

FESTIVAL R40S - Light Sport Aircraft

FESTIVAL R40S is a metal two-seats “ low-wing “ Light Sport Aircraft (LSA) , designed according to the ASTM American standards No. F 2339-04 , the aircraft fulfilling the requirements for the Light Sport Aircraft Category. *The aircraft is certified as Light Sport Aircraft in USA (2005) , in South Africa (2009) and Australia (2011)* .

FESTIVAL R40S is an aircraft perfect suitable for basic flight instruction, air clubs use , glider towing , individual & family leisure flying , aircraft rental , offering to its pilots an exceptional flight exposure and experience .

FESTIVAL R40S offers a large set of advantages :

- Full safety in flight
- Long life operation
- Robust metal construction
- Easy to fly
- Comfortable cockpit
- Panoramic canopy visibility
- Cockpit “ roll bar “ protection
- Spacious luggage compartment
- Safe & good gliding characteristics
- Safety flight for cross & front wind
- Take-off on paved & unpaved runways
- Short take off and landing distances
- Price affordability to buy
- Low operating cost
- Avgas & Mogas engine consumption
- Long life corrosion protection



And the list could goes on ...

FESTIVAL R40S is equipped with one ROTAX 912 ULS piston engine (100 HP) , the engine driving a three-blades ground – adjustable WOODCOMP propeller. All avionics, instruments and equipment are of USA origin.

FESTIVAL R40S is designed and manufactured by AEROSTAR – ROMANIA .

AEROSTAR - ROMANIA is one of the main aviation company in Eastern Europe , with over 55 years experience in aviation . The company produces parts & assemblies for EADS , PREMIUM AEROTEC , FOKKER , MESSIER DOWTY , maintains *Boeing 737(200 - 900 ; NG)* , converts *B Ae 146 aircraft (passanger to cargo)* , overhauls & upgrades *MIG 21 & L 39 aircraft* .

AEROSTAR - ROMANIA produces *Yak 52 , Yak 52W and Yak 52 TW aerobatics trainer (over 1900 aircraft)* .

AEROSTAR - ROMANIA is certified ISO 9001 , EASA , NADCAP , DQS , Romanian Civil Aviation Authority.

AEROSTAR - ROMANIA has obtained over 55 000 000 \$ bussines volume in 2010 .

Specifications

Length	22.1 ft	6.74 m
Wing span	30.1 ft	9.17 m
Height	8.1 ft	2.47 m
Wing area	150 sq.ft	13,97 mp
Empty weight (VFR day aircraft)	847 lbs.	385 kg
Max. Take Off Weight	1320 lbs.	600 kg
Useful load	473 lbs.	215 kg
Max. Take Off Weight (with floats)	1430 lbs.	650 kg
Fuel total capacity (two tanks)	21.2 gals.	80 l
Cabin width	47,25 inch	1,2 m

Performances

Max. horizontal speed (at MTOW)	121 mph	195 km/h
	• <i>With speedy prop</i>	<i>128 mph</i>
	205 km/h	
Cruising speed (80 % RPM ; at MTOW)	110 mph	175 km/h
	• <i>With speedy prop</i>	<i>116 mph</i>
	185 km/h	
Stall speed (with flaps)	41 mph	66 km/h
Stall speed (no flaps)	44 mph	70 km/h
VNE speed	150 mph	240 km/h
Front - wind speed	27 mph	12 m/s
Service ceiling (no oxygen)	12,120 ft	4,000 m
Climb rate	790 ft / min	4,35 m/s
Max. range (10 % fuel reserve)	470 miles	750 km
Max. range (no reserve)	520 miles	830 km
Max. endurance (10 % fuel reserve)	5.8 hours	5.8 hours
Cruising fuel consumption	3,4 gph	13 l/h
Take Off distance (on ground)	427 ft	128 m
Landing distance (on ground	525 ft	157 m
Take Off distance (50 ft obstacle)	1,246 ft	370 m
Landing distance (50 ft obstacle)	951 ft	285 m
Gliding / aspect ratio	12:1	12:1
G limits	+ 4 / - 2 g	+ 4 / - 2 g
G limits - ultimate	+ 6 / - 3 g	+ 6 / - 3 g

All performances are CAS obtained . All performances are valid at MTOW .

Standard Delivery :

Airframe :

- Full metal aircraft , aluminium alloy semi - monocoque construction (excepting cowling - composite ; aileron & flaps - covered by vinyl) ;
- Flush riveted wings ;
- Fixed “ all terrain “ heavy duty tri-gears landing gear ; 500 x 5 tires & wheels ;
- Steerable nose wheel with shock absorbers ;

Flight Controls :

- Dual flight controls ;
- Hydraulic brakes one the main gears ;
- Hydraulic cylinders brake on pedals , for both pilots ;
- Cockpit dual stick controls , with radio & electric trim buttons on each stick ;
- Elevator and rudder adjustable trim tabs ;
- Elevator electric trim (*actuated from stick*) ;
- Ailerons and flaps mechanically actuated by torque tubes , elevator and rudder actuated by cables ;
- Engine controls
 - *Throttle*
 - *Carburettor heat control*
 - *Choke*

Electrical System :

- 12 volts electrical system ;
- 12 volts cel - gell battery ;
- 12 volts / 250 W generator & regulator ;
- Master switch ;
- Ignition & starter switch ;
- Circuit breakers ;

- Nav / Pos / Strob wingtips lights (Aeroflash type) ;
- 12 V accessories plug (GPS / phone / MP3 / cigarette lighter)

Fuel System :

- Two “ wet “ fuel tanks into the wings (22 gallons in total)
- Engine electric driven fuel pumps
- Fuel gauges with senders
- Locking fuel caps ;
- Fuel quick drain valves ;
- Fuel control selector with ON/OFF

Cockpit & Interior :

- Pilot and Co-pilot seats
 - *configured “ side by side “*
 - *horizontal adjustable positions (fore / aft) & arm rest ;*
- Sliding & rotating back canopy with large 240 ° panoramic view in exterior ;
- Wide cabin - 47,25 inch on shoulders ;
- Roll-bar cockpit protection ;
- “ Wall to wall “ upholstered interior (fabric standard) . Upholstered seats ;
- Maps and storage pockets ;
- Dual adjustable “ Hooker & Harness “ safety belts ;
- Adjustable cockpit heating ;
- Stereo headset sockets ;
- 12 volts charger & cigarette lighter ;
- Fresh air ventilation (*both places*) ;
- Snap canopy vent (*both places*)
- Key - locking canopy ;
- Large volume luggage compartment behind seats ;
- Cabin entry from both sides ;
- Leg room for 6'6" tall pilot & co-pilot ;

Exterior :

- “ White colour “ standard polyurethane paint . FESTIVAL logo ;
- “ Long life “ anticorrosive metal protection (*full airframe alodine interior & exterior protection*) ;
- Parking brake ;
- Aircraft “ tie down “ points ;
- Metal wing walk protections (both wings) ;

Engine , Accessories & Instruments :

ROTAX 912 ULS piston engine (100 HP) , 4 cylinders , liquid & air cooled .

- Including - electric starter, generator, oil radiator, oil tank, oil filter, oil pump, fuel pump, carburettor, overflow bottle , air box, engine mount, exhaust system , tubular steel engine mount & shock absorbers , fire sleeve on fuel & oil tubes , composite cowling .
- Engine instruments – tachometer , oil pressure, oil temperature, cylinder head temperature, fuel gauges qty , fuel pressure .

Propeller :

WOODCOMP KLASSIC 170/3/R ground adjustable three-blades carbon fiber propeller . Spinner from composite .

Flight instruments & Avionics :

Base configuration FESTIVAL R40S (VFR day) : Altimeter . Airspeed , Magnetic Compass . Slip/skid indicator . Pitot System . Static System . Electric Trim Indicator . Left & right Fuel Indicators . ELT AK 450 . Radio ICOM IC A210 . Intercom ACS 400 .

Base configuration FESTIVAL R40S-GC (IFR " Glass Cockpit ") : Pitot System . Static System . Electric Trim Indicator . Landing Light . Lighted Panel . Magnetic Compass . ELT AK 450 . Radio ICOM IC A210 . Intercom ACS 400 . DYNON SKYVIEW Integrated System (D -1000 Primary Flight Display ; D -700 Engine Monitoring System Display ; Mode - S Transponder ; GPS ; Auto Pilot) .

Manuals and document :

“ Aircraft description , operation and maintenance manual “ . “ Pilot Operation Handbook “ (POH) . “ Engine operation manual “ ; Conformity statement

Delivery condition :

Standard delivery : “ Ready to fly “ aircraft . Delivery in China - at dealer's locations .

Delivery term :

Standard : Within five months after the contract is in force and deposit's payment .

Warranty :

100 flight hours or 12 months, whichever comes first. The warranty period begins at the delivery date .

Price List :

" FESTIVAL R40S " Base Price	\$ 99,900.00
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" FESTIVAL R40S - GC " Base Price	\$ 119,900.00
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- Price valid for the standard aircraft configurations & standard delivery.
- Including : Packing ; Shipment , Assembling & tests .
- Not including : Local taxes ; Registration fees ; Delivery to customer headquarters

Optional Equipment – Price list

- The prices are including the installation on the aircraft

Radio & Navigation Equipments :

Radio , Intercom

- KING CROWN KY 97 ; ACS 400; +\$ 4,390
- GARMIN SL40 NAV/COM ; ACS 400 +\$ 3,840

Transponder , Altitude Encoder

- GARMIN GTX 320 (mode C); AK 350 + \$3,250
- GARMIN GTX 327(mode C); AK 350 + \$3,550
- GARMIN GTX 330 (mode S); AK 350 + \$4,950

GPS / MAP (panel mount)

- BENDIX / KING KMD 150 Colour + \$ 5,990
- GARMIN GNS 430W COM/NAV/GPS + \$10,900
- GARMIN 696 + \$ 3 995
- GARMIN 496 + \$ 3,590
- GARMIN 196 + \$ 1,490
- GARMIN AERA 510 + \$ 2,490

Autopilot

- "S 30 " S-TEC two – axis + \$9,900
- TRUTRAK "DIGIFLIGHT II " (two servos) + \$5,900

EFIS & EMS

- EFIS D100 Dynon Avionics + \$4,500
- EMS D120 Dynon Avionics + \$3,900

Instruments :**Vertical Speed Indicator**

- VSI 0-2000 ft/min + \$ 550

Gyros (electrical)

- " RC Allen " Directional & Attitude Gyros
(TSO) + \$ 5,390
- " Sigma-Tek " Directional & Attitude Gyros
(TSO) + \$ 4,900

Turn Coordinator (electrical)

- " RC Alen " Turn Coordinator + \$ 890
- " Falcon " Turn & Bank Indicator + \$ 990

Hobbs Meter

+ \$ 120

Clock / Chronographer

- Astrotech LC-2 + \$ 490
- Falcon + \$ 450

Engine Scanner

- J.P. Instruments EDM-700 digital
(EGT/CHT scanners & fuel flow indicator) + \$ 3,900

Lights :**Landing Light**

+ \$ 890

Pos / Nav / Strob Wingtip Lights

- AVEO (LED technology) + \$ 995

Lighted Panel

+ \$ 350

Engine and Propeller Equipments :**" Speedy " propeller**

- ARPLAST ECOPROP DL170 +\$1.300

Aux. Engine Alternator

+\$1,700

Various :**" De Luxe " Leather Interiors**

+ \$950

Optional Custom Polyurethane Painting

+ \$1,500 -\$3,500

(per CUSTOMER scheme ; price depending on scheme;
usually \$ 1,500 / colour)

Optional Custom Aviation Vinyl Stripes (per CUSTOMER scheme ; price depending on scheme ; usually \$ 1,000 / colour)	+ \$1,000 -\$2,500
Composite Wheel Fairing (3 units / set)	+ \$990/set
Glider towing system	+ \$3,500
Supplementary Throttle Command - For Flight Instructor (Left / Right side)	+ \$1,750
External Power Supply Socket	+ \$450
Headset	
- David Clark H10-30	+ \$490
- David Clark H10-60	+ \$690
Canopy Cover	+ \$450
BRS Parachute	+ \$5,900
Floats	
- CZAW metal straight floats (" 1300 s " model)	+ \$ 13,900
- CZAW metal amphib floats (" 1300a " model)	+ \$ 18,900

- Payment: 35 % deposit with order; 55 % deposit paid when the factory ships the aircraft; Balance due after the aircraft acceptance .
- Prices not including any local sales taxes & fees.
- Prices are subject to change without prior notice.

Aircraft Producer

SC AEROSTAR SA
9 Condorilor St. , 600 302
Bacau
ROMANIA

Contact :
Cristian Dragoi – Marketing Programs Manager
www.aerostar.ro
aerostar@aerostar.ro
00 40 234 572 445 (fax)
00 40 234 575 070 – Ext. 1402 (tel)
00 40 729 582 065 (cell)

