



Precision Aviation Training Academy

ROBINSON R-44 Raven II



*"The **Robinson R44** is a four-seat light helicopter produced by the Robinson Helicopter Company since 1992. Based on the company's two-place Robinson R22, the R44 features hydraulically assisted flight controls. The R44 was first flown on 31 March 1990, and received FAA certification in December 1992, with the first delivery in February 1993".*

General characteristics

- **Crew:** one or two pilots
- **Capacity:** four, including pilot
- **Payload:** 748 lb (340 kg)
- **Length:** 459" (11,65 m)
- **Rotor diameter:** 33 ft (10.1 m)
- **Tail rotor diameter:** 4 ft 10 in (1.5 m)
- **Height:** 10 ft 9 in (3.3 m)
- **Empty weight:** 1,450 lb (657.7 kg)
- **Loaded weight:** 2,500 lb (1,134 kg)
- **Powerplant:** 1 × Lycoming IO-540-AE1A5 6 cylinder, flat engine with fuel injection, 245 bhp (183 kW)
- **Fuel:** 100 low lead (100LL) fuel or 100/130.
- **Main tank capacity:** 31.6 US gallons (120 litres)
- **Main tank usable fuel:** 30.6 US gallons (116 litres)
- **Auxiliary tank capacity:** 18.5 US gallons (70 litres)
- **Auxiliary tank usable fuel:** 18.3 US gallons (69 litres)



Performance

- **Maximum speed:** 130 kts (240 km/h; 150 mph)
- **Cruise speed:** 110 kts (200 km/h; 130 mph)
- **Range:** 300 NM (560 km; 350 mi)
- **Fuel consumption:** 15 US gallons (57 l) of Avgas per hour
- **Altitude restrictions:** 14,000 ft (4,300 m) density altitude or 9,000 ft (2,700 m) above ground level in order to be able to reach ground within 5 minutes in case of fire.

