

Hoffmann H-36 Dimona Model Guide

The Hoffmann H-36 Dimona is a two-seat, side-by-side, glass-fiber motor glider. It has an unbraced wing, a T-tail and fixed gear with a steerable tail wheel. A Limbach L 2000 EB 1.C four-cylinder engine gives 80 hp. Maximum takeoff weight is 1698 lbs. It is certified in the Utility category under JAR 22, for day VFR only.

KEY TAKEAWAYS

- Two-seat motor glider with 80 hp Limbach engine, three-position propeller, and air brakes on the upper wing surface.
- Day VFR only. Aerobatics, spins and flight in clouds are forbidden. Flight into known icing is prohibited.
- Max takeoff weight is 1698 lbs. Max 243 lbs per seat and 27 lbs of baggage, so check the real payload.
- Check airworthiness directive (AD) compliance first: fuel tank (older aircraft), air brake torsion tube, and the finite-life items.

SPEEDS AND HANDLING LIMITS

Never-exceed speed (Vne) is 149 kts in calm air, 113 kts in rough air. Vne falls with altitude: 140 kts at 10,000 ft and 119 kts at 20,000 ft. Stall speed is 38 kts. Best glide is 57 kts. With the engine off and the propeller feathered, sink is about 700 fpm. The clean airframe builds speed rapidly.

ENGINE, FUEL AND LOADING

The Limbach is rated 80 hp at 3,400 rpm. Max continuous is 3,000 rpm; avoid cruise below 2300 rpm. Approved fuel is 100LL or automotive 'Super'. Fuel capacity is 83 liters (22 gal) in the flight manual; the maintenance manual says 80 liters. Use automotive oil only, never aviation-grade oil. Solo flight is from the left seat only.

WHAT TO CHECK WHEN BUYING

Ask for log-book entries for each AD in the 2011 schedule. Aircraft built before 1985 with a fiberglass-reinforced plastic (FRP) fuel tank need repeat tank inspections, or replacement with an aluminium tank. The air brake torsion tube needs a corrosion inspection at intervals of up to 60 months. Other ADs cover wing skin debonding, wing attachment, elevator rib and horn, and life limits.

SPECIFICATIONS

Wing Span Ft	52
Length Ft	22
Wing Area Sq Ft	164
Engine Power Hp	80
Fuel Capacity Gal	22
Max Takeoff Weight Lbs	1698

PERFORMANCE

Best Glide Speed Kts	57
Power Off Sink Rate Fpm	700
Stall Speed Kts	38
Never Exceed Speed Kts	149

V-SPEEDS

Vne Kts	149
Vb Kts	113
Va Kts	95
Vle Kts	149
Vso Kts	38
Vsl Kts	38
Approach Speed Kts	51
Best Glide Kts	57

WEIGHT & BALANCE

Max Takeoff Weight Lbs	1698
Max Weight Per Seat Lbs	243
Max Baggage Lbs	27

SAFETY NOTES

- Close the fuel shut-off valve only for an engine fire or fuel-system maintenance. Closed during takeoff, it risks engine failure.
- If the engine fails below 300 ft, land straight ahead. Above 300 ft, a 180-degree turn in glider mode is possible.
- After maintenance, confirm the static ground cables on the flight controls and fuel tank are reconnected.