

GENERAL SPECIFICATIONS

PERFORMANCE

Published figures are for standard airplanes flown at gross weight under standard conditions at sea level, unless otherwise stated. Performance for a specific airplane may vary from published figures depending upon the equipment installed, the condition of engine, airplane and equipment, atmospheric conditions and piloting technique. Each performance figure below is subject to the same conditions as on the corresponding performance chart from which it is taken in the Performance Charts Section.

Takeoff Ground Run, flaps up, sea level (ft)	800
Takeoff Distance Over 50-ft Obstacle, flaps up, sea level (ft)	1700
Best Rate of Climb Speed (mph)	89
Rate of Climb (ft per min)	631
Best Angle of Climb Speed, sea level (mph)	78
Max Speed, sea level (mph)	142*
Max Speed, Optimum Alt, 7800 ft, 75% power (TAS) (mph)	135*
Service Ceiling (ft)	10,950
Absolute Ceiling (ft)	13,000
Cruise Speed at best power mixture, optimum altitude (TAS) (mph)	
65% power, 10,250 ft	127
55% power, 11,900 ft	114
Range at best power mixture optimum altitude (mi)**	
75% power, 7,800 ft	705
65% power, 10,250 ft	765
55% power, 11,900 ft	855
Cruise Speed at best economy mixture, optimum altitude (mph)	
75% power, 7,000 ft	126
65% power, 10,000 ft	120
55% power, 12,000 ft	114
Range at best economy mixture, optimum altitude (mi)**	
75% power, 7,000 ft	720
65% power, 10,000 ft	795
55% power, 12,000 ft	880
Cruising Speed, sea level, 75% power (mph)	124
Instructional power cruise speed, sea level, 60% power (mph)	110
Cruising range, sea level, 75% power (mi)	475
	(675***)
Instructional power cruising range, sea level, 60% power, (mi)	540
	(760***)

\* All speeds stated are with optional wheel fairings installed. Subtract 3 mph if wheel fairings are not installed.

\*\* Ranges based on 48 gal usable fuel, no reserve.

\*\*\* Ranges adjusted to reflect the use of best economy speeds with best economy fuel flows, and 48 gallons usable.

## CHEROKEE CRUISER

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Fuel Consumption, 75% power (gal per hr)	8.4
Fuel Consumption, 50% power (gal per hr)	5.6
Stalling Speed, flaps down (mph)	55
Landing Roll, flaps down (ft)	535

### WEIGHTS

Gross Weight (lbs)	2150
Standard Empty Weight (lbs)	1275
Maximum Useful Load (lbs)	875

### POWER PLANT

Engine - Lycoming	O-320-E3D
Rated Horsepower and Speed (rpm)	150 at 2700
Bore (inches)	5.125
Stroke (inches)	3.875
Displacement (cubic inches)	319.8
Compression Ratio	7:1
Dry Weight (pounds)	276
Oil Sump Capacity (quarts)	8
Propeller (Sensenich)	M74DM

### FUEL

#### AVGAS ONLY

Fuel Capacity (U.S. gal) Standard	36
Fuel Capacity (U.S. gal) Reserve	50
Fuel, Aviation Grade	
Minimum Octane	80/87
Specified Octane	80/87
Alternate Fuels	

Refer to Fuel Requirements,  
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### OIL

Oil Capacity (quarts)	8
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### BAGGAGE

Maximum Baggage (lbs)	200*
Baggage Space (cubic ft)	22

\*See Weight and Balance for limitations when family seats and safety family seats are installed or baggage area modified in accordance with Piper Drawing 66671.

**DIMENSIONS**

Wing Span (ft)	30
Wing Area (sq ft)	160
Wing Loading (lbs per sq ft)	13.4
Length (ft)	23.3
Height (ft)	7.3
Power Loading (lbs per hp)	14.3

**LANDING GEAR**

Wheel Base (ft)	6.2
Wheel Tread (ft)	10.0
Tire Pressure (lbs)	Nose 24
	Main 24
Tire Size	Nose (4 ply rating) 6.00 x 6
	Main (4 ply rating) 6.00 x 6

# CHEROKEE CRUISER

