



4600 Highway 183 Alternate
 Hays, Kansas 67601
 (785) 625-6346
 FAX (785) 625-2795
 www.rans.com

RANS S-6S 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	21 ft.....	21 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

	582	912/912S
Engine	Rotax 582.....	Rotax 912/912S
Output	65 hp.....	80 hp/100 hp
Oil Capacity	2.5 qts.....	3.0 qts
Coolant Capacity.....	4.4 qts.....	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%.....	4.1/4.5 gal@80%

PERFORMANCE

Take Off Roll	220 ft.....	250ft/240ft
Rate of Climb	700 fpm.....	900 fpm/1200fpm
Service Ceiling	15,000 ft.....	15,500ft/16,000ft
Cruise	100 mph.....	115 mph/124 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.....	506 miles/496 miles

WEIGHTS AND LOADINGS

Gross Weight	1100 lbs.....	1200 lbs
Empty Weight	600 lbs.....	675 lbs
Useful Load	500 lbs.....	525 lbs
Wing Loading	9.48 lbs.....	10.34 lbs
Power Loading	17.0 lbs.....	15.0 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, Taildraggers are 6 ft.

***F/TD/TR=Fixed Taildragger/ Trike

Performance at sea level and maximum gross weight

STANDARD EQUIPMENT

- Welded 4130 cockpit cage comes powder coated
- Aluminum tube tail cone
- Most parts powder coated or anodized
- Full interior kit and baggage compartment
- Cabin skylight
- Dual rudder pedals
- Single hydraulic toe brakes
- Aluminum wheels
- Aircraft grade tires
- Tapered spring steel main gear
- Telescoping steerable nose gear or steerable tail wheel option available
- Deluxe Upholstered seats with map pockets, adjust fore and aft, 4 positions
- Dual control sticks
- Single Panel mount throttle
- Center flap handle
- 4 Position flaps
- Aluminum framed LEXAN bubble doors
- Dual air vents
- Aluminum airfoil 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 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
- Gear leg fairings
- 2.7 oz. Aircraft fabric
- All tapes, inspection plates, lacing
- Exit fairings and fabric glue

ENGINE INSTALL KIT EQUIPMENT

- 2-Blade wood prop
- Low drag fiberglass cowling and 12" spinner
- Cowling removes quickly with ¼ turn fasteners
- 4-Point rubber isolated engine mount
- ASI, Hourmeter, RPM
- Engine instruments (vary with engine install choice)
- Muffler (vary with engine install choice)
- Cooling system (vary with engine install choice)
- 12" Spinner and Spacer
- Hardware, Wiring, Hoses, and Filters

The S-6S is an FAA Approved 51% Kit In Standard or Quick Build Form-No welding required.

BUILD TIME: 500 to 700 HOURS

QUICK-BUILD BUILD TIME: 250 to 350 HOURS

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