

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 in USA by FAA , as LSA model .*

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

FESTIVAL R40S offers a large set of advantages :

- Full safety 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
- Paved & unpaved runways
- Short take off and landing distances
- Price affordability to buy
- Low operating cost
- Avgas & Mogas engine consumption
- Over 500 miles flight range
- 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 SA – ROMANIA , the worldwide producer of the famous YAK 52 , YAK 52 W and YAK 52 TW aerobatics trainer serial aircraft . The aircraft manufacturing is in accordance with ISO 9000 and JAR 21 production standards.

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>	<i>205 km/h</i>
Cruising speed (80 % RPM ; at MTOW)	110 mph	175 km/h
• <i>With speedy prop</i>	<i>116 mph</i>	<i>185 km/h</i>
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)	11,700 ft	3,500 m
Climb rate	770 ft / min	3,85 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

- *The performances are CAS obtained .*
- *All performances are valid at MTOW .*

Standard Delivery - **VFR Day Aircraft**

Airframe :

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

Flight Controls :

- Dual flight controls ;
- Doubled control sticks , with buttons for radio & electric trimmer on stick ;
- Hydraulic brakes on 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*
- Parking brake ;

Electrical System :

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

- Strobe & position wingtips lights ;
- 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 ;
- Pilot & co-pilot legs room for + 6 ½ feet tall ;

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 - heavy duty 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 fibber propeller . Spinner from composite .

Flight instruments & Avionics :

Full VFR Day flight configuration : Altimeter . Airspeed , Magnetic Compass . Slip/skid indicator . Pitot System . Static System . Electric Trim Indicator . Left & right fuel indicators . ELT AK 450 . Radio ICOM IC A200 . Intercom ACS 400 & Antenna .

Manuals and document :

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

Delivery condition :

Standard delivery : To AEROSTAR's local dealer location . “ Ready to fly “ aircraft configuration .

Delivery term :

Standard : Within four months after 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

- Price valid for the standard aircraft configuration (**VFR day aircraft**) & standard delivery.
- Including : Packing ; Shipment to cAerostar dealer's location ; 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 , during the production processes

Radio & Navigation Equipments :

Radio , Intercom and Antenna

-	ICOM IC A200 ; ACS 400; CI 121	+\$ 2,390
-	KING KY 97 ; ACS 400 ; CI 121	+\$ 2,990
-	GARMIN SL30 NAV/COM ; CI 121 ; ACS 400	+\$ 5,400

Transponder , Altitude Encoder and Antenna

-	GARMIN GTX 320 ; AK 350 ; KA60	+ \$2,650
-	GARMIN GTX 327 ; AK 350 ; KA60	+ \$3,250

GPS and Antenna (panel mount)

-	GARMIN GNC 150 XL	+ \$3,690
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GPS / MAP and Antenna (panel mount)

-	BENDIX KING Sky Map IIIC	+ \$ 3,990
-	BENDIX / KING KMD 150 Colour	+ \$ 5,550
-	GARMIN GNS 430 COM/NAV/GPS	+ \$10,900
-	GARMIN 496	+ \$ 3,590
-	GARMIN 396	+ \$ 2,490

Autopilot

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

EFIS & EMS display

-	EFIS D100 Dynon Avionics	+ \$4,500
-	EMS D120 Dynon Avionics	+ \$3,900
-	EFIS GRAND RAPIDS Series I	+ \$6,900

Instruments :

Vertical Speed Indicator

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

Gyros (electrical)

- " Falcon " Directional & Attitude Gyros
(non TSO) + \$ 3,500

Turn Coordinator (electrical)

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

Hobbs Meter

+ \$ 120

Clock / chronographer

- Astrotech LC-2 + \$ 390
- Falcon + \$ 350

Lights :

Landing Light

- " Nose gear " light + \$ 890

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

+ \$2,500 -\$4,500
(per CUSTOMER scheme ; price depending on scheme ;
usually \$ 1,500 / colour)

Optional Custom Aviation Vinyl Stripes

+ \$1,000 -\$2,500
(per CUSTOMER scheme ; price depending on scheme ;
usually \$ 1,000 / colour)

Composite Wheel Fairing (3 units / set)

+ \$890/set

Glider towing system

+\$3.500

Supplementary Throttle Command

- For Flight Instructor (Left / Right side) +\$1.750

External Power Supply Socket

+ \$450

Canopy Cover

+ \$450

BRS Parachute

+ \$5.500

System for agricultural works (crop spraying) + \$ 14.900

- "Micronair" system
- 100 – 120 liters tank for chemical substances
- Up to 400 – 500 hectares per day

FESTIVAL R40S "TRAINER" : VFR "day & night" trainer

- **Base configuration & Optional : \$ 104,900.00**
 - Transponder GTX 320 (mode C) & Encoder AK 350 & Antenna
 - Attitude Indicator Trutrak ADI
 - Hobs meter
 - Landing light
 - Lighted panel
 - Supplementary throttle command (left side wall)

FESTIVAL R40S "SPORTER" : IFR "day & night" trainer

- **Base configuration & Optional : \$ 109,900.00**
 - Radio – Garmin SL 30 COM / NAV (*replacing* ICOM IC-A200)
 - Transponder GTX 320 (mode C) & Encoder AK 350 & Antenna
 - Gyros – electrical (directional & artificial horizon)
 - Clock (electronic)
 - Hobs meter
 - Landing light
 - Lighted panel
 - Supplementary throttle command (left side wall)

- ® Payment: 50% deposit with order; 40% deposit paid when the factory ships the aircraft; Balance due after the aircraft acceptance .
- ® Prices are not including any local sales taxes & fees.
- ® Prices are subject to change without prior notice.

Aircraft Producer

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