate Of Climb Fpm	1230
Cruise Speed High Kts	174
Range High Speed Nm	714
Fuel Burn High Speed Gph	15.7
Cruise Speed Normal Kts	163
Range Normal Nm	758
Fuel Burn Normal Gph	13.3

V-SPEEDS

Vx Best Angle Kts	84
Vy Best Rate Kts	100
Va Maneuvering Kts	141
Vfe Full Flaps Kts	124
Vle Gear Extended Kts	154
Vno Cruising Kts	167
Vne Never Exceed Kts	205
Vso Landing Config Kts	61

WEIGHT & BALANCE

Max Takeoff Weight Lbs	3650
Max Ramp Weight Lbs	3663
Standard Empty Weight Lbs	2530
Max Useful Load Lbs	1133
Max Payload Full Fuel Lbs	689
Baggage Capacity Lbs	270
Fuel Capacity Gal	80

SAFETY NOTES

- Demonstrated crosswind component is 17 kt. Treat it as a demonstrated figure and keep your own margin.
- Sources disagree on baggage capacity (270 lb and 47 cu ft versus 10.0 cu ft). Check the airplane's placards and its own weight and balance.
- A preflight checklist for Bonanzas warns against flying with a loose exhaust stack tailpipe. Also drain the fuel sumps and inspect the fuel.