

CHEYENNE III

SPECIFICATIONS & PERFORMANCE

11,200 lbs. gross weight

SPECIFICATIONS

POWER PLANTS

Two Pratt and Whitney (UACL) PT6A-41, flat
rated at 720 shaft hp each

WEIGHTS

Maximum ramp weight	11,285 lbs. (5118 kg)
Maximum take-off weight	11,200 lbs. (5080 kg)
Maximum landing weight	10,330 lbs. (4686 kg)
Standard empty weight (includes: unusable fuel, full operating fluids and full oil)	6,389 lbs. (2898 kg)
Standard useful load	4,896 lbs. (2221 kg)
Maximum zero fuel gross weight (200 lbs in nacelles)	9,350 lbs. (4241 kg)

WING AREA/WING LOADING/POWER LOADING

Wing area	293 ft. ² (27.2m ²)
Wing loading	38.22 lbs./ft. ² (186.6 kg/m ²)
Power loading	7.78 lbs./hp (3.53 kg/hp)

PRESSURIZATION (6.3 PSI Differential)

Actual aircraft altitude	Cabin Altitude
14,600 ft. (4450 m)	Sea Level
28,500 ft. (8687 m)	8000 ft. (2438 m)
33,000 ft. (10,058 m)	10,000 ft. (3048 m)

USABLE FUEL (6.7 lbs./gal.)

578 U.S. gal. (2188 L)

OIL CAPACITY (Total)

6.5 U.S. gal. (24.6 L)

DIMENSIONS

Wing span	47.67 ft. (14.53 m)
Length	43.39 ft. (13.23 m)
Height	14.75 ft. (4.5 m)
Cabin length	275 in. (699 cm)
Cabin width	51 in. (130 cm)
Cabin height	52 in. (132 cm)
Passenger door size	29 x 46 in. (73.7 x 116.8 cm)
Baggage door size (forward)	24 x 20 in. (61.0 x 50.8 cm)
Utility door size (aft)	18.5 x 30 in. (47.0 x 76.2 cm)
Wing locker door size	24 x 34 in. (61.0 x 86.4 cm)

BAGGAGE – WEIGHT ALLOWANCE AND VOLUME

Rear baggage compartment	300 lbs. (31 ft. ³)	136 kg (.88 m ³)
Front baggage compartment	300 lbs. (16.25 ft. ³)	136 kg (.46 m ³)
Wing locker compartments	200 lbs. (11.2 ft. ³)	91 kg (.32 m ³)

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PERFORMANCE

CRUISE SPEEDS – TAS

Average Cruise weight
(Maximum cruise power @ 9100 lbs.)
20,000 ft. (6096 m) 290 kts. (537 kmh)
25,000 ft. (7620 m) 285 kts. (528 kmh)
30,000 ft. (9144 m) 276 kts. (511 kmh)
33,000 ft. (10,058 m) 265 kts. (491 kmh)

CRUISE RANGE (578 gal. usable)

Maximum cruise power
20,000 ft. (6096 m) 1400 nm (2593 km)
25,000 ft. (7620 m) 1610 nm (2982 km)
30,000 ft. (9144 m) 1850 nm (3426 km)
33,000 ft. (10,058 m) 2000 nm (3704 km)

Maximum range power
20,000 ft. (6096 m) 1785 nm (3306 km)
25,000 ft. (7620 m) 2010 nm (3723 km)
30,000 ft. (9144 m) 2180 nm (4037 km)
33,000 ft. (10,058 m) 2240 nm (4148 km)
Range includes allowance for fuel used during starting, taxi, takeoff, climb, cruise, descent and a 45 minute reserve at maximum range power and standard atmospheric conditions.

RATE OF CLIMB AT SEA LEVEL

(Two engines)
11,200 lbs. (5080 kg) 2236 fpm (682 m/m)
9,000 lbs. (4082 kg) 3050 fpm (930 m/m)
(One engine)
11,200 lbs. (5080 kg) 531 fpm (162 m/m)
9,000 lbs. (4082 kg) 899 fpm (274 m/m)

SERVICE CEILING

(Two engines – 100 fpm)
11,200 lbs. (5080 kg) 32,000 ft. (9754 m)
(One engine – 50 fpm)
11,200 lbs. (5080 kg) 18,200 ft. (5547 m)
9,000 lbs. (4082 kg) 25,400 ft. (7742 m)

STALL SPEEDS IAS –

Power idle at 11,200 lbs. (5080 kg)
Flaps 30° gear down 87 kts. (161 kmh)
Flaps 0° gear up 100 kts. (185 kmh)

TAKE-OFF DISTANCE Flaps 0°

Normal procedures at 11,200 lbs. (5080 kg)
Lift-off speed (IAS) 107 kts. (198 kmh)
Ground run 2560 ft. (780 m)
Tot. dis. over 50 ft. obstacle 3230 ft. (985 m)

TAKE-OFF DISTANCE (w/Autofeather) Flaps 10°

Normal procedures at 11,200 lbs. (5080 kg)
Lift-Off speed (IAS) 95 kts. (176 kmh)
Ground run 1744 ft. (532 m)
Tot. dis. over 50 ft. obstacle 2384 ft. (727 m)

LANDING DISTANCE 10,330 lbs. (4686 kg)

Approach speed (IAS) 105 kts. (194 kmh)
Ground roll 1757 ft. (536 m)
Tot. dis. over 50ft. obstacle 2554 ft. (778 m)

With propeller reversing

Approach speed (IAS) 105 kts. (194 kmh)
Ground roll 1337 ft. (408 m)
Tot. dis. over 50 ft. obstacle 2135 ft. (651 m)

DISTANCE TO ACCELERATE AND STOP - 11,200 lbs. (5080 kg) Flaps 0°

(includes allowance for failure recog. & reaction)
Decision speed (IAS) 107 kts. (198 kmh)
Total distance 3985 ft. (1215 m)

DISTANCE TO ACCELERATE AND STOP - 11,200 lbs. (5080 kg) (w/Autofeather)

Flaps 10° (includes allowance for failure recog. & reaction)
Decision speed (IAS) 95 kts. (176 kmh)
Total distance 3363 ft. (1025 m)

MISSION PROFILE

Operation based on the following conditions:
Empty weight 6,550 lbs. (2971 kg)
Ramp weight 11,285 lbs. (5119 kg)
Take-Off weight 11,200 lbs. (5080 kg)
Maximum cruise power at 30,000 ft. (9144 m)
8 occupants, plus 160 lbs. (73 kg) luggage, and
3215 lbs. (1458 kg) of fuel before starting engines
Range 1446 nm (2678 km)
Speed (Average) 268 kts. (496 kmh)
Mission Time 5 hrs., 24 min.