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RANS S-6ES COYOTE II SPECIFICATIONS AND PERFORMANCE

SPECIFICATIONS 52HP 65HP 80HP/100HP

Wing Span.....	34.5ft.....	34.5 ft	34.5 ft
Area*	155.25 sq ft.....	155.25 sq ft.....	155.25 sq ft
Mean Chord	4 ft 6 in	4 ft 6 in.....	4 ft 6 in
Aspect	7.66:1.....	7.66:1	7.66:1
Length	20 ft	20 ft	20 ft
Height**	9 ft.....	9 ft	9 ft
Cockpit Width.....	45 in.....	45 in.....	45 in
Headroom	39 in.....	39 in.....	39 in
Legroom	41 in.....	41 in.....	41 in
Number of Seats	2.....	2	2
Doors.....	2.....	2	2
Landing Gear***	F/TD/TR.....	F/TD/TR.....	F/TD/TR
Baggage Volume****	6 cu ft.....	6 cu ft.....	6 cu ft
Baggage Capacity	50 lbs	50 lbs.....	50 lbs
Aux. Baggage Volume	7 cu ft.....	7 cu ft.....	7 cu ft
Aux. Baggage Capacity..	30 lbs	30 lbs.....	30 lbs
Fuel Capacity	18 gal US.....	18 gal US.....	18 gal US

POWER PLANT

Engine	Rotax 503	Rotax 582	Rotax 912/912S
Output.....	52 hp.....	65 hp	80 hp /100 hp
Oil Capacity†.....	n/a.....	2.5 qts.....	3.0qts
Coolant Capacity.....	n/a.....	4.4qts.....	4.4 qts
Propeller Diameter	66 in to 72 in	66 in to 72 in.....	66 in to 72 in
Propeller Type	Wood	Wood	Wood
Gear Reduction	1:2.58.....	1:2.58	1:2.27/1:2.43
Fuel G.P.H.....	4.0 gal @ 85%	5.75 gal @ 85%.....	4.1/4.5 gal @ 80%

PERFORMANCE

Take Off Roll	235 ft.....	160 ft	190 ft /180 ft
Rate of Climb	500fpm	900 fpm.....	1000 fpm/1400fpm
Service Ceiling	12,500 ft.....	17,000 ft.....	17,000ft/17,500ft
Cruise.....	80 mph	95 mph.....	100 mph/ 108 mph
VNE	120 mph.....	120 mph	120 mph
Stall Clean.....	38 mph.....	39 mph	41 mph
Stall Flaps	33mph.....	34 mph	36 mph
Roll Rate	70° / sec.....	70° / sec.....	70° / sec
Glide Ratio	9:1	9:1	9:1
Landing Roll	250 ft.....	250 ft	250 ft
Endurance	4.5 hrs.....	3.1 hrs	4.4hrs/4 hrs
Range	360 miles	295 miles	440miles/432miles

WEIGHTS AND LOADINGS

Gross Weight	1000 lbs	1030 lbs.....	1100 lbs
Empty Weight	500 lbs	530 lbs.....	600 lbs
Useful Load	500lbs.....	500 lbs.....	500 lbs
Wing Loading	6.44 lbs	6.44 lbs.....	6.5 lbs
Power Loading	19.2 lbs	15.3 lbs.....	12.6 lbs
Limit Load Factors.....	+4-2	+4-2	+4-2

*Larger Chord Aileron/Flaps available as option Area-2 (166.25 sq. ft.)
 ** Trike height is shown, Taildragers are 6 ft.
 *** F/TD/TR=Fixed Taildragger/Trike
 ****Baggage Compartment Optional
 Performance at sealevel and maximum gross weight.

STANDARD EQUIPMENT

- Welded 4130 Cockpit cage comes powder coated
- Aluminum tube tail cone assemblies from pre-drilled parts
- Cabin skylight
- Root rib tension system on wings, ailerons and flaps
- Dual rudder pedals
- Single Hydraulic toe brakes
- Aluminum wheels
- Aircraft grade tires
- Tapered spring steel main gear
- Telescoping nose gear or steerable tail wheel option available
- Deluxe Upholstered seats with map pockets, adjust fore and aft, 4 positions
- Dual control sticks
- Center panel throttle
- Center flap handle
- 4 position flaps
- Aluminum framed LEXAN bubble doors
- Dual air vents
- Anodized aluminum airfoil lift struts
- 3" Main wing spar
- 2" Trailing wing spar
- In-cockpit fuel sump drain
- 9 Gallon fuel tank in each wing
- Lap and shoulder belts
- Differential Ailerons
- Dual elevator horns
- Push pull tube operated elevator
- Ailerons operated by cables and push-pull tubes
- Ball bearing aircraft control pulleys
- Aluminum tail ribs
- Folding tail, wings and jury struts
- Double cable braced tail
- Aluminum tail ribs
- 4 Oz. DACRON skin in choice of colors

ENGINE INSTALL KIT EQUIPMENT

- 2-Blade wood prop
- Cowling with ¼ turn fasteners
- 4-Point rubber isolated engine mount
- ASI, Hourmeter, RPM
- Engine instruments (vary with engine install choice)
- Cooling system (vary with engine install choice)
- Muffler (vary with engine install choice)
- Hardware, Wiring, Hoses, and Filters

The S-6ES is an FAA Approved 51% Kit In Standard or Quick Build Form - No welding required. Clear coating of covering recommended. Order our video to learn the how-to's of clear coating.

BUILD TIME: 300 to 500 HOURS
QUICK BUILD BUILD TIME: 150 to 250 HOURS

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