

## DA40-180 Diamond Star

Power Plant	
Engine	LYCOMING IO-360-M1A (180 hp)
Propeller	MTV-12B/180-17 , 3-blade Constant Speed Propeller

Performance/Consumption		
Take-off Distance (Ground Roll)	313 m	1,027 ft
Take-off Distance (50 ft Obstacle)	464 m	1,522 ft
Rate of Climb at Sea Level MTOW	4.8 m/s	945 fpm
Max. Demonstrated Operating Altitude	5,000 m	16,400 ft
Manoeuvring Speed	200 km/h	108 kts
Max. Cruise Speed	272 km/h TAS	147 kts TAS
Cruise Speed @ 75% in 6.000 ft Fuel Consumption	254 km/h TAS 35.9 lt/h	137 kts/ TAS 9.5 US gal/hr
Cruise Speed @ 55% in 10.000 ft Fuel Consumption	226 km/h TAS 27.3 lt/h	122 kts TAS 7.2 US gal/hr
Stall Speed (0° Flaps) MTOW	96 km/h	52 kts
Stall Speed (Full Flaps)	91 km/h	49 kts
Max. Demonstrated Crosswind Component	37 km/h	20 kts
Range (45 min, Route Reserve)	1,056 km	570 nm

Dimensions/Weights		
Length	8.06 m	26 ft 5 in
Height	1.97 m	6 ft 6 in
Wing Span	11.94 m	39 ft 2 in
Wing Area	13.54 m <sup>2</sup>	145.7 sq ft
Seats	4	4
Empty Weight	750 kg	1,653 lb
Max. Take-off Weight (MTOW)	1,150 kg	2,535 lb
Payload (N-VFR)	400 kg	882 lb
Payload Decrease IFR	40 kg	88 lb
Useable Fuel Capacity Standard/Long Range Tank	155 lt/185 lt	41 US gal/49 US gal
Fuel Grades	AVGAS 100 LL	AVGAS 100 LL

Specifications apply to standard equipped aircraft (with Garmin Avionics), if not otherwise stated. Specification may change without notice. Status: March 1, 2005

