Discover

BARRACUDA

Speed, Power and Control

Depend on Innovation

The latest innovation from Lancair is a new 2-seat "little brother" to the groundbreaking Mako — the Barracuda. Establishing a new standard for value, Barracuda offers high performance, operational economy and Lancair's trademark aerodynamic style in a cost-effective package for two.

LANCAIR®

Announced at *EAA AirVenture 2018*, Barracuda is the latest design from Lancair's legendary innovators. A beautiful 2-place composite single with exceptional performance and style at an affordable price point.

Speed, Power and Control
Start with Innovation.

Power to climb. Speed to take you to new places. Innovation that only Lancair can bring you. Three decades after revolutionizing the world of two-seat aircraft, a rich history of unparalleled innovation and record-setting performance continues with the Lancair Barracuda. Updated and optimized from tip to tail, Barracuda is faster, more agile and quicker to build than its predecessors.

It's All About The Options.

You'll enjoy a wealth of options to customize your Barracuda. Speed Brakes from Precise Flight, Wheel Brakes from Beringer and convenient access to the baggage area via an openable rear window are just a sample. Choose a Hartzell 3-blase 'Scimitar' propeller to boost performance. Plus, a wide variety of paint and interior options are available to boost appearance and enhance comfort.

When it comes to avionics and control systems, the choices expand even more. Offering Garmin G3X touch avionics, FADEC-lite electronic engine controls, an integrated iPad panel mount and more, your cockpit can be fully customized to fit you to a tee.

Choose Landing Gear that suits your mission needs.

Barracuda is available with several landing gear configurations — from fixed gear to fully retractable. Equipped with the innovative auto-retracting nose gear pioneered on the Lancair Mako, Barracuda will offer most of the speed and responsiveness of a full-retractable gear aircraft with the simplicity and cost savings of a fixed-gear model. In fact, Barracuda easily cruises at over 230 mph with its 310 hp IO-550-N 6-cylinder engine, offering comfort and range to spare —and all with the same great flight characteristics pilots have come to expect from Lancair.

Barracuda Specifications	
Base Engine	Continental IO-550-N
Horsepower	310
Hartzell Propeller	3-blade "Scimitar"
Landing Gear (Base Configuration)	Fixed Mains, Retractable Nose
Useable Fuel	65 gal
Gross Weight (lb)	2200
Empty Weight (lb)	1450
Useful Load (lb)	750
Full Fuel Payload (lb)	360
Glass Panel	G3X Touch
AmSafe Seat Belts	optional
Speed Brakes	optional
Built-in Oxygen	optional
Wingspan	25.5 ft
Length	22 ft
Baggage Capacity	90 lb
Cabin Width	43.5 in
Cabin Height	44.5 in
Seating Capacity	2
Performance (projected)	
Max Cruise KTAS	215
at Cruise Altitude	12,000 ft
fuel consumption	14 - 16 gph
Typ. Cruise KTAS	210
at Cruise Altitude	8,000 ft
fuel consumption	15 gph
Takeoff Ground Roll	800 ft
Rate of Climb (fpm)	2700 (solo)
Max Range (nm)	1300
Wing Loading	23 lb/sq ft (25.5')
Power Loading	7.0
G Loading	+4.4, -2.2 (utility)
Stall Speed - Vso	52 KTAS
Landing Roll	900 ft

One Very Comfortable Speedster.

Inside the Barracuda's cabin, creature comforts, ergonomics and luxury are foremost customer considerations. A spacious cabin (43.5" wide, 44.5" tall) offers generous shoulder and headroom, providing valuable space for its occupants. Optional hi-volume electric air conditioning helps keep you cool, while the large one-piece canopy provides unobstructed visibility and outstanding views in all directions. The roomy baggage area comfortably stows everything for your cross-country trip—including luggage, golf bags and fishing rods. And the optional rear window baggage door makes loading and unloading it all a breeze.

A Perfect Shape from the Perfect Materials.

Like every Lancair, Barracuda's major airframe is constructed of advanced composite materials. Vacuum cured at 270 degrees F, these NASA-tested, epoxy-based composites are among the lightest, strongest and stiffest materials known.

The high-temperature, pre-impregnated e-glass and/or carbon fiber systems, combined with Nomex/honeycomb core materials, are considered the supreme composite airframe materials worldwide. This combination allows for sophisticated compound aerodynamic shapes, such as the Barracuda's sculptured fuselage and double-taper wing, leaving no drag-producing rivets or lap joints.

Corrosion resistant, with a nearly infinite fatigue life and virtually non-flammable, these composite materials also extend the life of your investment. Lancair airframes will easily outlive any aluminum airframe when properly maintained. And, as Lancair builders will tell you, composites are easier to work with and far easier to repair.

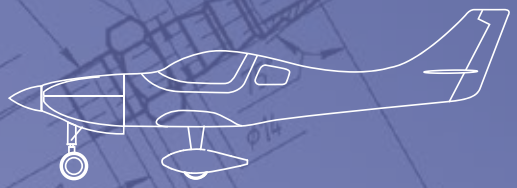
An Unequalled Airplane for Pilots Capability and Confidence.

We are constantly exploring new ways to improve our aircraft. Lancair's forward-thinking, aerodynamic designs meet the highest expectations and in many ways surpass traditional aircraft quality.

Wing design is of paramount importance to any aircraft and Lancair's design team has painstakingly fine-tuned Barracuda's wing design to optimize performance. The wing offers efficient performance at high speeds, without compromizing low speed handling and stability.

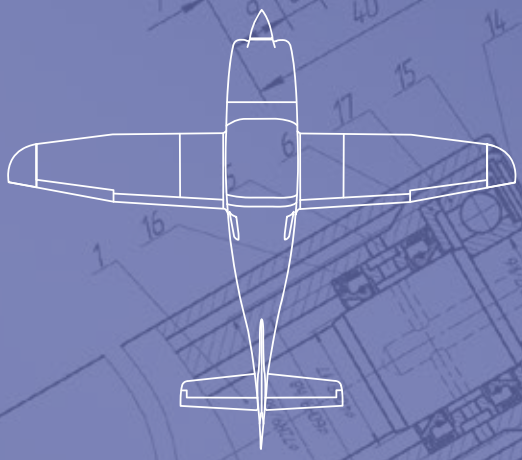
Barracuda's high-performance 25.5' wing has a unique double taper to maximize lift distribution from root to tip. This also allowed us to eliminate all "washout" which can compromise efficiency. The airfoil design creates extensive laminar flow across more than 50% of the surface resulting in a very carefully "tuned" wing design, enhancing overall aircraft performance. Roll control is light, snappy and balanced—a trademark of Lancair designs since the beginning. Plus, a relatively thick chord aids strength while providing ample room for fuel (up to 65 gallons). With a nimble roll rate of 150 degrees per second and solid control stick forces, flying the plane is a true joy!

At the other end of the performance spectrum, Barracuda's low-speed roll control is remarkable, with stall behavior that is "straight ahead." Simplified fowler-action flaps further increase the wing's maximum lift coefficient to enhance low-speed handling, allowing slower approaches and shorter landing distances and providing a new level of safety.



22'

25' 6"



10'

8'

10'

About Lancair

After 34 years in the Pacific Northwest, Lancair has relocated to the sunny climate of South Texas!

From their new Uvalde, Texas home, Lancair International offers full support for existing aircraft owners with parts, technical assistance and documentation as well as maintenance, repairs and inspections for Lancair and other experimental aircraft. On-site maintenance, avionics, paint and interior completion facilities ensure a convenient "one-stop" solution for owners and kit builders.

Lancair continues to play an important role in shaping the future of modern general aviation through innovation, technical advancements, design purpose, aesthetics and **performance**.

Visit **www.lancair.com** today to discover more.

Performance
from the Ground Up

In our absolute passion to produce the world's most perfect aircraft, Lancair engineers are committed to the idea that perfection of the whole can be accomplished only through perfection of the smallest details. For one example, builder instructions are clearly illustrated on oversize paper for easy, trouble-free construction.

Another is that the most difficult and tedious assemblies are performed in our well-equipped facilities by expert Lancair technicians, while still adhering to the 51% rule.

When you build your Barracuda, you'll receive unlimited, free technical assistance, five days a week, eight hours a day—for life. In conjunction with a very comprehensive, graphically detailed builders instruction manual, Lancair staff is available to advise our builders on all aspects of your assembly, from spinner to tail. This assistance also includes advice on powerplant, propeller selection, avionics and panel layout, final system installations, and placement options.

Throughout this assistance, our customers enjoy the opportunity for interaction with fellow Lancair owners and builders, sharing best practices, informational tips and time-saving activities, building on the already high level of pride and passion for this wonderful aircraft.

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