



McDonnell Douglas MD 500E

TECHNICAL SPECIFICATIONS

Engine:

Manufacturer	Rolls Royce
Model	250 C20B

Power Ratings:

Takeoff	420 shp / 313 kw
Max Continuous	400 shp / 298 kw

Transmission Ratings:

Take off	375 shp / 280 kw
Continuous	350 shp / 261 kw

Rotor Systems:

Main Rotor Blades	5
Tail Rotor Blades	2
Main Diameter	26.41 ft / 8.05 m

Dimensions External:

Length, fuselage	23.20 ft / 7.07 m
Length, T/R turning	26.50 ft / 8.08 m
Length, M/R turning	No data available
Width, fuselage	4.60 ft / 1.40 m
Width, widest point	6.30 ft / 1.90 m
Width, landing gear	6.50 ft / 1.98 m
Height, top, rotor hub	No data available
Height, top, tail fin	9.70 ft / 2.96 m
GR clearance, fuselage	1.30 ft / 0.40 m
GR clearance, T/R guard	3.10 ft / 0.95 m

Dimensions, Internal:

Cabin Length, max	9.08 ft / 2.77 m
Cabin Width, max	4.50 ft / 1.37 m
Cabin Height, max	5.00 ft / 1.52 m
Cabin Volume	42.0 ft ³ / 1.19 m ³
Baggage Volume	8.00 ft ³ / .023 m ³

Hourly Maintenance Cost:

\$133 - 148

Accommodations:

Standard seating	3 + 2
High density	3 + 4

Weights:

Max gross	3000 lb / 1361 kg
Empty, std acft	1481 lb / 672 kg
Useful load	1519 lb / 689 kg
Useful, with full fuel	743 lb / 337 kg
External load	2000 lb / 907 kg
Gross with ext load	3550 lb / 1610 kg

Average Fuel Consumption:

Gallons per hour (GPH)	27-29
Liters per hour (LPH)	101-111

Range:

Max Fuel	304 nm / 563 km
Max Payload	232 nm / 429 km
Aux fuel, no reserves	822 nm / 1523 km

Endurance:

Std fuel, no reserves	2.7 hrs
-----------------------	---------

Performance:

Service ceiling	16,000 ft / 4877 m
HIGE	8500 ft / 2591 m
HIGE, ISA+20°C	6000 ft / 1829 m
HOGE	6000 ft / 1829 m
HOGE, ISA+20°C	3100 ft / 945 m
ROC, oblique	1770 fpm / 540 m/min
Econ Cruise, S/L	130 kts / 241 km/hr
VNE	175 kts / 324 km/hr