

Aircraft Diamond DA42

The Diamond DA-42 NG is a light twin-engine aircraft designed by the company specifically for customers whose lives prioritize safety and comfort, coupled with advanced technology.

Our Vision: To revolutionize civil aviation. Our Goal: To set the highest standards possible in aircraft manufacturing and development. Our Promise: To combine the most advanced materials and technologies to deliver highly reliable and fuel-efficient aircraft with minimal environmental impact, without ever sacrificing performance, safety, or beauty!" - Christian Dries, founder of Diamond Aircraft.

Diamond Aircraft has equipped its DA-42 NG with a new AE300 diesel engine, which is impressive. It is powerful and fuel-efficient at the same time. The new DA-42 NG represents a significant improvement over the previous version. All this makes the Diamond DA-42 an excellent choice not only for individual owners but also for flight schools seeking to incorporate the latest concepts and technological developments into their flight training.

336 horsepower delivers impressive acceleration, significantly improved over the previous model, the DA-42. With the engines delivering 100 percent takeoff power, the nose pitches up 12 degrees and the aircraft climbs to 90 knots indicated airspeed (IAS), consuming 9.4 gph per engine, with the variometer reading fluctuating between 1,100 and 1,300 fpm. This is truly impressive. Five minutes after takeoff, we reduce the nominal power to 92 percent of its maximum value, and the rate of climb is brought to approximately 1,100 fpm. The fuel gauge now indicates a fuel consumption of 8.5 gph.

Having reached 12,000 feet with 92% power, we accelerate to 145 TAS, which results in a true airspeed of 183 knots with a service ceiling of 18,000 feet, and the aircraft can cruise at 14,000 feet with one engine. We use the autopilot and enjoy a comfortable flight thanks to the GFC 700 with its yaw damping system. With power returned to operational mode (75% of maximum), the engines consume 6.8 gallons of fuel per engine and provide 175 knots of true airspeed, burning only 51 liters of JetA1 fuel per hour.

Specifications:

Modification	DA-42	DA-42
Wingspan	13.42 m	44.03 ft
Length	8.56 m	28.08 ft
Height	2.49 m	8.17 ft
Wing Area	16.29 sq. m.	16.29 sq. m.
Empty weight	1,251.00 kg	2,757.98 lbs
Maximum Takeoff Weight	1,700.00 kg	3,747.85 pounds

Engine Type	2 DD Thielert Centurion	2 DD Thielert Centurion
Power	2.00 hp	2.00 hp
max. speed	356.00 km / h	192.22 knot TAS
Cruising Speed	310.00 km / h	167.39 knot TAS
Climbing	390.00 meters per minute	390.00 meters per minute
Practical Range	1,693.00 Km	1,052.03 miles
Practical ceiling	5,486.00 m	17,998.69 ft
Crew	1	1
Passengers	3	3