



Buying an RV

Why Choose Robin Coss Aviation

Robin Coss Aviation can offer you a build experience like no other. Whether you choose to build your own RV, completing our Quickbuild Plus, or decide to let us do all the work for you, you are guaranteed a wonderful experience.

RCA prides itself on keeping up with the latest technologies and new developments in the industry, allowing us to give you the best advice to suit your needs.

RCA has the most experience on RVs in the country and we are constantly introducing improvements into our standard builds.

With our turnkey operation, the owner of the aircraft does not have to lift a finger and deal with any red tape. This is all taken care of for him by our experienced staff members.

Boasting the latest tools and equipment, your RV is in safe hands with RCA!



What does the Standard VFR Package Include?

RV7/7a, RV8/RV8a, RV9/9a

Brand new Lycoming kit engine with roller tappet technology (0-360 180hp RV7, 8; 0-320 160hp RV9)

Fixed pitch propeller (Sensenich)

Electric elevator trim

Electric flaps

Flap indicator

Nav lights

Landing lights

EXP electronic circuit breaker system

Large screen EFIS system with backup ASI and VSI including engine monitoring onscreen

Com transponder and intercom

Leather seats and painted sides

Inclusive of all import, freight, registration fees etc

A turnkey operation inclusive of all that is needed to deliver a completed aircraft, including test flight and the first few hours inclusive of hangarage, fuel, pilot etc.

(Upgrades available to VP propeller and fuel injection, etc)

Specifications can change from time to time.

RV10

Brand new Lycoming kit engine with roller tappet technology (Fuel injected IO-540 260hp)

Variable pitch propeller (Hartzell blended aerofoil)

Electric elevator trim

Electric flaps

Flap indicator

Nav lights

Landing lights

EXP electronic circuit breaker system

EFIS system with backup ASI and VSI including engine monitoring onscreen

Com transponder and intercom

Full leather interior

Inclusive of all import, freight, registration fees etc

A turnkey operation inclusive of all that is needed to deliver a completed aircraft, including test flight and the first few hours inclusive of hangarage, fuel, pilot etc.

Specifications can change from time to time.

Please note that this a starting point. Certain aspects can be tailored around specific needs.

Which RV is right for you?

You need to ask yourself a couple of questions:

- 1) How many friends or family fly with you when you go flying?
- 2) Do you want to do aerobatics with your aircraft?
- 3) Do you want to fly a little slower with lower landing speeds?
- 4) How much can I afford?

These are the type of questions that we will ask you when helping you to choose which model is the right application for you. Consult Robin Coss Aviation for advice in this respect.

Specifications and Performance

RV-7 Specifications

Exterior Dimensions

Span	25 ft 0in.
Length	20 ft 4 in.
Height	5 ft 10 in
Wing Area	121 sq ft

Weights

Empty Weight	1061 - 1114 lbs
Gross Weight	1800 lbs

Loadings

Wing Loading	14.8 lb/sq ft
Power Loading	12.0 - 9.0 lb/hp

Powerplant/Systems

Engine	150-200 hp
Propeller	Fixed or C/S
Fuel Capacity	42 US gal

Other

Baggage	100 lbs
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RV-7a Specifications

Exterior Dimensions

Span	25 ft 0 in
Length	20 ft 4 in
Height	7 ft 10 in
Wing Area	121 sq ft

Weights

Empty Weight	1077 - 1130 lbs
Gross Weight	1800 lbs

Loadings

Wing Loading	14.8 lb/sq ft
Power Loading	12.0 - 9.0 lb/hp

Powerplant/Systems

Engine	150-200 hp
Propeller	Fixed or C/S
Fuel Capacity	42 US gal

Other

Baggage	100 lbs
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RV-7 Performance

Solo Weight 1400 lbs
Gross Weight 1800 lbs

160 hp

180 hp

200 hp

Empty weight and performance measured with Hartzell 2 Blade C/S prop

Speed - Solo Weight

Top Speed	202 mph	210 mph	217 mph
Cruise [75% @ 8000 ft]	192 mph	200 mph	207 mph
Cruise [55% @ 8000 ft]	173 mph	180 mph	187 mph
Stall Speed	51 mph	51 mph	51 mph

Speed - Gross Weight

Top Speed	201 mph	209 mph	216 mph
Cruise [75% @ 8000 ft]	191 mph	199 mph	206 mph
Cruise [55% @ 8000 ft]	172 mph	179 mph	186 mph
Stall Speed	58 mph	58 mph	58 mph

Ground Performance - Solo Weight

Takeoff Distance	300 ft	275 ft	250 ft
Landing Distance	350 ft	350 ft	350 ft

Ground Performance - Gross Weight

Takeoff Distance	650 ft	575 ft	500 ft
Landing Distance	500 ft	500 ft	500 ft

Climb/Ceiling - Solo Weight

Rate of Climb	1,900 fpm	2,200 fpm	2,550 fpm
Ceiling	21,000 ft	23,000 ft	25,500 ft

Climb/Ceiling - Gross Weight

Rate of Climb	1,400 fpm	1,650 fpm	1,900 fpm
Ceiling	18,500 ft	20,500 ft	22,500 ft

Range

Range [75% @ 8000 ft]	835 sm	775 sm	765 sm
Range [55% @ 8000 ft]	1,025 sm	950 sm	935 sm

RV-7a Performance

Solo Weight 1400 lbs
Gross Weight 1800 lbs

160 hp

180 hp

200 hp

Empty weight and performance measured with Hartzell 2 Blade C/S prop

Speed - Solo Weight

Top Speed	200 mph	208 mph	215 mph
Cruise [75% @ 8000 ft]	190 mph	198 mph	205 mph
Cruise [55% @ 8000 ft]	171 mph	178 mph	185 mph
Stall Speed	51 mph	51 mph	51 mph

Speed - Gross Weight

Top Speed	199 mph	207 mph	213 mph
Cruise [75% @ 8000 ft]	189 mph	197 mph	204 mph
Cruise [55% @ 8000 ft]	170 mph	177 mph	183 mph
Stall Speed	58 mph	58 mph	58 mph

Ground Performance - Solo Weight

Takeoff Distance	300 ft	275 ft	250 ft
Landing Distance	350 ft	350 ft	350 ft

Ground Performance - Gross Weight

Takeoff Distance	650 ft	575 ft	500 ft
Landing Distance	500 ft	500 ft	500 ft

Climb/Ceiling - Solo Weight

Rate of Climb	1,800 fpm	2,100 fpm	2,450 fpm
Ceiling	20,000 ft	22,000 ft	24,500 ft

Climb/Ceiling - Gross Weight

Rate of Climb	1,350 fpm	1,600 fpm	1,850 fpm
Ceiling	17,500 ft	19,500 ft	21,500 ft

Range

Range [75% @ 8000 ft]	825 sm	765 sm	755 sm
Range [55% @ 8000 ft]	1015 sm	940 sm	925 sm

RV-8 Specifications

Exterior Dimensions

Span	24 ft
Length	21 ft
Height	5 ft 7 in
Wing Area	116 sq ft

Weights

Empty Weight	1067 - 1120 lbs
Gross Weight	1800 lbs

Loadings

Wing Loading	15.5 lb/sq ft
Power Loading	12 - 9 lb/hp

Powerplant/Systems

Engine	150-200 hp
Propeller [in prototype]	Fixed or C/S
Fuel Capacity	42 US gal

Other

Baggage	125 lbs
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RV-8a Specifications

Exterior Dimensions

Span	24 ft
Length	20 ft 10 in
Height	7 ft 4 in
Wing Area	116 sq ft

Weights

Empty Weight	1067 - 1120 lbs
Gross Weight	1800 lbs

Loadings

Wing Loading	15.5 lb/sq ft
Power Loading	12 - 9 lb/hp

Powerplant/Systems

Engine	150-200 hp
Propeller [in prototype]	Fixed or C/S
Fuel Capacity	42 US gal

Other

Baggage	125 lbs
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RV-8 Performance

Solo Weight 1400 lbs
Gross Weight 1800 lbs

160 hp

180 hp

200 hp

Empty weight and performance measured with Hartzell 2 Blade C/S prop

Speed - Solo Weight

Top Speed	206 mph	214 mph	222 mph
Cruise [75% @ 8000 ft]	197 mph	204 mph	212 mph
Cruise [55% @ 8000 ft]	175 mph	182 mph	189 mph
Stall Speed	51 mph	51 mph	51 mph

Speed - Gross Weight

Top Speed	205 mph	213 mph	221 mph
Cruise [75% @ 8000 ft]	195 mph	203 mph	210 mph
Cruise [55% @ 8000 ft]	173 mph	180 mph	187 mph
Stall Speed	58 mph	58 mph	58 mph

Ground Performance - Solo Weight

Takeoff Distance	300 ft	275 ft	250 ft
Landing Distance	350 ft	350 ft	350 ft

Ground Performance - Gross Weight

Takeoff Distance	650 ft	575 ft	500 ft
Landing Distance	500 ft	500 ft	500 ft

Climb/Ceiling - Solo Weight

Rate of Climb	2,000 fpm	2,300 fpm	2,700 fpm
Ceiling	21,000 ft	23,000 ft	25,500 ft

Climb/Ceiling - Gross Weight

Rate of Climb	1,400 fpm	1,650 fpm	1,900 fpm
Ceiling	18,500 ft	20,500 ft	22,500 ft

Range

Range [75% @ 8000 ft]	855 sm	790 sm	780 sm
Range [55% @ 8000 ft]	1,030 sm	955 sm	940 sm

RV-8a Performance

Solo Weight 1400 lbs
Gross Weight 1800 lbs

160 hp

180 hp

200 hp

Empty weight and performance measured with Hartzell 2 Blade C/S prop

Speed - Solo Weight

Top Speed	204 mph	212 mph	220 mph
Cruise [75% @ 8000 ft]	195 mph	202 mph	210 mph
Cruise [55% @ 8000 ft]	173 mph	180 mph	187 mph
Stall Speed	51 mph	51 mph	51 mph

Speed - Gross Weight

Top Speed	203 mph	211 mph	219 mph
Cruise [75% @ 8000 ft]	193 mph	201 mph	208 mph
Cruise [55% @ 8000 ft]	171 mph	178 mph	184 mph
Stall Speed	58 mph	58 mph	58 mph

Ground Performance - Solo Weight

Takeoff Distance	300 ft	275 ft	250 ft
Landing Distance	350 ft	350 ft	350 ft

Ground Performance - Gross Weight

Takeoff Distance	650 ft	575 ft	500 ft
Landing Distance	500 ft	500 ft	500 ft

Climb/Ceiling - Solo Weight

Rate of Climb	1,900 fpm	2,200 fpm	2,600 fpm
Ceiling	20,000 ft	22,000 ft	24,500 ft

Climb/Ceiling - Gross Weight

Rate of Climb	1,350 fpm	1,600 fpm	1,800 fpm
Ceiling	17,500 ft	19,500 ft	21,500 ft

Range

Range [75% @ 8000 ft]	845 sm	780 sm	770 sm
Range [55% @ 8000 ft]	1020 sm	945 sm	930 sm

RV-9 Specifications

Exterior Dimensions

Span	28 ft
Length	20 ft 5 in
Height	6 ft
Wing Area	124 sq ft

Weights

Empty Weight	1015 - 1057 lbs
Gross Weight	1600 - 1750 lbs

Loadings

Wing Loading	12.9 - 14.1lb/sq ft
Power Loading	13.6 - 10.9 lb/hp

Powerplant/Systems

Engine	118 -160 hp
Propeller	Fixed or C/S
Fuel Capacity	36 US gal

Other

Baggage (118, 160hp)	75 lbs
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RV-9a Specifications

Exterior Dimensions

Span	28 ft
Length	20 ft 5 in
Height	7 ft 10 in
Wing Area	124 sq ft

Weights

Empty Weight	1028 - 1075 lbs
Gross Weight	1600 - 1750 lbs

Loadings

Wing Loading (118, 160hp)	12.9 - 14.1 lb/sq ft
Power Loading	13.6 -10.9 lb/hp

Powerplant/Systems

Engine	118 -160 hp
Propeller	Fixed or C/S
Fuel Capacity	36 US gal

Other

Baggage (118, 160hp)	75 lbs
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RV-9 Performance

Solo Weight 1350 lbs

Gross Weight 1600 - 1750 lbs

118 hp

135 hp*

160 hp

Empty weight and performance measured with fixed pitch propeller

Speed - Solo Weight

Top Speed	173 mph	180 mph	197 mph
Cruise [75% @ 8000 ft]	167 mph	175 mph	189 mph
Cruise [55% @ 8000 ft]	151 mph	158 mph	169 mph
Stall Speed	44 mph	44 mph	44 mph

Speed - Gross Weight

Top Speed	172 mph	178 mph	196 mph
Cruise [75% @ 8000 ft]	166 mph	174 mph	188 mph
Cruise [55% @ 8000 ft]	150 mph	157 mph	168 mph
Stall Speed	48 mph	49 mph	50 mph

Ground Performance - Solo Weight

Takeoff Distance	350 ft	325 ft	300 ft
Landing Distance	250 ft	275 ft	300 ft

Ground Performance - Gross Weight

Takeoff Distance	525 ft	500 ft	475 ft
Landing Distance	355 ft	410 ft	450 ft

Climb/Ceiling - Solo Weight

Rate of Climb	1,200 fpm	1,450 fpm	2,000 fpm
Ceiling	17,500 ft	20,500 ft	24,500 ft

Climb/Ceiling - Gross Weight

Rate of Climb	1,000 fpm	1,150 fpm	1,400 fpm
Ceiling	14,500 ft	16,000 ft	19,000 ft

Range

Range [75% @ 8000 ft]	875 sm	745 sm	710 sm
Range [55% @ 8000 ft]	1,035 sm	910 sm	860 sm

RV-9a Performance

Solo Weight 1350 lbs

Gross Weight 1600 - 1750 lbs

118 hp

135 hp*

160 hp

Empty weight and performance measured with fixed pitch propeller

Speed - Solo Weight

Top Speed	171 mph	178 mph	195 mph
Cruise [75% @ 8000 ft]	165 mph	173 mph	187 mph
Cruise [55% @ 8000 ft]	149 mph	156 mph	167 mph
Stall Speed	44 mph	44 mph	44 mph

Speed - Gross Weight

Top Speed	170 mph	176 mph	194 mph
Cruise [75% @ 8000 ft]	164 mph	172 mph	186 mph
Cruise [55% @ 8000 ft]	148 mph	155 mph	166 mph
Stall Speed	48 mph	49 mph	50 mph

Ground Performance - Solo Weight

Takeoff Distance	350 ft	325 ft	300 ft
Landing Distance	250 ft	275 ft	300 ft

Ground Performance - Gross Weight

Takeoff Distance	525 ft	500 ft	475 ft
Landing Distance	375 ft	410 ft	450 ft

Climb/Ceiling - Solo Weight

Rate of Climb	1,150 fpm	1,400 fpm	1,900 fpm
Ceiling	17,000 ft	20,000 ft	24,500 ft

Climb/Ceiling - Gross Weight

Rate of Climb	950 fpm	1,100 fpm	1,400 fpm
Ceiling	14,000 ft	15,500 ft	18,500 ft

Range

Range [75% @ 8000 ft]	865 sm	735 sm	700 sm
Range [55% @ 8000 ft]	1025 sm	900 sm	850 sm

RV-10 Specifications

Exterior Dimensions

Span	31 ft 9in.
Length	24 ft 5 in.
Height	8 ft 8 in
Wing Area	148 sq ft

Weights

Empty Weight	1520 lbs
Gross Weight	2700 lbs

Loadings

Wing Loading	18.6 lb/sq ft
Power Loading	13.5 - 10.4 lb/hp

Powerplant/Systems

Engine	210-260 hp
Propeller	Hartzell C/S
Fuel Capacity	60 US gal

Other

Baggage	100 lbs
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RV-10 Performance

Speed and ranges in statute mph.

*235 hp performance estimated.

Light Weight 2200 lbs	210 hp	* 235 hp	260 hp
Speed			
Top Speed	200 mph	204 mph	211 mph
Cruise [75% @ 8000 ft]	190 mph	194 mph	201 mph
Cruise [55% @ 8000 ft]	170 mph	174 mph	180 mph
Stall Speed	57 mph	57 mph	57 mph
Ground Performance			
Takeoff Distance	475 ft	415 ft	360 ft
Landing Distance	500 ft	500 ft	525 ft
Climb/Ceiling			
Rate of Climb	1,400 fpm	1,669 fpm	1,950 fpm
Ceiling (est)	17,077 ft	20,538 ft	24,000 ft

Gross Weight 2700 lbs	210 hp	* 235 hp	260 hp
Empty Weight	1,520 lbs	1,585 lbs	1,600 lbs
Speed			
Top Speed	197 mph	201 mph	208 mph
Cruise [75% @ 8000 ft]	186 mph	190 mph	197 mph
Cruise [55% @ 8000 ft]	166 mph	170 mph	176 mph
Stall Speed	63 mph	63 mph	63 mph
Ground Performance			
Takeoff Distance	686 ft	583 ft	500 ft
Landing Distance	650 ft	650 ft	650 ft
Climb/Ceiling			
Rate of Climb	1150 fpm	1,221 fpm	1,450 fpm
Ceiling (est)	13,678 ft	16,839 ft	20,000 ft
Range			
Range [75% @ 8000 ft]	951 sm	883 sm	825 sm
Range [55% @ 8000 ft]	1,153 sm	1070 sm	1000 sm

RV-12 Specifications

Exterior Dimensions

Span	26' 9"
Length	19' 11"
Height	8' 4"
Wing Area	127 sq. ft.

Weights

Empty Weight	740 lbs
Gross Weight	1320 lbs

Loadings

Wing Loading <i>(gross weight)</i>	10.4 lbs/sq. ft.
Power Loading <i>(gross weight)</i>	13.2 lbs/hp

Powerplant/Systems

Engine	Rotax 912ULS
Propeller	Sensenich Composite ground adjustable
Fuel Capacity	20 US gallons

Other

Cabin Width	43"
Baggage	50 lbs



RV-12 Performance

Engine

Rotax 912ULS

Speed - Gross Weight

Top Speed	135 mph
Cruise (7500' @ 5500 rpm)	131 mph
Cruise (7500' @ 5000 rpm)	116 mph
Stall Speed	47 mph

Ground Performance - Gross Weight

Takeoff Distance	700 ft.
Landing Distance	525 ft.

Climb/Ceiling - Gross Weight

Rate of Climb	900 fpm
Ceiling	13,800 ft.

Range

Range (7500' @ 5500 rpm)	555 miles
Range (7500' @ 5000 rpm)	614 miles

Engines

The best choice for your aircraft is an RCA engine. It is constructed using genuine Lycoming certified parts and is assembled in our Lycoming approved factory. All engines come standard with roller tappet technology. 100% new and 100% factory backed!

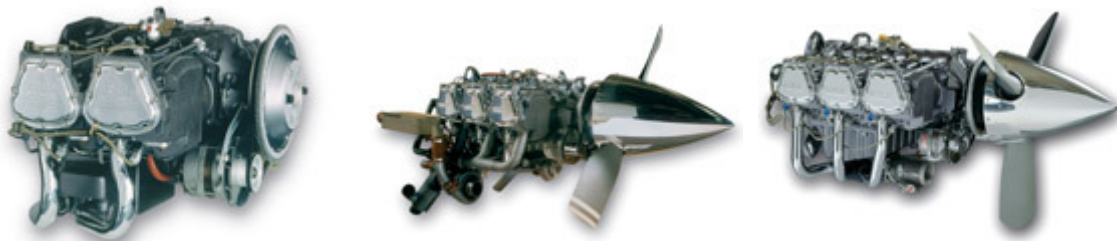
Why Roller Tappet Technology?

The roller tappet provides the tappet a roller to ride upon the camshaft lobe instead of the sliding type interface used with standard tappets. This is an advantage as this style tappet may cause less camshaft lobe wear and help provide longer cam lobe and tappet life than the sliding type that has been used for years. The roller tappet has been used extensively in the automotive industry and has a proven success rate there.

What Does an RCA Engine Include?

All standard engine accessories are included with the engine. Your RCA 320,360,390 and 540 series engine will include: propeller governor drive adapter (on constant speed models), propeller governor drive gear (on constant speed models), propeller governor plumbing and attaching hardware (on constant speed models), Textron Lycoming nitride cylinder assemblies, 2 new Slick magnetos, ignition harness and 8 AutoLite spark plugs, 12V Sky Tec lightweight starter, new Precision carburettor or fuel injection system, new fuel pump, inter-cylinder baffles, dipstick tube and dipstick, oil filter adapter and oil filter, static bay balance to within 2 grams, vacuum pump drive adapter and drive, starter gear support and ring gear, engine logbook and operators manual.

LYCOMING
A Textron Company



Great Products for your Aircraft

DYNON SKYVIEW



SkyView Overview: Experimental and LSA pilots know that they have the most technologically advanced GA aircraft flying. SkyView continues that tradition with the next generation of glass panels, offering redundant networks and systems, incredibly bright screens, design flexibility, and future upgradability unsurpassed by anything else flying.

The SkyView System is a powerful and flexible avionics platform, and features will be added for years to come. This table shows the SkyView current features.

DETAILED FEATURE LIST

HARDWARE

SV-D1000 10" Display
 SV-D700 7" Display
 Backup Battery (SV-BAT-320)
 ADAHRS - First (SV-ADAHRS-200)
 ADAHRS - Additional (SV-ADAHRS-201)
 EMS Hardware/Module (SV-EMS-220)
 GPS Receiver Puck (SV-GPS-250)
 Autopilot Servos

SYSTEM SOFTWARE

Clock - Local
 Clock - Zulu
 Screen Dimming
 Master Power Voltmeter
 Internal Battery Voltmeter
 Charging Status
 Backup/Restore
 Measurement Units Setting
 Messaging/Alerts
 Multiple ADAHRS - Manual Switchover
 Multiple ADAHRS - Auto Switchover
 Display Synchronization

EXTERNAL DATA INTERFACES

USB Thumb Drive Firmware Updates
 Altitude Encoder
 NMEA Input (position, time, speed)
 NMEA Input displayed on HSI
 GPS Aviation Format Input (G430/530) displayed on HSI
 SL30 NAV Input
 OEM display configuration locking w/ single screen display mode

PRIMARY FLIGHT DISPLAY

Split Screens
 Synthetic Vision - Land
 Synthetic Vision - Oceans
 Synthetic Vision - Lakes
 Synthetic Vision - Runways
 Synthetic Vision - Obstacles
 On/Off Toggle (Synthetic Vision - Artificial Horizon)
 Airspeed Indicator

Airspeed Trend
 Vx/Vy Markers
 Altimeter
 Vertical Speed Indicator
 Artificial Horizon (pitch lines, roll scale, chevrons)
 Angle of Attack
 Turn Rate
 Ball
 Compass/Heading
 Compass Rose on Horizon
 GPS Ground Track Pointer
 HSI CDI Needle
 HSI GS Needle
 HSI Bearing Needles
 HSI Distance to Waypoint
 Outside Air Temperature
 True Airspeed
 Density Altitude
 Flight Path Indicator
 Wind Vector

ENGINE MONITORING

Flexible Gauge Layout (layout editor)
 Flexible Pin Assignments
 Tachometer
 Manifold Pressure
 Tachometer
 EGTs
 CHTs
 GP thermocouple
 14 Fully Configurable Thermocouples
 Oil Temp
 Oil Pressure
 Coolant Temp
 Coolant Pressure
 Fuel Pressure
 Ammeter
 Voltmeter
 Fuel Flow
 Fuel Level
 Trim Position
 Flap Position
 Contacts

General Purpose Inputs (customizable)

Hubbs Meter
 Tach Timer
 Percent Power
 Automatic LOP / ROP Information
 Fuel Computer
 Flight Timer
 Leaning Mode
 EMS Warning Light Output

MOVING MAP

Track Up Mode
 Worldwide Terrain
 Terrain Altitude Warning (yellow/red overlay)
 Oceans
 Lakes
 Elevation Color Shading (brown/green/white)
 Zooming
 North Arrow
 GPS Ground Track w/Arcs
 Path Projection Line
 Navigational Data - (Airports, Airspace, NavAids)
 Navigational Data - (Obstacles)
 Map Text (GPS Ground Speed, Altitude)
 Direct To*
 Map Text (DTW, ETE)*
 Basic Aviation Data Lookup*
 Nearest Airports*
 GPS Fix Status

AUTOPILOT

Altitude Hold
 Altitude Select/Change
 Altitude Preselect
 Airspeed Limits
 Heading Hold
 Track Hold
 Heading/Track Select
 Heading/Track Preselect
 HSI NAV
 Vertical Speed Hold
 Vertical Speed Select

Pricing

Product

RV-7 / 7a
RV-8 / 8a
RV-9 / 9a
RV-10
RV-12

Price

From R1 million
From R1 million
From R1 million
From R1.65 million
POA

Prices subject to change. The above worked out at US\$1 = R7.00
Please note that the above prices exclude VAT and will be charged in Rands at the current exchange rate.

For more information on the RV Series, please visit www.vansaircraft.com
For more information on Robin Coss Aviation, please visit www.cossaviation.co.za