

Diamond DA42 VI Model Guide

Diamond DA42 VI is a four-seat, twin-engine piston aircraft listed from 2012. No registry or model-specific performance data was supplied. The figures below come from DA 42 NG type documents: a composite low-wing with retractable gear, a T-tail and two Austro Engine E4 engines that burn Jet A-1 or diesel. Check every figure against your own aircraft's flight manual.

KEY TAKEAWAYS

- Four seats, twin piston, composite low-wing with retractable tricycle gear and T-tail (DA 42 NG type certificate data).
- NG max takeoff mass is 1900 kg (4189 lb), or 1999 kg / 2001 kg with specific design changes. Confirm which applies.
- Standard tanks hold 50 US gal usable; the auxiliary tank adds 26.4 US gal usable. Fuel is Jet A-1 or diesel.
- Check airworthiness directive compliance: the NZ schedule lists gear, wing joint, exhaust, fuel hose and rear door items.

SIZE AND WEIGHTS

Span 13.42 m (44 ft 0 in), length 8.56 m (28 ft 1 in), height 2.49 m (8 ft 2 in), wing area 16.29 m². NG training handout masses: empty (typical) 1450 kg, max zero fuel 1765 kg, max landing 1805 kg, max takeoff 1900 kg. Diesel weighs about 3.2 kg per US gal and Jet A-1 about 3.03, both heavier than avgas.

ENGINES AND PROPELLERS

The NG has two Austro Engine E4 engines. Max takeoff power (5 min) is 100% (123,5 kW) and max continuous is 92% (114 kW). Propellers are 3-blade MT-Propeller units, 1870 mm diameter, or 1900 mm with MÄM 42-600. Oil capacity per engine is 5 to 7 liters.

OPERATING SPEEDS AND LIMITS

Design manoeuvring speed is 114 KEAS up to 1700 kg, 121 KEAS up to 1800 kg and 125 KEAS above 1800 kg. Flap extended speed is 135 KEAS in approach and 110 KEAS in landing. Max gear operating speed is 155 KEAS. The positive load factor is 3.8.

SPECIFICATIONS

Usable Fuel Gal	50
Aux Fuel Usable Gal	26.4
Wing Span Ft	44
Length Ft	28

V-SPEEDS

Va Light Kts	114
Va Mid Kts	121
Va Heavy Kts	125
Vfe Approach Kts	135
Vfe Landing Kts	110
Vlo Kts	155

WEIGHT & BALANCE

Max Takeoff Weight Lbs	4189
Max Takeoff Weight Mod Lbs	4407
Max Takeoff Weight Opt Mod Lbs	4411

SAFETY NOTES

- Landing above 1805 kg is an abnormal operating procedure. A hard-landing check is required after any hard landing, whatever the mass.
- The NZ AD schedule (19 Dec 2024) lists main landing gear, wing skin/spar joint, exhaust pipe, fuel hose and flap bellcrank inspections. Confirm all are done.
- New AD 2024-0235 covers inspection and modification of the rear passenger door latching mechanism. Check compliance.