Magni M-24 Orion Plus Model Guide

Magni M-24 Orion Plus is a single-engine piston gyroplane from Magni Gyro. The supplied documents are the M24C Orion flight manual (Issue D, 2010) and the M24C PLUS maintenance schedule (Issue B, 2023). The performance and weight figures below come from the M24C manual. Confirm them against your own aircraft's handbook.

KEY TAKEAWAYS

- The M-24C Orion is a two-seat, side-by-side pusher gyroplane. It has a steel primary structure, a carbon fibre fuselage and fixed tricycle gear.
- M24C manual figures: MTOW 500 kg, empty weight 297 kg, VNE 100 mph, service ceiling 10000 ft.
- Maintenance: a pilot Check A before the first flight of the day, then 25 h, 100 h, annual, 300 h/3 yr, 500 h and 1000 h checks.
- Aerobatics are not permitted. The manual does not replace training with a qualified instructor.

AIRFRAME AND LAYOUT

The M-24C Orion is a two-seat gyroplane with side-by-side seating. The piston engine is a pusher driving a three-bladed propeller with ground-adjustable pitch. The tail has three vertical fins, and the central one is split into fin and rudder. The baggage compartment is inside the cockpit, under the right seat cushion. Rotor diameter is 28.20 ft.

MAINTENANCE SCHEDULE (M24C PLUS)

Check A is done by the pilot before the first flight of the day. The 25 hour check is carried out only after the first 25 hours or 6 months. Then come the 100 hour check, an annual check (not exceeding 12 months), a 300 hour or 3 year check (whichever is sooner), and 500 and 1000 hour checks. A 5-year check covers Magni rubber components. An A3-7 Engineer certifies the checks after Check A.

WHAT TO CHECK BEFORE BUYING

Ask for logbooks showing compliance with Airworthiness Directives, Mandatory Permit Directives, service bulletins and the lifed items in Section 7 of the schedule. Test the door warning system: the light stays on and the rotor rpm gauge stays inactive until both doors are closed and locked. Check seat belts, rudder pedals, control sticks and the pre-rotator lever against the pre-flight list.

SPECIFICATIONS

Seats	2
Engine Type	piston
Engine Layout	pusher
Propeller	three-bladed, ground-adjustable pitch
Landing Gear	fixed tricycle
Rotor Diameter Ft	28.2

PERFORMANCE

Service Ceiling Ft	10000

V-SPEEDS

Vne Mph	100
Vno Mph	85
Vy Mph	65
Approach Speed Mph	65
Min Level Flight Speed Mph	30

WEIGHT & BALANCE

Dry Weight Kg	290
Empty Weight Kg	297
Max Takeoff Weight Kg	500

SAFETY NOTES

- Aerobatics are not permitted. Unusual manoeuvres and operations outside the defined limits are forbidden.
- Continuous level flight is not possible below 30 mph. At lower speeds a controlled descent occurs.
- Yaw control works down to 20 mph IAS. Below that, keep engine rpm above 3,000 to hold yaw control.

AI-aggregated guide for the Magni M-24 Orion Plus · sources: M24C FLIGHT MANUAL (#100422) · M24C PLUS MAINTENANCE SCHEDULE (#102865) · generated 2026-11-24 · Reference only, not for flight. Check the original documents before relying on this guide.