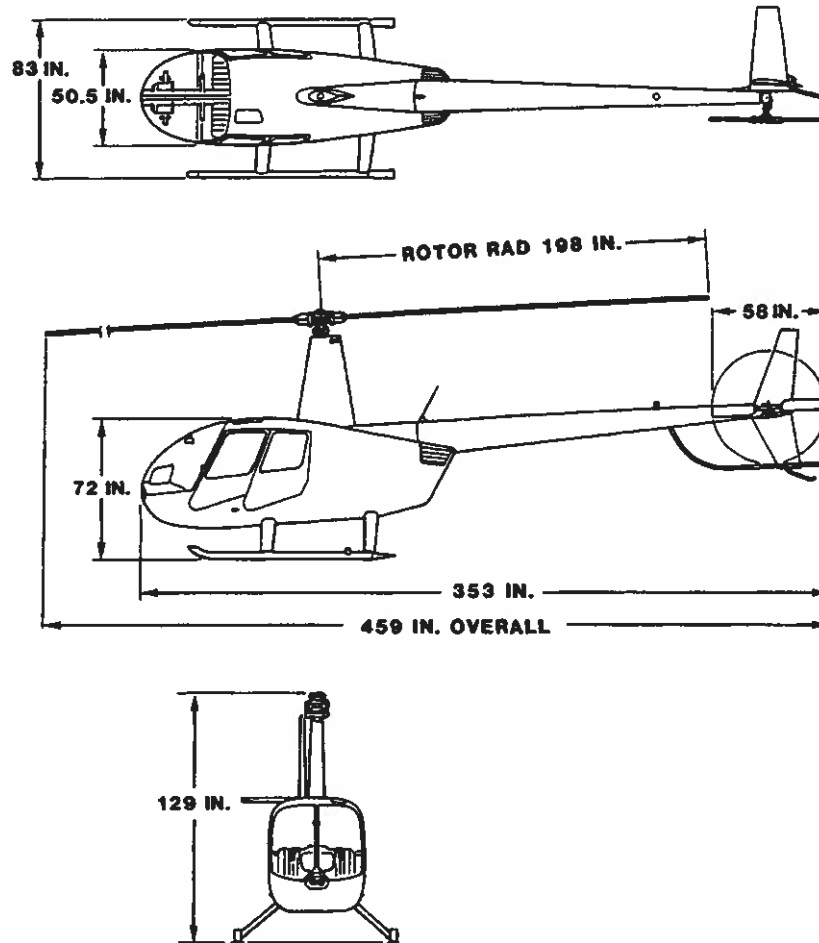


**ROBINSON
MODEL R44 II**

**SECTION 1
GENERAL**



THREE VIEW OF R44 HELICOPTER

DESCRIPTIVE DATA

MAIN ROTOR

Articulation	Free to teeter and cone, rigid inplane
Number of Blades	2
Diameter	33 feet
Blade Chord	10.0 inches inboard, 10.6 inches outboard
Blade Twist	-6 Degrees
Tip Speed @ 102% RPM	705 FPS

TAIL ROTOR

Articulation	Free to teeter, rigid inplane
Number of Blades	2
Diameter	4 feet 10 inches
Blade Chord	5.1 inches (constant)
Blade Twist	0
Precone Angle	1 Degree
Tip Speed @ 102% RPM	614 FPS

DRIVE SYSTEM

Engine to Upper Sheave:	Four double Vee-belts with 0.778:1 speed reducing ratio
Upper Sheave to Drive Line:	Sprag type overrunning clutch
Drive Line to Main Rotor:	Spiral-bevel gears with 11:57 speed reducing ratio
Drive Line to Tail Rotor:	Spiral-bevel gears with 31:27 speed increasing ratio