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News & Video on Light-Sport Aircraft, light kit aircraft, and ultralight aircraft

Flight Design ga CTLSi in 2018
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Hottest Part 103 Ultralight Yet? Possibly, and Coming to America!

APRIL 30, 2018 BY DAN JOHNSON — 2 COMMENTS



mystery was solved. Anyone who has admired F4U Corsair's angular wings will be drawn to ultralight Corsair.

Even the engine mimics the original's Pratt & Whitney R-2800 Double Wasp, except at ultralight weights and power. Jörg chose a three-cylinder Verner radial to power his diminutive aircraft. The whole package was fascinating to those of us who enjoy single seat designs.

The truly good news for Yankees who might want to own such a creation is that Sportair USA boss Bill has placed an initial order. For a tiny company, such a launch customer greatly increases the likelihood that this unique entry will make it way into American skies. Of course, Europeans also recognize both the F4U resemblance and the coolness of this design effort.

While fabric covered (also for lightness), Jörg refers to his internal carbon fiber tube structure as "a unique carbon-spaceframe technology." He added, "This property right-protected technology combines high strength with an unequalled low weight."

Seeking a very low weight is partly a maneuver to steer clear of tough certification rules via the Part 103 / 120-Kilo Class / SSSR [unregulations](#).



In our [article from 2016](#) we unveiled Corsair in **bare carbon fiber bones**. That article also repeated Jörg's prediction that it would fly before Aero 2017. That didn't happen, however, Jörg said it is now ready for flight. "Corsair would have flown before Aero 2018 but a lack of ideal weather prevented that. We prefer calm winds and clear weather for a first flight in such a light aircraft," he explained. Because weather at Aero 2018 was warm and sunny, he hopes to get airborne in short order.

Not only can Corsair meet USA's Part 103, it also can qualify for Germany's 120-kilo class and Britain's Single Seat DeRegulated (SSDR) class ([article](#)). Jörg explained, "Corsair currently fulfills the British SSSR regulation. An adapted version will comply to FAR Part 103."

Two years ago at my favorite European airshow, [Aero Friedrichshafen](#), Bill Canino of [Sportair USA](#) urged me to go look at a cool Part 103 project. With a general appearance resembling a Chance-Vought F4U Corsair military fighter, designer [Jörg Hollmann's](#) ultralight Corsair is reasonably authentic including its highly distinctive inverted gull wing design.

Two years ago when I saw the bare bones example — exhibited for this small shop design and manufacturing organization in BP Oil's display stand — it was easy to get excited by the concept but less obvious to imagine how it might eventually look. At Aero 2018 the visual



A light design permits Jörg's design objectives. "Due to the light weight of the structure we were able to include all the ingredients for a high performance aircraft: outstanding aerodynamics, a strong engine with a big, efficient propeller, a short and aerodynamic landing gear, as well as effective flaperons."

The carbon-spaceframe is effective, resulting in a calculated +9 and -6g ultimate load strength. "Furthermore," Jörg said, "the complete cockpit area is constructed as a Kevlar-reinforced safety cell." A ballistic parachute will further enhance safety.



FEATURED AIRCRAFT & ENGINES



AeroJones Aviation
builds the very popular CT-series of Light-Sport Aircraft for Asia-Pacific markets. CTLSi is the latest version... a 98% carbon fiber design with superb performance, roomy cockpit, great useful load, and a parachute as standard equipment.



Just Aircraft has delivered more than 300 kit aircraft since 2002, but in 2012 they electrified pilots with the awesome performance of their all-new SuperSTOL. It may look extreme and performs extremely well, but it is truly docile and forgiving to fly.



Vickers Aircraft has created one of the most distinctive new LSA seaplanes yet to emerge. Powered by the 180-horsepower Titan IO-340CC by Continental Motors, their Wave model is like no other seaplane ever introduced with multiple features to set it apart from the crowd.



SportairUSA imports the dashing and superbly-equipped StingSport S4 that has won a loyal following from American pilots. More recently, they introduced their TL-3000 high-wing LSA. SportairUSA is a full-line operation with maintenance and training, too.

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Tecnam is the world's leading manufacturer of Light-Sport aircraft offering more models and variations than any other producer. Besides the world's fastest-selling light twin and their new P2010 four seater, Tecnam offers these LSA: P-92 Eaglet, Astore, and P2008.



Evolution Trikes developed and continues to refine their Revo, an absolutely magnificent weight shift control aircraft (or trike). Rev is their new very affordable single place machine.

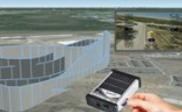




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SUN & FUN



Although Corsair has ultralight proportions, it is versatile about pilots it can contain. "The ergonomics have been optimized with the help of our local flying club," indicated Jörg. "It is suitable for pilots ranging from 5 feet 4 inches to 6 feet 8 inches (1.60-2 meters)." The inner cockpit is 23.6 inches wide (60 cm).

Corsair's seat is adjustable in four length/height positions. The seat back incline is independently adjustable in 11 positions. Rudder pedals are also adjustable and even the joystick offers two positions.

Corsair Specifications

Following are specifications of Corsair for both Part 103 and EU deliveries, as reported by JH Aircraft:

- Wing Span – 24.6 feet / 7.5 meters
- Wing Area – 108 square feet / 10 square meters
- Length – 20.7 feet / 6.3 meters
- Maximum Takeoff Weight (MTOW) – 551 pounds / 250 kg
- Empty Weight – 243 to 265 pounds / 110 to 120 kilograms (depending on national regulation)
- Useful Load – 287 pounds / 130 kilograms
- Powerplant – Verner Scarlett 3 VW radial engine
- Power Output – 42 brake horsepower at 2500 rpm
- Cockpit Width – 42 inches / 60 centimeters
- Stall Speed – 24 knots (U.S.) / 55 kilometers per hour (EU)
- Cruise Speed – 54 knots (U.S.) / 168 km/hr (about 104 mph)
- Max Cruise Speed: 104 mph / 168 km/hr
- Maximum Speed – more than 124 mph / 200 km/hr
- Rate of Climb – 1,000 feet per minute / 4 meters per second

For more information, contact [JH Aircraft](#) or in the USA, go to [Sportair USA](#).

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Comments



Don Catchpole says

APRIL 30, 2018 AT 5:41 PM

sweet bird, never heard of a vw radial.

[Reply](#)



David says

APRIL 30, 2018 AT 2:02 PM

Nice, we need more true ultralights. Bring It!

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US Sport Planes offers the all-composite, well-proven Jabiru line, one of the most popular Light-Sport Aircraft in America and the world. Under new leadership in Texas, the fast, handsome, and especially roomy Jabiru models are supported with exceptional service.



Hansen Air Group

represents recognized brands in the LSAspace: FK Lightplanes and their distinctive biplane Comet, FK9, and FK51 plus the great-flying Magnaghi Sky Arrow. Based in Atlanta, Georgia Hansen Air Group is an experienced player in the LSA space.



Flight Design USA

imports CT, one of the best selling Light-Sport Aircraft in American and the world. CT is 98% carbon fiber [with superb performance, roomy cockpit, great useful load, and a parachute as standard equipment ... a market leader for many years!



Lockwood Aircraft

is the builder of two of light aviation's best-recognized flying machines: AirCam and the Drifter line. Most

sport aviators already know the Lockwood brand, a leader in Rotax maintenance and aircraft services.



Evektor

is Number One and always will be. The Czech company's SportStar was the number one SLSA to win approval but

engineers have steadily improved the model far beyond that 2005 version that started the race.



AirMax

designed and manufactures a wonderful Light-Sport amphibious flying boat of the same name.

Created in Brazil SeaMax is a beautifully finished, high performing aircraft, the first to win FAA acceptance as a SLSA and it sets a high standard for light floatplanes.



Aeromarine-LSA

represents the Part 103 Zigolo, a dual-purpose ultralight and motorglider with prices starting at only

\$12,000, a genuine bargain among fixed wing, three axis ultralights. Powered by a gasoline engine now, the company is also developing electric propulsion. Click here to read more...



BRM Aero

manufactures the handsome Bristell all-metal SLSA. This highly evolved, next-

generation Light-Sport was carefully engineered for luxury, comfort, excellent stability, and safety while being fun, fast, and easy to fly.



The Airplane Factory (TAF)

produces the Sling series of world-circling aircraft (literally) and now this fine-flying, all-

metal beauty is available in the United States as a Special Light-Sport Aircraft. Here is an LSA to follow.



Aero Adventure

offers what is likely the lowest cost boat-hull seaplane in the light aircraft space with a kit

that, complete with engine, sells for less than \$50,000. Add a long history to its credit and Aventura is a seaplane worthy of a close look.



Aerotrek Aircraft

imports the A240 and A220 tricycle gear or taildragger Special Light-Sport Aircraft. A

finely finished aircraft at an excellent price, Aerotrek has wide, affordable appeal.



North Wing

is America's leading manufacturer of weight shift LSA and Part 103 ultralight trikes. The



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company's wing designs are so good that most other trike manufacturers use them. Aircraft prices are highly affordable by all.



Aeropilot USA ends your search for a Light-Sport Aircraft that is both familiar and new. Consider L600. This

80%-sized copy of Cessna's 182 is built with modern materials and well equipped but for tiny fraction of the cost of a new Skylane.



American Legend has been in the LSA space since the beginning, offering their iconic yellow

taildragger. The Texas company offers a full line of LSA and kit-built aircraft including the 180-horsepower Super Legend HP.



BushCat is the distinctive Light-Sport Aircraft within reach of almost any budget. With a solid heritage BushCat by SkyReach

is fun, capable, and available as a kit, fully-built SLSA or ELSA.



Sonex Aircraft is one of aviation's best-known brands offering exciting performance, easy building, prices to

match the budgets of most pilots, and you will do business with some fine people. Taking years of success to new heights, Sonex debuted the "B" models with numerous upgrades.



Bristell USA distributes the highly-refined Bristell aircraft in North America. The Czech-built aircraft is a

5th generation design with excellent performance, wonderful handling, and a most appealing shape. Other airplanes may look similar but Bristell has gone far beyond.



Aeromarine-LSA offers the remarkably well-priced **Merlin PSA**, a fully enclosed, all-metal single seater.

Quick build kits are only \$16,500, build time is a swift two weeks. A flying Merlin can be finished for under \$30,000. Merlin performs most enthusiastically on a two- or four-stroke engine. Click to read more...



Glasair Aviation became famous for their Glasair series. Today the Washington state company is focused on the newer

Sportsman in several varieties and on Merlin LSA. Later in 2017, buyers can buy a Merlin in fully-ready-to-fly form from this much-admired company renown for its top-tier customer service.



SilverLight Aviation created the first all-American gyroplane with modern sophistication and equipment, built by a

proven expert. Gyroplanes like ART fly much like fixed wings but with real advantages.



Aerolite 103 is a remarkably well priced (way below \$20,000), well-equipped, Part 103 ultralight that flies

beautifully. Several hundred are airborne and production has never been more solid. Here is an airplane every pilot can love and afford.



Progressive Aerodyne designed and supplies the SeaRey series, arguably the most celebrated of

all light seaplanes in America. A close community of hundreds of owners offers camaraderie few other brands can match.



Arion Aircraft has designed and built one of the most beautiful low wing entries in the Special LSA and kit-

built aircraft sector. The all-American designed and built aircraft is priced fairly and flies wonderfully ... need you search for more?

