



DA42 Twin Star

*A new standard in
flying efficiency*

the new DA42 General Aviation

DA42 Twin Star

The demanding challenge behind the development of Diamond Aircraft's DA42 Twin Star was to make full use of all contemporary technology to achieve optimum speed and flying range, outstanding safety and a new level in economic and environmental performance. At last, it is once more possible to fly a twin-engine aircraft with both a clear conscience and with maximum enjoyment.

The airframe

The DA 42 Twin Star combines the benefits of outstanding safety and ideal flight characteristics. Ultra-light, high-strength composite materials are used throughout its construction.

The engine

The DA42 Twin Star is available with two engine options. The first option uses Thielert Centurion 1.7 turbodiesel engines that can run on either diesel or Jet A1 fuel. With just the standard tank (52 US gallons), the aircraft's sensationally efficient fuel consumption gives a maximum range of 900nm, depending on power setting. The second option is fitted with Lycoming IO-360-M1A injection engines.

The avionics

Another groundbreaking innovation is the fully integrated DA42 Twin Star cockpit with its ultra-modern Garmin G1000 avionics system, which has at its heart two large-format 38 cm colour TFT screens. The system is a modular design with open architecture.



Star

DA42 MPP

Multi Purpose Platform

This aircraft represents an absolute quantum leap in tracking and sensor technology and is based on the recently developed and certified DA42 Twin Star – the undisputed leader in its class. The fully equipped DA42 MPP can operate at a wide range of speeds, from a minimum of 65 kts to a maximum of 152 kts (IAS). In monitoring mode the aircraft can fly for up to 18 hours without refuelling. The maximum range at 50% power setting is more than 1500 nm. No other aircraft can match the flexibility of the turbo diesel-powered DA42 MPP.

Power Plant

Engine	2x THIELERT Centurion 1.7 (à 135 hp)	
Propeller	2x MT 3-blade Hydraulic Constant Speed Propeller	

Performance/Consumption/Dimensions/Weights

Max. Air Speed	359 km/h IAS	194 kts IAS
Cruise Speed @ 90% in 10.000 ft	304 km/h TAS	164 kts TAS
Fuel Consumption	54,1 lt/h	14,3 US gal/hr
Range @ 60% in 10.000 ft	1.661 km/	897 nm/
Standard/Long Range Tank	2.361 km	1.275 nm
Length	8,56 m	28 ft 1 in
Height	2,49 m	8 ft 2 in
Wing Span	13,42 m	44 ft
Wing Area	16,29 m ²	175,3 sq ft
Seats	4	4
Empty Weight	1.260 kg	2.778 lb
Max. Take-off Weight (MTOW)	1.785 kg	3.927 lb
Payload	525 kg	1149 lb
Fuel Capacity Standard/Long Range Tank	197 lt	52 US gal
	280 lt	74 US gal

The equipment and colours may differ from those shown in the photographs.



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