

A white Piper PA28-161 Cadet aircraft with red and blue stripes, registration HB-POE, parked on a tarmac. The tail features the word 'CADET' in blue. Other similar aircraft are visible in the background.

HB-POE

Technical Datasheet

Piper PA28-161 Cadet

Basic Information

Aircraft Type	Piper PA28-161 Cadet
ICAO Designator	P28A
Year built	1989
Engine	Lycoming O-320-D3G
Engine Power	160 HP
Range	525 NM / 972 km

Avionics

Primary Instruments	Dual Garmin G5
NAV / COMM	Garmin GNC 255 (COMM 1), no COMM 2
GPS	Garmin area 500
XPDR	Garmin GTX 328
Audio Panel	Garmin GMA 340
Autopilot	-
FLARM	Powerflarm/ Butterfly display

Speeds

V_{GLIDE} Best Glide	73 KIAS
V _R (Flaps 25°)	50 KIAS
V _R (Flaps 0°)	55 KIAS
V _{so} Stall Speed (Flaps 40°)	44 KIAS
V _{s1} Stall Speed (Flaps 0°)	50 KIAS
V _{Barrier} (Flaps 0°/ 25°)	55 KIAS / 55 KIAS
V _x Best angle of climb (Flaps 0°)	63 KIAS
V _y Best rate of climb (Flaps 0°)	79 KIAS
V _{cruise Climb} (Flaps 0° >2000 ft AAL)	87 KIAS
V _A Maneuvering speed @ empty weight	88 KIAS
V _A Maneuvering speed @ MTOW	111 KIAS
V _{p clean} min. clean speed	75 KIAS
V _{ne} Never Exceed Speed	160 KIAS
V _{FE} Flaps extended speed white arc	103 KIAS
V _{app} (Flaps 0°)	70 KIAS
V _{app} (Flaps 40°)	65 KIAS
V _{CRUISE} Cruising Speed 65 % @ 6000 ft	102 KTAS
Max. Crosswind Component	17 KTS





Fuel System

Total Capacity
Usable fuel
Fuel Filler Neck
Approved fuel types

2 x 25.0 USG = 50 USG / 189.3 Liter
2 x 24.0 USG = 48.0 USG / 181.7 Liter
2 x 17.0 USG = 34.0 USG / 128.7 Liter
AVGAS 100 LL

Fuel Consumption (PA 6000ft, ISA)

55% Best Power Mixture (95 KTAS)
65% Best Power Mixture (105 KTAS)

7.8 USG/h / 29.5 Liter/h
8.8 USG/h / 33.3 Liter/h

Weights:

MTOM Maximum Takeoff Mass
MLM Maximum Landing Mass
max. Weight in Baggage Area
Basic Empty Weight
Basic Empty Moment

1054 kg / 2325 lbs
1054 kg / 2325 lbs
22.7 kg / 50 lbs
664.9 kg / 1465.8 lbs
123'420.4 inches x lbs

Last updated: 22.02.2023