

## G-SUEI – The Aircraft

### BASIC DETAILS

Manufacturer:	Diamond Aircraft Industries GmbH, Austria
Model:	Diamond Twin Star
Series:	DA42
Year of Manufacture:	2009
Certificate of Airworthiness:	EASA by UK CAA
Number of engines:	2
Engine type & model:	Thielert Centurion 2.0 lt
Number of propellers:	2
Propeller type & model:	MT 3 blade Hydraulic Constant Speed, fully feathering



## DIMENSIONS & WEIGHTS

Length:	8.56 m
Height:	2.49 m
Wing span:	13.42 m
Wing area:	16.29 m <sup>2</sup>
Seats:	4
Empty weight:	1,260 kg
Max take-off weight (MTOW):	1,785 kg
Payload:	525 kg

## PERFORMANCE/ CONSUMPTION

Rate of climb at sea level (MTOW):	1,052 fpm
Rate of climb at 10,000 ft (MTOW):	840 fpm
Maximum air speed:	194 kts IAS
Cruise speed at 60% power:	138 kts TAS
Fuel capacity (long range tanks):	301 lt
Fuel:	Jet A1/ Diesel
Range:	1,275 nm at 60% power
Fuel consumption:	33.3 lt per hour at 60% power



## **SAFETY EQUIPMENT**

Anti-icing:	TKS De-Ice
Emergency locator:	406 MHz ELT
Lightning protection system:	WX500 stormscope
Traffic Avoidance System:	TAS610
Seats:	3-point safety belts

## **AVIONICS**

Garmin 1000 glass cockpit including:	10-inch Primary Flight Display (PFD) 10-inch Multifunctional Flight Display (MFD) Airframe/ engine interface unit Integrated solid-state attitude & heading reference system (AHRS) Dual integrated COM/NAV/GPS Integrated Transponder Mode S Digital air data computer Digital Audio System Remote DME Remote ADF Fully integrated KAP140 Dual Axis Auto pilot OAT indicator
--------------------------------------	---

Standby instruments:	Compass Air speed indicator Altimeter Horizon Alternate static port
----------------------	---