

BRM AERO Bristell NG-5 Model Guide

The BRM AERO Bristell NG-5 is a single-engine, all-metal, low-wing, two-seat piston aircraft. It is built for recreational and cross-country flying, basic training and non-aerobatic use. The standard engine is a Rotax 912 ULS of 100 hp. It flies from a 600 kg (1320 lb) maximum takeoff weight. The manuals describe it as a light sport design.

KEY TAKEAWAYS

- Two side-by-side seats, Rotax 912 ULS 100 hp, maximum takeoff weight 1320 lb (600 kg).
- The 2018 manual lists 102 KCAS cruise at 75% power and 570 NM range with no reserve.
- Wing is 8.13 m short or 9.13 m long. The 2024 manual shows different performance figures, so check which wing the aircraft has.
- Weight and balance data was corrected by a safety directive. Confirm the aircraft's manual pages are current.

WHAT IT CARRIES

Two seats, a minimum pilot weight of 121 lb, and 1320 lb maximum takeoff weight. Standard empty weight is 715 lb. Baggage behind the seats is limited to 33 lb. Optional wing lockers take 44 lb each and the front locker 22 lb. Total fuel is 31.7 US gal, of which 31.4 is usable.

HOW IT PERFORMS

The 2018 manual gives 113 KCAS top speed at sea level, 102 KCAS at 75% power and a Vy climb of 920 fpm. The 2024 manual (long-wing aircraft) gives 123 KCAS top speed, 108 KCAS cruise, 630 NM range and 860 fpm at Vy. Stall speed is 45 KCAS clean and 38 KCAS with full flaps (2018).

WHAT TO CHECK

Confirm the wing length, the engine variant, and the current weight and balance pages. A safety directive revised the pilot arm and moved the datum to the firewall. Fuel can be mogas (EN 228 super) or AVGAS 100LL; follow the engine service instruction for fuel selection. Ask for the actual weighing report.

SPECIFICATIONS

Wing Span Ft	26.65
Length Ft	21.1
Height Ft	7.48
Cockpit Width In	51.17
Engine Power Hp	100
Fuel Capacity Gal	31.7
Usable Fuel Gal	31.4
Empty Weight Lbs	715

PERFORMANCE

Top Speed Kts	113
Cruise Speed 75pct Kts	102
Cruise Speed 65pct Kts	97
Range Nm	570
Rate Of Climb Fpm	920

V-SPEEDS

Vne Kts	157
Vno Kts	129
Va Kts	96
Vfe Kts	75
Vs1 Kts	45
Vs0 Kts	38
Vx Kts	60
Vy Kts	72

WEIGHT & BALANCE

Max Takeoff Weight Lbs	1320
Empty Weight Lbs	715
Max Baggage Lbs	33
Max Wing Locker Lbs	44
Max Front Locker Lbs	22
Min Crew Weight Lbs	121
Cg Front Limit In	29.5
Cg Aft Limit In	34.9

SAFETY NOTES

- IFR flight in IMC and flight in icing are prohibited. Aerobatics and intentional spins are prohibited.
- Safety directive ALL-SA-0-0-0-0001-2020 corrected the pilot arm and moved the datum to the firewall. Use the revised W&B data.
- Do not exceed maximum takeoff weight of 1320 lb (600 kg). Maximum limit load factors are +4 g and -2 g.