







Cheyenne 400LS specifics

Power Plants

Two Garrett Turbine Engine Company TPE 331-14 clockwise and counterclockwise rotation, 1,540 rpm

Thermodynamic capability	1,645-hp each
Gearbox limit	1,250-hp each
Flat rated at	1,000-hp each

Two Dowty-Rotol 106-inch diameter four-blade propellers, advanced carbon-epoxy composite blade structure, advanced technology airfoil section ARA-D

Weights

Maximum ramp weight	12,135 lbs. (5,503 kg)
Maximum takeoff weight	12,050 lbs. (5,466 kg)
Maximum landing weight	11,100 lbs. (5,035 kg)
Standard empty weight-equipped*	7,546 lbs. (3,423 kg)
(Includes: unusable fuel, full operating fluids and full oil)	
Standard useful load	4,589 lbs. (2,082 kg)
Maximum zero fuel weight	10,000 lbs. (4,536 kg)
Maximum cabin load (equipped)	2,454 lbs. (1,113 kg)
Maximum usable fuel	3,819 lbs. (1,732 kg)

*Includes Standard Collins Avionics

Wing Area/Wing Loading/Power Loading

Wing area	293 ft. ² (27.2 m ²)
Wing loading	41.1 lbs./ft. ² (200.8 kg/m ²)
Power loading	6.02 lbs./hp (2.73 kg/hp)

Pressurization (7.5 psi differential)

Actual aircraft altitude	Cabin Altitude
18,500 ft. (5,639 m)	Sea level
35,000 ft. (10,668 m)	8,000 ft. (2,438 m)
41,000 ft. (12,497 m)	10,000 ft. (3,048 m)

Usable fuel (6.7 lbs./gal.) 570 U.S. gal. (2,158 l)

Dimensions

Wing span	47.7 ft. (14.53 m)
Length	43.4 ft. (13.23 m)
Height	16.4 ft. (5.00 m)
Cabin length	275 in. (699 cm)
Cabin width	51 in. (130 cm)
Cabin height	56 in. (142 cm)
Passenger door size	
29" x 46"	(73.7 x 116.8 cm)
Nose baggage door size (forward)	
24" x 12"	(61.0 x 30.5 cm)
Nose baggage door size (aft)	
26" x 20"	(66.0 x 50.8 cm)
Utility door size (aft)	
18.5" x 30"	(47.0 x 76.2 cm)

Baggage-Weight Allowance and Volume

Rear baggage compartment	300 lbs. (31 ft. ³)
	136 kg (.88 m ³)
Front baggage compartment	300 lbs. (17 ft. ³)
	136 kg (.48 m ³)

Performance — Standard Atmosphere Conditions

Cruise Speeds-TAS

Mid-cruise weight (10,000 lbs.)

(Maximum cruise power)

24,000 ft. (7,315 m)	351 kts. (650 kph)
25,000 ft. (7,620 m)	350 kts. (648 kph)
29,000 ft. (8,839 m)	346 kts. (641 kph)
35,000 ft. (10,688 m)	334 kts. (619 kph)
41,000 ft. (12,497 m)	294 kts. (545 kph)

Cruise Range*

Maximum cruise power @ 35,000 ft.

8 passengers (1,600 lbs.)	1,244 nm (2,304 km)
6 passengers (1,200 lbs.)	1,466 nm (2,715 km)
4 passengers (800 lbs.)	1,690 nm (3,130 km)
2 passengers (400 lbs.)	1,821 nm (3,372 km)

Long-range power @ 41,000 ft.

8 passengers	1,431 nm (2,650 km)
6 passengers	1,715 nm (3,176 km)
4 passengers	2,002 nm (3,708 km)
2 passengers	2,176 nm (4,030 km)

*Equipped Standard Airplane With Collins Avionics. Includes 200-Pound Allowance For Pilot.

Rate of Climb at Sea Level

(Two engines) 12,050 lbs. (5,465 kg)	3,242 fpm (988 m/m)
(One engine) 12,050 lbs. (5,465 kg)	997 fpm (304 m/m)

Service Ceiling

(Two engines-100 fpm)	
12,050 lbs. (5,465 kg)	Above 41,000 ft. (12,344 m)
(One engine-50 fpm)	
12,050 lbs. (5,465 kg)	Above 27,000 ft. (8,230 m)

Stall Speeds IAS

Flight idle at 12,050 lbs. (5,465 kg)	
Flaps 30° gear down	84 kts. (156 kph)
Flaps up, gear up	93 kts. (172 kph)

Takeoff Distance — Sea Level

Normal procedures at 12,050 lbs. (5,465 kg)	
Total distance over 50-ft. obstacle	2,232 ft. (680 m)

Landing Distance — Sea Level

Normal procedures at 11,100 lbs. (5,035 kg)	
Total distance over 50-ft. obstacle	
Without reverse thrust	2,340 ft. (713 m)
With reverse thrust	2,040 ft. (622 m)

Engine Failure on Takeoff — Sea Level

Normal and emergency procedures at 12,050 lbs. (5,465 kg)	
(includes allowance for failure recognition and reaction)	
Distance to accelerate and stop	3,275 ft.
Distance to accelerate and go	3,485 ft.

Mission Profile (Maximum Cruise Power)

Operation based on the following conditions:	
Basic empty weight	7,546 lbs. (3,423 kg)
Ramp weight	12,135 lbs. (5,504 kg)
Takeoff weight	12,050 lbs. (5,465 kg)
Mission length	1,244 nm (2,304 km)
Cruise altitude	35,000 ft. (10,668 m)
Payload 8 pax plus 240 lbs. luggage	1,600 lbs. (726 kg)
Pilot weight allowance	200 lbs. (91 kg)
Mission time	3 hrs., 54 min.