

Diamond DA40 Tundra Star Model Guide

The Diamond DA40 Tundra Star is a four-seat composite single. It is the DA40 NG with a rough terrain landing gear, powered by the 168 hp Austro AE300 jet fuel piston engine. Bigger wheels and a reinforced gear suit ruts and uneven strips. The performance figures below are DA40 NG base data. Diamond says some of them may vary on the Tundra Star.

KEY TAKEAWAYS

- Rough terrain gear: bigger wheels on main and nose gear, new rims and reinforced structure for uneven strips.
- The 168 hp AE300 runs on jet fuel. DA40 NG data shows 5.1 US gal/hr at 60% power.
- DA40 NG base list price is \$583,100 USD. The Tundra Star rough terrain gear option is \$26,330 (prices effective January 1, 2023).
- Brochure data is approximate. Weights, climb, range and max speed may vary on the Tundra Star.

ENGINE, FUEL AND GEAR

The Tundra Star uses the turbocharged 168 hp Austro AE300 engine with a single power lever. The Tundra Star brochure lists Jet A-1, Jet A, TC-1 and PT fuels. Diamond's NG data adds TS-1, RT, No. 3 Jet Fuel and JP-8. The rough terrain gear has larger wheels, a improved wheel base, new rims and tougher structures. It adds 22 lb.

PERFORMANCE (DA40 NG BASE DATA)

At maximum mass the NG shows a cruise of 124 kts TAS at 60% power at 14,000 ft, burning 5.1 US gal/hr. Stall speed in landing configuration is 60 kts IAS. Take-off ground roll is 1,302 ft and landing roll is 1,043 ft at ISA sea level. Maximum demonstrated crosswind is 25 kts and maximum operating altitude is 16,400 ft.

WHAT TO CHECK WHEN BUYING

Confirm the actual empty weight, useful load, climb and range of the specific aircraft. Diamond says these may vary on the Tundra Star. Confirm that the rough terrain gear is fitted, because it is a \$26,330 option. Check whether it has the 39 US gal long range tanks (28 US gal without) and the optional GFC 700 autopilot (\$36,800).

SPECIFICATIONS

Engine Power Hp	168
Max Takeoff Weight Lbs	2888
Fuel Capacity Long Range Gal	39
Fuel Capacity Standard Gal	28
Rough Terrain Gear Added Weight Lbs	22

PERFORMANCE

Cruise Speed 60 Percent Kts	124
Fuel Burn 60 Percent Gph	5.1
Takeoff Ground Roll Ft	1302
Landing Ground Roll Ft	1043
Max Operating Altitude Ft	16400
Max Demonstrated Crosswind Kts	25

V-SPEEDS

Stall Speed Landing Configuration Kts	60
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WEIGHT & BALANCE

Max Takeoff Weight Lbs	2888
Rough Terrain Gear Added Weight Lbs	22

SAFETY NOTES

- Range figures exclude taxi, take-off, climb, descent and reserve fuel. Plan your fuel reserves yourself.
- Specifications are approximate and may change without notice. Verify them against the aircraft's own flight manual.
- Maximum demonstrated crosswind on the NG is 25 kts. Rough-field operation is not covered by any performance figure in these documents.