

PERFORMANCE - SPECIFICATIONS

SPEED:

Maximum at 17,000 Ft	205 KNOTS
Cruise, 80% Power at 20,000 Ft	198 KNOTS
Cruise, 80% Power at 10,000 Ft	181 KNOTS

CRUISE: Recommended Lean Mixture with fuel allowance for engine start, taxi, takeoff, climb and 45 minutes reserve at 45% power.

80% Power at 20,000 Ft	Range	825 NM
534 Pounds Usable Fuel	Time	4.4 HRS
80% Power at 10,000 Ft	Range	785 NM
534 Pounds Usable Fuel	Time	4.5 HRS
Maximum Range at 20,000 Ft	Range	985 NM
534 Pounds Usable Fuel	Time	7.0 HRS
Maximum Range at 10,000 Ft	Range	990 NM
534 Pounds Usable Fuel	Time	7.4 HRS

RATE OF CLIMB AT SEA LEVEL 1030 FPM

SERVICE CEILING 28,500 FT

TAKEOFF PERFORMANCE:

Ground Roll	1150 FT
Total Distance Over 50-Ft Obstacle	1900 FT

LANDING PERFORMANCE:

Ground Roll	765 FT
Total Distance Over 50-Ft Obstacle	1500 FT

STALL SPEED (CAS):

Flaps Up, Power Off	65 KNOTS
Flaps Down, Power Off	56 KNOTS

MAXIMUM WEIGHT. 3800 LBS

STANDARD EMPTY WEIGHT:

Turbo Centurion	2251 LBS
Turbo Centurion II	2324 LBS

MAXIMUM USEFUL LOAD:

Turbo Centurion	1549 LBS
Turbo Centurion II	1476 LBS

BAGGAGE ALLOWANCE: Maximum With 4 People 240 LBS

WING LOADING: Pounds/Sq Ft 21.7

POWER LOADING: Pounds/HP 12.3

FUEL CAPACITY: Total 90 GAL.

OIL CAPACITY 11 QTS

ENGINE: Teledyne Continental, Turbocharged Fuel Injection TSIO-520-R

310 BHP at 2700 RPM (5-Minute Takeoff Rating)

285 BHP at 2600 RPM (Maximum Continuous Rating)

PROPELLER: 3-Bladed Constant Speed, Diameter 80 IN.

LANDING DISTANCE

SHORT FIELD

CONDITIONS:

Flaps 30°

Power Off

Maximum Braking

Paved, Level, Dry Runway

Zero Wind

NOTES:

1. Short field technique as specified in Section 4.
2. Decrease distances 10% for each 10 knots headwind. For operation with tailwinds up to 10 knots, increase distances by 10% for each 2.5 knots.
3. For operation on a dry, grass runway, increase distances by 40% of the "ground roll" figure.

WEIGHT LBS	SPEED AT 50 FT KIAS	PRESS ALT FT	0°C		10°C		20°C		30°C		40°C	
			GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS
3800	71	S.L.	725	1440	750	1480	780	1520	805	1560	830	1600
		1000	750	1480	780	1520	805	1560	835	1605	860	1645
		2000	780	1525	810	1565	835	1605	865	1650	895	1695
		3000	810	1565	840	1610	870	1660	900	1705	930	1750
		4000	840	1615	870	1660	900	1705	930	1750	965	1800
		5000	870	1660	905	1710	935	1755	965	1805	1000	1855
		6000	905	1710	940	1765	970	1810	1005	1860	1035	1910
		7000	940	1765	975	1815	1010	1870	1045	1920	1075	1970
		8000	975	1815	1010	1870	1050	1930	1085	1980	1120	2035

Figure 5-10. Landing Distance