



Bell 427

TECHNICAL SPECIFICATIONS

Engine:

Manufacturer: Pratt and Whitney
Model: 206D

Power Ratings:

Takeoff: 550 shp / 410 kw
Max Continuous: 550 shp / 410 kw

Transmission Ratings:

Take off: 800 shp / 597 kw

Rotor Systems:

Main Rotor Blades: 4
Tail Rotor Blades: 4
Main Diameter: 46.0 ft / 14.02 m

Dimensions External:

Length, fuselage 35.90 ft / 10.94 m
Length, T/R turning 46.00 ft / 14.02 m
Width, fuselage 8.0 ft / 2.44 m
Width, widest point 7.75 ft / 2.36 m
Width, landing gear 7.75 ft / 2.36 m
Height, top, rotor hub 6.80 ft / 3.51 m
Height, top, tail fin 11.44 ft / 3.49 m
GR clearance, fuselage 1.35 ft / 0.41 m
GR clearance, T/R guard 3.80 ft / 1.16 m

Dimensions, Internal:

Cabin Length, max 7.67 ft / 2.34 m
Baggage Length, max 7.09 ft / 2.16 m
Cabin Width, max 8.0 ft / 2.44 m
Baggage Width max 1.74 ft / 0.53 m
Cabin Height, max 4.33 ft / 1.32 m
Baggage Height, max 2.26 ft / 0.69 m
Cabin Volume 220.00 ft³ / 6.23 m³
Baggage Volume 28.00 ft³ / 0.79 m³

Accommodations:

Standard seating 2 + 2 + 3
High density 2 + 2 + 3

Weights:

Max gross 6000 lb / 2722 kg
Empty, std acft 3485 lb / 1581 kg
Useful load 2515 lb / 1141 kg
Useful, with full fuel 1233 lb / 559 kg

Range:

Volume Standard tank 190 gallons / 719 liters
Volume Aux or Ferry Tank 582 liters

Endurance:

Cruise, no reserves: 4.0 hrs

Performance:

Service ceiling 16,500 ft / 5029 m
HIGE 13,800 ft / 4206 m
HIGE, ISA+20°C 9950 ft / 2896 m
HOGE 5,500 ft / 1676 m
HOGE, ISA+20°C 3250 ft / 991 m
Econ Cruise, S/L 234 km/hr / 126 kts