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## RANS S-16 SHEKARI SPECIFICATIONS AND PERFORMANCE

SPECIFICATIONS	125HP	160HP
Wing Span.....	24.0 ft .....	24.0 ft
Area.....	87 sq ft .....	87 sq ft
Mean Chord.....	3 ft 8 in .....	3 ft 8 in
Aspect .....	6.7:1 .....	6.7:1
Length .....	18 ft 8 in .....	18 ft 8 in
Height.....	5 ft 5 in .....	5 ft 5 in
Cockpit Width .....	40 in .....	40 in
Headroom.....	39.5 in .....	39.5 in
Legroom .....	43 in .....	43 in
Number of Seats .....	2 .....	2
Doors.....	1 .....	1
Landing Gear* .....	F/TR .....	F/TR
Baggage Volume.....	7 cubic ft .....	7 cubic ft
Baggage Capacity .....	50 lbs.....	50 lbs
Auxiliary Baggage Volume .....	n/a	n/a
.. n/a		
Auxiliary Baggage Capacity.....	n/a	n/a
.. n/a		
Fuel Capacity .....	32 gal US .....	32 gal US

### POWER PLANT

Engine .....	Continental IO-240B.Lycoming 0-320	
Output.....	125 hp .....	160 hp
Oil Capacity .....	5.0 qts .....	5.0 qts
Propeller Diameter .....	68 in .....	68 in
Propeller Type .....	Wood.....	Wood
Fuel G.P.H.....	6.0 gal @ 65%.....	7.7 gal @ 65%

### PERFORMANCE

Take Off Roll .....	600 ft .....	500 ft
Rate of Climb.....	1000 fpm .....	1300 fpm
Service Ceiling .....	14,500 ft .....	15,500 ft
Cruise.....	160 mph .....	173 mph
VNE.....	185 mph .....	185 mph
Stall Clean .....	62 mph .....	62 mph
Stall Flaps.....	58 mph .....	58 mph
Roll Rate.....	90° / sec.....	90° / sec
Glide Ratio.....	9:1 .....	9:1
Landing Roll .....	525 ft .....	525 ft
Endurance .....	5.3 hrs .....	4.1 hrs
Range.....	853 miles .....	720 miles

### WEIGHTS AND LOADINGS

Gross Weight.....	1450 lbs.....	1450 lbs
Empty Weight .....	930 lbs.....	1000 lbs
Useful Load Normal.....	520 lbs.....	450 lbs
Wing Loading .....	17.2 lbs.....	17.2 lbs
Power Loading .....	11.6 lbs.....	9 lbs
Limit Load Factors.....	+4-2 .....	+4-2

\*F/TR=Fixed /Trike

PERFORMANCE AT SEALEVEL AND MAXIMUM GROSS WEIGHT

### RANS S-16 SHEKARI “THE KIT WITH FAST BUILD BUILT IN” STANDARD EQUIPMENT AND FEATURES (LESS FIREWALL FORWARD)

- Powder Coated 4130 Welded Chromoly Steel Cockpit Cage
- Pre-Preg Composite Fuselage
- Aluminum Wings, Ailerons, Elevator, and Rudder
- Stamped Pre-Drilled Ribs, and Fuselage Bulkheads
- Pre-Built Tapered Box Beam Aluminum Main Wing Spar
- Aft “C” Spars—Extruded, Pre-Drilled and Anodized
- CNC Machined Parts for Accurate Fit and Fast Assembly
- Push-Pull Tube Actuated Differential Aileron
- Push-Pull Tube Actuated Elevator
- Dual Rudder Pedals – Cable Operated Rudder
- Dual Control Sticks
- Center Throttle / Mixture Controls
- Upholstered Seats
- Cleveland Wheels and Brakes
- Single Hydraulic Toe Brakes
- Aircraft Grade Tires
- Spring Steel Gear
- Ball Bearing Aircraft Control Pulleys
- ½ Span Flap, 5 positions
- Dual Wing Walks
- Composite Wing, Rudder, and Elevator Tips
- (2) 16 Gallon Fuselage Tanks with all Lines, Valves, Fittings, and Vents
- Profiled and Pre-Drilled Wing Skins
- Cabin Vents, NACA Style
- Forward Hinged Composite Framed Canopy with Gas Lift Struts
- In-flight Pitch Trim
- Profiled Instrument Panel
- Roll Over Protection
- Shoulder Harness and Lap Belts
- Steerable Tail Wheel or Nose Wheel
- Nose Gear Disconnect (Std. With Nose Wheel)
- Dual Rudder Pedals
- Stainless Steel Firewall with Sound Proofing
- Baggage Shelf
- Baggage Shelf Bulkhead Close Out

ALL PARTS, PRIMED, ANODIZED, OR POWDER COATED

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.

**AVERAGE BUILD TIME: 1000 -1500 HOURS**  
**No welding required**

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