

HB-SDJ



Technical Datasheet

Diamond DA40-180

Basic Information

Aircraft Type	Diamond DA40-180
ICAO Designator	DA40
Year built	2004
Engine	Lycoming IO-360-M1A
Engine Power	180 HP
Range	724 NM / 1341 km

Avionics

Primary Instruments	Classic 6-Pack
NAV / COMM	Integrated in GNS430 (COMM 1), Garmin GTR225 (COMM 2)
GPS	Garmin GNS 430
XPDR	Garmin GTX 330
Audio Panel	Garmin GMA 340
Autopilot	-
FLARM	Powerflarm/ Butterfly display

Speeds

V_{GLIDE} Best Glide	73 KIAS
V _R (Flaps T/O)	59 KIAS
V _{SO} Stall Speed (Flaps LDG)	49 KIAS
V _{STO} Stall Speed (Flaps T/O)	51 KIAS
V _S Stall Speed (Flaps UP)	52 KIAS
V _X Best angle of climb (Flaps T/O)	66 KIAS
V _Y Best rate of climb (Flaps UP)	73 KIAS
V _{CRUISE} Climb (Flaps UP)	90 KIAS
V _A Maneuvering speed @ < 1000 kg	94 KIAS
V _A Maneuvering speed @ MTOW	108 KIAS
V _{NE} Never Exceed Speed	176 KIAS
V _{FE} Flaps extended (Flaps T/O)	108 KIAS
V _{FE} Flaps extended (Flaps LDG)	91 KIAS
V _{APP} (Flaps UP)	71 KIAS
V _{APP} (Flaps T/O)	70 KIAS
V _{APP} (Flaps LDG)	67 KIAS
V _{CRUISE} Cruising Speed 65 % @ 6000 ft	128 KTAS
Max. Crosswind Component	20 KTS



Fuel System

Total Capacity

2 x 20.6 USG = 41.2 USG / 156.0 Liter

Usable fuel

2 x 20.1 USG = 40.2 USG / 154.0 Liter

Approved fuel types

AVGAS 100 LL

Fuel Consumption (PA 6000ft, ISA)

55% Best Economy Mixture (117 KTAS)

7.5 USG/h / 28.4 Liter/h

65% Best Economy Mixture (128 KTAS)

8.5 USG/ h / 32.2 Liter/h

Weights:

MTOM Maximum Takeoff Mass

1150 kg / 2535 lbs

MLM Maximum Landing Mass

1092 kg / 2407 lbs

max. Weight in Forward Baggage Area

45 kg / 100 lbs

max. Weight in Aft Baggage Area

18 kg / 40 lbs

Basic Empty Weight

761.0 kg / 1677.7 lbs

Basic Empty Moment

161'166.8 inches x lbs

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