

RANS

RANS S-12XL AIRAILE SPECIFICATIONS AND PERFORMANCE

SPECIFICATIONS	52 HP	65 HP	80HP/100HP
Wing Span.....	31.0 ft.....	31.0 ft.....	31.0 ft.....
Area.....	152 sq ft.....	152 sq ft.....	152 sq ft.....
Mean Chord.....	4 ft 10.5 in.....	4 ft 10.5 in.....	4 ft 10.5 in.....
Aspect.....	6.33:1.....	6.33:1.....	6.33:1.....
Length.....	20 ft 6 in.....	20 ft 6 in.....	20 ft 6 in.....
Height.....	93 in.....	93 in.....	93 in.....
Cockpit Width.....	41 in.....	41 in.....	41 in.....
Headroom.....	41.5 in.....	41.5 in.....	41.5 in.....
Legroom.....	44.5 in.....	44.5 in.....	44.5 in.....
Number of Seats.....	2.....	2.....	2.....
Doors.....	2.....	2.....	2.....
Landing Gear*.....	F/TR.....	F/TR.....	F/TR.....
Baggage Volume**.....	n/a.....	n/a.....	n/a.....
Baggage Capacity.....	n/a.....	n/a.....	n/a.....
Fuel Capacity***.....	9 gal US.....	9 gal US.....	9 gal US.....

POWER PLANT	503	582	912/912S
Engine.....	Rotax 503.....	Rotax 582.....	Rotax 912/912S.....
Output.....	52 hp.....	65 hp.....	80 hp/100 hp.....
Oil Capacity.....	n/a.....	2.5 qts.....	3.0 qts.....
Coolant Capacity.....	n/a.....	4.4 qts.....	4.4 qts.....
Propeller Diameter.....	68 in.....	68 in.....	68 in to 72 in.....
Propeller Type.....	Wood.....	Wood.....	Wood.....
Gear Reduction.....	1:2.58.....	1:2.58.....	1:2.27.....
Fuel G.P.H.....	4.0 gal @ 85%.....	5.75 gal @ 85%.....	4.1 / 4.5 gal @ 80%.....

PERFORMANCE

Take Off Roll.....	285 ft.....	250 ft.....	285 ft/220 ft.....
Rate of Climb.....	500 fpm.....	900 fpm.....	900 fpm/1200 fpm.....
Service Ceiling.....	12,500 ft.....	14,000 ft.....	14,000 ft/14,500ft.....
Cruise.....	65 mph.....	75 mph.....	85 mph/90 mph.....
VNE.....	100 mph.....	100 mph.....	100 mph.....
Stall Clean.....	38 mph.....	40 mph.....	42 mph.....
Stall Flaps.....	32 mph.....	33 mph.....	35 mph.....
Roll Rate.....	70°/sec.....	70°/sec.....	70°/sec.....
Glide Ratio.....	7:1.....	7:1.....	7:1.....
Landing Roll.....	200 ft.....	200 ft.....	200 ft.....
Endurance.....	4.5 hrs.....	3.1 hrs.....	4.4 hrs/4 hrs.....
Range.....	292.5 miles.....	232.5 miles.....	374 miles/360 miles.....

WEIGHTS AND LOADINGS

Gross Weight.....	920 lbs.....	975 lbs.....	1100 lbs.....
Empty Weight.....	430 lbs.....	475 lbs.....	575 lbs.....
Useful Load.....	490 lbs.....	500 lbs.....	525 lbs.....
Wing Loading.....	6.0 lbs.....	6.4 lbs.....	7.2 lbs.....
Power Loading.....	17.7 lbs.....	15.0 lbs.....	13.75 lbs.....
Limit Load Factors.....	+4-2.....	+4-2.....	+4-2.....
*F/TR=Fixed Trike			
**50 lbs of baggage can be carried in the space available behind the seats.			
***Double the Range with a second optional wing tank.			
Performance at sea level and maximum gross weight.			

STANDARD EQUIPMENT

- ROTAX engine and engine install kits (see pricing info)
- 2-Blade wood prop
- Semi-focal 4-point rubber isolated engine mount
- Steerable nose gear, mini pod, dual rudder pedals, drum brakes
- 6" Nose and main gear aluminum wheels
- Spring steel main gear
- Individual seating adjusts fore and aft, 4 positions and tilt
- Upholstered seat with map pockets
- Dual control sticks
- Dual throttles
- Center brake handle
- Pre-cut and painted instrument panel
- Standard instruments include: ASI, Hourmeter, (engine instruments vary with engine package)
- Anodized aluminum airfoil struts
- 3" Main wing spar and root tube
- 2" Trailing wing spar
- 5" x .065 6061-T6 Tail boom
- Root rib tension system on wings, ailerons and flaps
- Wings fold or detach
- Folding jury struts
- Folding tail and wings (20 minutes)
- Welded 4130 cockpit cage comes powder coated
- Fuel sump drain
- 9 Gallon fuel wing tank (dual wing tank optional)
- Lap and shoulder belts
- Dual elevator horns operated by push-pull tube
- Ball bearing aircraft control pulleys
- Dual cable braced folding tail
- Cable and push-pull tube differential ailerons
- 4 ounce Pre-sewn Dacron skins in choice of colors

The S-12XL Airaile is an FAA Approved 51% Kit in Standard or Quick Build Form - No Painting*, fabric work or welding required. Clear coating of covering recommended. Order our video to learn the how-to's of clear coating.

*Enclosure pieces provided unpainted, in 6061-T6, can be polished or painted.

BUILD TIME STANDARD KIT:

Stock - 275 to 300 hours

Partial Enclosure - 350 to 400 hours

Full Enclosure - 450 to 500 hours

QUICK-BUILD KIT BUILD TIME: Reduce times by half.

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.

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