Technical Datasheet

Piper PA28-161 Cadet

Not for operational use!

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	tbd
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 Exeed 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

flugschule fricktal
motorfluggruppe fricktal

Fuel System

Total Capacity	2 x 25.0 USG = 50 USG / 189.3 Liter
Usable fuel	2 x 24.0 USG = 48.0 USG / 181.7 Liter
Fuel Filler Neck	2 x 17.0 USG = 34.0 USG / 128.7 Liter
Approved fuel types	AVGAS 100 LL

Fuel Consumption (PA 6000ft, ISA)

55% Best Power Mixture (95 KTAS)	7.8 USG/h / 29.5 Liter/h
65% Best Power Misture (105 KTAS)	8.8 USG/ h / 33.3 Liter/h

Weights:

MTOM Maximum Takeoff Mass	1054 kg / 2325 lbs
MLM Maximum Landing Mass	1054 kg / 2325 lbs
max. Weight in Baggage Area	22.7 kg / 50 lbs
Basic Empty Weight	667.5 kg / 1471.5 lbs

Last updated: 19.02.2026