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## RANS S-9 CHAOS SPECIFICATIONS AND PERFORMANCE

SPECIFICATIONS	47 HP	65 HP
Wing Span.....	22.0 ft.....	22.0 ft
Area.....	91.5 sq ft.....	91.5 sq ft
Mean Chord.....	4 ft 2 in.....	4 ft 2 in
Aspect.....	5.3:1.....	5.3:1
Length.....	15 ft 8 in.....	15 ft 8 in
Height.....	4 ft 10 in.....	4 ft 10 in
Cockpit Width.....	26 in.....	26 in
Headroom.....	38 in.....	38 in
Legroom.....	45.5 in.....	45.5 in
Number of Seats.....	1.....	1
Doors.....	1.....	1
Landing Gear*	F/TD.....	F/TD
Fuel Capacity**	9 or 18 gal US.....	9 or 18 gal US

POWER PLANT	503	582
Engine.....	Rotax 503.....	Rotax 582
Output.....	47 hp.....	65 hp
Oil Capacity.....	n/a.....	2.5 qts
Coolant Capacity.....	n/a.....	4.4 qts
Propeller Diameter.....	64 in to 70 in.....	64 in to 70 in
Propeller Type.....	Wood.....	Wood
Gear Reduction.....	1:2.58.....	1:2.58
Fuel G.P.H.....	4.0 gal @ 85%.....	5.75 gal @ 85%

PERFORMANCE	
Take Off Roll.....	250 ft..... 200 ft
Rate of Climb.....	800 fpm..... 1000 fpm
Service Ceiling.....	13,500 ft..... 15,000 ft
Cruise.....	90 mph..... 100 mph
VNE.....	130 mph..... 130 mph
Stall Clean.....	38 mph..... 41 mph
Roll Rate.....	100° / sec..... 100° / sec
Glide Ratio.....	8:1..... 8:1
Landing Roll.....	400 ft..... 400 ft
Endurance.....	2.25 hrs/4.5 hrs..... 1.56 hrs/3.13 hrs
Range.....	202.5 miles/405 miles..... 156.5 miles/313 miles

WEIGHTS AND LOADINGS	
Gross Weight.....	670 lbs..... 710 lbs
Empty Weight.....	340 lbs..... 375 lbs
Useful Load.....	330 lbs..... 335 lbs
Wing Loading.....	7.32 lbs..... 7.76 lbs
Power Loading.....	14.2 lbs..... 11.0 lbs
Limit Load Factors.....	+6-4..... +6-4

\*F/TD=Fixed Taildragger  
 \*\*Double the Range with a second optional wing tank.  
 Performance at sealevel and maximum gross weight.

### STANDARD EQUIPMENT

- ROTAX engine install kits (see pricing info)
- 4130 Welded steel fuselage and tail group
- Heat treated steel landing gear
- 3" Main spars
- 2" Aft spars
- Cable operated toe brakes
- Full span 2:1 differential ailerons
- Aluminum leading edge wrap
- 5" Aluminum wheels
- PVC aileron gap seals
- Trussed ribs
- 9 Gallon wing tank
- Header tank
- Adjustable seat fore and aft
- Welded Aluminum one piece canopy frame
- 2.7 ounce aircraft covering fabric
- All Surface Tapes, glue, lacing, inspection plates and exit covers
- In-flight pitch trim
- In-flight manual start
- "Deep Set" panel
- Roll over protection
- Shoulder and lap belt
- Dual elevator hors
- Push-pull elevator tube
- Cable operated rudder
- Pre-molded cowling and composite spinner
- Heavy duty 4130 welded steel engine mount with 4 point isolation
- Under the wing windows
- Cockpit air inlet vent
- Fuselage foot peg and wing step
- Ball bearing aircraft control pulleys
- Folding tail
- Quick knockdown (20 minutes)
- Dual cable braced tail
- Steerable tail wheel
- Wheel Pants
- Aluminum airfoil struts

The S-9 Chaos is an FAA Approved 51% Kit – No welding required.

**BUILD TIME:** 300 to 500 hours

RANS, Inc. reserves the right to make changes to prices, specifications or models or add improvements at any time without notice or obligation. Some measurements are approximate. Many photos show optional equipment.

RANS Products—Made in U.S.A.