

TECNAM P2004 BRAVO Model Guide

The TECNAM P2004 BRAVO is a two-seat, single-engine, high-wing light aircraft with fixed tricycle gear and a steerable nose wheel. It has a Rotax 912 ULS engine, a maximum takeoff weight of 450 kg and 100 litres of fuel. This guide uses the Italian flight manual (edition 2, 18 April 2008) and a pilot checklist.

KEY TAKEAWAYS

- Two seats, 450 kg maximum takeoff weight and 289 kg empty weight, so payload is limited. Check the weighing record on any aircraft you consider.
- Rotax 912 ULS: 98.5 hp for 5 minutes maximum, 92.5 hp continuous. It runs on RON 95 or EN 228 premium fuel. AVGAS 100LL is for necessity only.
- Aerobatics, including spins, are prohibited. Maximum crosswind is 15 kts.
- The manual describes a fixed-pitch wood propeller, but the checklist has a pitch-control procedure. Confirm which propeller is fitted.

WHAT IT IS AND WHAT IT CARRIES

Two-seat high-wing aircraft with a tapered cantilever wing, 8.4 m span and 11 m² wing area. Maximum takeoff and landing weight are both 450 kg, with 289 kg empty weight. Two 50-litre wing tanks give 100 litres total, with a sediment bowl in the engine bay.

ENGINE AND FUEL

Rotax 912 ULS: four cylinders, 1352 cc, water-cooled heads, air-cooled cylinders, geared. Oil is 2.0 to 3.0 litres. Cylinder head limit is 135 C. Aviation-type engine oil is not permitted. Prolonged AVGAS 100LL use wears valve seats and deposits lead, so use it only when car fuel is unavailable.

WHAT TO CHECK WHEN BUYING

Pre-flight items include fluid leaks, engine mounting bolts and silent blocks, electrical wiring, and the fuel drain. Check the wing struts, leaf-spring gear and wheel fairings. Check the carburettor heat option and the propeller's pitch indicator light. Confirm the documents on board are the current flight manual.

SPECIFICATIONS

Wing Span M	8.4
Length M	6.6
Height M	2.6
Wing Area M2	11
Wing Loading Kg M2	41
Fuel Capacity Litres	100
Max Power Hp	98.5
Continuous Power Hp	92.5

PERFORMANCE

Best Glide Ratio	12.8
Glide Distance Per 1000ft Nm	2
Max Crosswind Kts	15
Fast Cruise Speed Kmh	195
Max Load Factor Flaps 0 G	3.8
Min Load Factor Flaps 0 G	-1.9
Max Load Factor Flaps 40 G	1.9

V-SPEEDS

Vne Kmh	272
Vno Kmh	225
Va Kmh	170
Vfe Kmh	130
Best Glide Speed Kmh	123
Rotation Speed Kmh	90
Vx Kmh	110
Vy Kmh	130

WEIGHT & BALANCE

Max Takeoff Weight Kg	450
Max Landing Weight Kg	450
Empty Weight Kg	289
Cg Forward Limit Mm	1655
Cg Aft Limit Mm	1833
Fuel Capacity Litres	100

SAFETY NOTES

- Do not fly aerobatics or spins. Permitted manoeuvres exclude the hammerhead (scampanata). Bank angle limit is 60 degrees.
- Carburettor icing: below 15 C in damp, rainy or foggy conditions, apply carburettor heat (optional) if power drops.
- Never use water on an engine fire and do not open the cowling until the fire is out.