



McDonnell Douglas MD 520N

TECHNICAL SPECIFICATIONS

Engine:

Manufacturer	Rolls Royce
Model	250 C20RS

Power Ratings:

Takeoff	450 shp / 336 kw
Max Continuous	435 shp / 324 kw

Transmission Ratings:

Take off	425 shp / 317 kw
Continuous	375 shp / 280 kw

Rotor Systems:

Main Rotor Blades	5
Tail Rotor Blades	Notar
Main Diameter	27.35 ft / 8.34 m

Dimensions External:

Length, fuselage	25.50 ft / 7.77 m
Length, T/R turning	No data available
Length, M/R turning	32.10 ft / 9.78 m
Width, fuselage	4.57 ft / 1.39 m
Width, widest point	6.60 ft / 2.01 m
Width, landing gear	6.30 ft / 1.92 m
Height, top, rotor hub	8.30 ft / 2.53 m
Height, top, tail fin	8.30 ft / 2.53 m
GR clearance, fuselage	1.40 ft / 0.43 m
GR clearance, T/R guard	4.30 ft / 1.31 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:

\$143 - 164

Accommodations:

Standard seating	3 + 2
High density	3 + 4

Weights:

Max gross	3350 lb / 1520 kg
Empty, std acft	1560 lb / 719 kg
Useful load	1764 lb / 800 kg
Useful, with full fuel	1332 lb / 604 kg
External load	2000 lb / 907 kg
Gross with ext load	3850 lb / 1764 kg

Average Fuel Consumption:

Gallons per hour (GPH)	31-35
Liters per hour (LPH)	119-131

Range:

Max Fuel	210 nm / 389 km
Max Payload	279 nm / 517 km
Aux fuel, no reserves	210 nm / 389 km

Performance:

Service ceiling	13,200 ft / 4024 m
HIGE	9300 ft / 2853 m
HIGE, ISA+20°C	5100 ft / 1554 m
HOGE	5600 ft / 1707 m
HOGE, ISA+20°C	1400 ft / 427 m
ROC, oblique	1546 fpm / 471 m/min
Econ Cruise, S/L	122 kts / 226 km/hr
VNE	142 kts / 229 km/hr