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## RANS S-6ES 116 WING COYOTE II SPECIFICATIONS AND PERFORMANCE

### SPECIFICATIONS 65HP 80HP/100HP

Wing Span.....	29.0 ft.....	29.0 ft
Area* .....	116 sq ft.....	116 sq ft
Mean Chord .....	4 ft.....	4 ft
Aspect .....	7.25:1.....	7.25:1
Length .....	20 ft.....	20 ft
Height** .....	9 ft.....	9 ft
Cockpit Width.....	45 in.....	45 in
Headroom .....	39 in.....	39 in
Legroom .....	41 in.....	41 in
Number of Seats .....	2.....	2
Doors.....	2.....	2
Landing Gear*** .....	F/TD/TR.....	F/TD/TR
Baggage Volume**** .....	6 cu ft.....	6 cu ft
Baggage Capacity.....	50 lbs.....	50 lbs
Aux. Baggage Volume ...	7 cu ft.....	7 cu ft
Aux. Baggage Capacity..	30 lbs.....	30 lbs
Fuel Capacity .....	18 gal US.....	18 gal US

### POWER PLANT

Engine .....	Rotax 582 .....	Rotax 912/912S
Output.....	65 hp.....	80 hp /100 hp
Oil Capacity†.....	2.5 qts.....	3.0qts
Coolant Capacity .....	4.4qts.....	4.4 qts
Propeller Diameter .....	66 in to 72 in .....	66 in to 72 in
Propeller Type .....	Wood .....	Wood
Gear Reduction .....	1:2.58.....	1:2.27/1:2.43
Fuel G.P.H.....	5.75 gal @ 85%.....	4.25 gal @ 80%

### PERFORMANCE

Take Off Roll .....	220 ft.....	250 ft /240 ft
Rate of Climb .....	700 fpm.....	900 fpm/1200fpm
Service Ceiling .....	15,000 ft.....	15,500ft/16,000ft
Cruise.....	100 mph.....	105 mph/110 mph
VNE .....	130 mph.....	130 mph
Stall Clean.....	47 mph.....	50 mph
Stall Flaps .....	42 mph.....	45 mph
Roll Rate .....	90°/sec.....	90°/sec
Glide Ratio .....	8:1.....	8:1
Landing Roll .....	275 ft.....	295 ft
Endurance.....	3.1 hrs.....	4.4 hrs/4 hrs
Range.....	310 miles.....	506miles/490miles

### WEIGHTS AND LOADINGS

Gross Weight .....	1020 lbs.....	1200 lbs
Empty Weight.....	520 lbs.....	660 lbs
Useful Load .....	500 lbs.....	540 lbs
Wing Loading .....	8.6 lbs.....	9.48 lbs
Power Loading .....	15.38 lbs.....	13.75 lbs
Limit Load Factors.....	+4-2 .....	+4-2

\*Larger Chord Aileron/Flaps available as option Area-2 (166.25 sq. ft.)

\*\* Trike height is shown, Taildragger 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 assembles 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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