

CESSNA C-165 Model Guide

The CESSNA C-165 is a single-engine piston airplane powered by a Continental O-200 of 100 hp, with a McCauley 1A170/DM propeller. The data lists a 1600 lb max takeoff weight, 100 kt cruise and 400 nm range. Seat count and production years are not given in the data, so confirm them against the airframe records.

KEY TAKEAWAYS

- Slow, simple trainer-class performance: 100 kt cruise, 6 gph fuel burn, 400 nm range.
- Useful load is 400 lb on a 1200 lb basic empty weight; max takeoff weight is 1600 lb.
- Takeoff roll is 1200 ft and landing roll 1500 ft; max demonstrated crosswind is 15 kt.
- Glass engine monitor STC SA02402SE lists the C-165 (Army UC-94) as an eligible model.

WHAT YOU ARE BUYING

A piston single with a 36 ft wingspan, 24 ft length and 8 ft height. The Continental O-200 makes 100 hp and drives a McCauley 1A170/DM propeller. Max speed is 120 kt and rate of climb is 700 fpm. Family-level registry data lists up to 4 passengers, but the seat count for this model is not given.

LOADING AND PERFORMANCE

Basic empty weight is 1200 lb and useful load is 400 lb, giving a 1600 lb max takeoff weight. Max ramp and max landing weights are also 1600 lb. Baggage allowance is 200 lb, and the CG range is 36 to 46 inches. With a 6 gph burn and 400 nm range, plan fuel and payload together, because both limits can be reached quickly.

UPGRADES AND RECORDS TO CHECK

FAA STC SA02402SE (Electronics International CGR-30C glass engine monitor) lists the C-165 (Army UC-94) among approved models, issued June 24, 2014. If an engine monitor is fitted, ask for the STC copy, the Instructions for Continued Airworthiness and the flight manual supplement. These must stay with the aircraft records.

SPECIFICATIONS

Engine Hp	100
Engine Model	Continental O-200
Propeller	McCauley 1A170/DM
Wingspan Ft	36
Length Ft	24
Height Ft	8
Range Nm	400

PERFORMANCE

Cruise Speed Kts	100
Max Speed Kts	120
Range Nm	400
Rate Of Climb Fpm	700
Fuel Burn Gph	6
Takeoff Distance Ft	1200
Landing Distance Ft	1500
Max Crosswind Kts	15

V-SPEEDS

Vso Kts	48
Vs1 Kts	55
Vx Kts	65
Vy Kts	70
Va Kts	100
Vfe Kts	85
Vno Kts	125
Vne Kts	150

WEIGHT & BALANCE

Max Takeoff Weight Lbs	1600
Max Ramp Weight Lbs	1600
Max Landing Weight Lbs	1600
Basic Empty Weight Lbs	1200
Useful Load Lbs	400
Baggage Allowance Lbs	200
Cg Forward Limit Inches	36
Cg Aft Limit Inches	46

SAFETY NOTES

- Some library figures (empty weight, fuel capacity, ceiling, max takeoff weight in specs) look like placeholders. Use the 1600 lb limit and verify fuel capacity in the flight manual.
- Stall speeds are 55 kt clean and 48 kt in landing configuration; best glide is 65 kt. Brief these before first flight.
- Any STC modification needs its approved flight manual supplement and installation records. Verify them before purchase.