

# R44

HELICOPTERS

*Versatility, reliability,  
and simplicity have made the  
R44, the helicopter of choice for  
pilots around the globe*



## R44 HELICOPTERS

The exceptionally reliable and easy to maintain R44 has become the helicopter of choice throughout the world. R44s have a two-bladed rotor system, T-bar cyclic, and a crashworthy fuel system. Hydraulically boosted controls provide responsive handling by eliminating cyclic and collective feedback forces. Robinson offers three versions of its best-selling helicopter, each designed to meet the diverse needs of the helicopter industry.

### R44 RAVEN II

The Raven II has a 2+2 configuration and is powered by Lycoming's IO-540 fuel injected engine, delivering improved altitude performance and increased payload, without the need for carburetor heat.

### R44 RAVEN I

The Raven I has a 2+2 configuration and is powered by Lycoming's O-540 carbureted engine with carburetor heat assist, delivering performance and affordability.

### R44 CADET

The Cadet has the same airframe, rotor system and O-540 engine as the Raven I. The differences are the Cadet has a 2+Cargo configuration, its maximum gross weight is 2200 pounds, and its engine is derated to 210 take-off and 185 continuous. The lower weight and derated power provide increased performance margins at high altitudes and extend the time between overhaul to 2400 hours.

### R44S WITH FLOATS

Clippers I and II are Ravens with extra corrosion protection and equipped with floats for over-water operations. Fixed utility floats, which remain fully inflated, are available on both Clippers and the Cadet. Pop-out floats, which inflate within 2-3 seconds of activation, are available only on Clipper IIs.

## SPECIFICATIONS

|  | R44 Raven II / Clipper II  | R44 Raven I / Clipper I  | R44 Cadet / Cadet with Floats  |
|--|--|--|--|
| Engine   | Lycoming IO-540, six cylinder, fuel injected                                       | Lycoming O-540, six cylinder, carbureted                                 | Lycoming O-540, six cylinder, carbureted                                     |
| Horsepower   | Derated to 245 hp for takeoff and 205 hp continuous                                | Derated to 225 hp for takeoff and 205 hp continuous                      | Derated to 210 hp for takeoff and 185 hp continuous                          |
| Max. Gross Weight  | 2500 lb (1134 kg)  | 2400 lb (1089 kg)  | 2200 lb (998 kg)   |
| Empty Weight Approx. (including oil and standard avionics) | Raven II: 1505 lb (683 kg)<br>Clipper II Pop-out: 1570 lb (712 kg)                 | Raven I: 1450 lb (658 kg)<br>Clipper I: 1500 lb (680 kg)                 | Cadet: 1437 lb (652 kg)<br>Cadet w/ Floats: 1487 lb (674 kg)                 |
| Standard Fuel Capacity / Weight                            | 29.5 gal capacity / 177 lb (80 kg)   | 29.5 gal capacity / 177 lb (80 kg)                                       | 29.5 gal capacity / 177 lb (80 kg)   |
| Auxiliary Fuel Capacity / Weight                           | 17.0 gal capacity / 102 lb (46 kg)   | 17.0 gal capacity / 102 lb (46 kg)                                       | 17.0 gal capacity / 102 lb (46 kg)   |
| Pilot, Passenger, and Baggage (with standard fuel)         | Raven II: 818 lb (371 kg)<br>Clipper II Pop-out: 753 lb (342 kg)                   | Raven I: 773 lb (351 kg)<br>Clipper I: 723 lb (328 kg)                   | Cadet: 586 lb (266 kg)<br>Cadet w/ Floats: 536 lb (243 kg)                   |
| Cruise Speed at Max. Gross Weight                          | Raven II: Up to 109 kts (202 km/h)<br>Clipper II Pop-out: Up to 106 kts (196 km/h) | Raven I: Up to 108 kts (200 km/h)<br>Clipper I: Up to 101 kts (187 km/h) | Cadet: Up to 107 kts (198 km/h)<br>Cadet w/ Floats: Up to 100 kts (185 km/h) |
| Max. Range (no reserve)                                    | approx 300 nm (550 km)   | approx 300 nm (550 km)   | approx 300 nm (550 km)   |
| Hover Ceiling IGE  | 8950 ft at 2500 lb   | 6400 ft at 2400 lb   | 8750 ft at 2200 lb   |
| Hover Ceiling OGE  | 7500 ft at 2300 lb   | 4000 ft at 2300 lb   | 5250 ft at 2200 lb   |
| Rate of Climb  | Over 1000 fpm  | Over 1000 fpm  | Over at 1000 fpm   |
| Max. Operating Altitude                                    | 14,000 ft  | 14,000 ft  | 14,000 ft  |
| Electrical System  | 28 volt  | 28 volt  | 28 volt  |

## SERVICE AND TIME BETWEEN OVERHAUL (TBO)

No scheduled maintenance is required between 100-hour inspections. The engine and airframe TBO for Ravens is 2200 hours or 12 years whichever occurs first. The engine and airframe TBO for Cadets is 2400 hours or 12 years whichever occurs first. All life limited components have approved service lives of at least 2200 hours.

## WARRANTY

All R44 helicopters come with two-year or 1000-hour limited aircraft warranty.

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