



"The Mako flies beautifully, with characteristics that offer a good balance of maneuverability and stability."

- FLYING magazine, July 2018

4 Seats. 2 Doors. Zero Compromises.

## PERFORMANCE perfected





### Outperforms the competition at every turn

ntroduced at EAA AirVenture 2017, the MAKO is the sleek new 4-place design from legendary composite aircraft pioneer Lancair.

With Mako, the emphasis is on *usable* performance — not just 'bragging rights' but real world responsiveness you can count on every day. Starting with a sturdy composite airframe that's built to stringent utility class standards, the Mako is designed for the long haul.

Painstaking aerodynamic refinement helps you get the maximum out of every gallon of fuel without compromising the Mako's nimble, yet docile handling characteristics. Carefully shaped LED wingtips minimize roll coupling while providing as much illumination as a commercial airliner! Finally, the (optional) auto-retracting nose gear adds 10-12 knots of cruise speed by eliminating the high-drag nose gear from the turbulent prop wash — without the potential insurance penalty of a fully retractable gear aircraft.

Ultimate performance is, of course, dependent on the powerplant. And Mako's robust airframe is engineered to accommodate multiple engine options. Select from a variety of Continental or Lycoming motors — normal or turbocharged — that best match your 'sweet spot' for power, range, altitude and fuel consumption.

In short, the Mako offers an unequaled range of options to meet your mission requirements, providing a beautiful, capable and easy-to-fly alternative to Cirrus and Cessna TTx at a fraction of the cost.

Projected Performance	e Standard	Turbo
Max. Cruise Speed	.200 ktas @ 9K ft	240 ktas @ 25K ft
Typical Cruise I	90 ktas @ 12K ft	225 ktas @ 25K ft
Fuel Consumption (typ)	13.5-15 gph	17-19 gph
Range (w/res)*	1400 nm	1150 nm
Endurance (w/res)*	7 hrs	5 hrs
Rate of Climb @ sea level	2000 fpm	1800 fpm
Take Off Roll @ sea level	600 ft	600 ft
Landing Roll	800 ft	800 ft
Stall Speed (landing)	62 kts	62 kts
Wing Loading	22.9 lbs/sq ft	22.9 lbs/sq ft
G loading (utility)	+4.4, -2.2	+4.4, -2.2

**Standard engine:** Lycoming IO-540, 6-cylinder, fuel injected, 3-blade constant speed propeller. Turbocharged version optional. \*with optional 109 gallon fuel tank.

# INNOVATION implemented

### Exhilarating and Efficient

hen we looked at the design of other four-seat airplanes, we saw plenty of room for improvement. And more room is what you get. Mako's interior is a spacious 46 inches across and 48 inches in height. Along with the generous shoulder and headroom, passengers enjoy outstanding visibility through large windows and the one-piece windshield. Space is also maximized in the ample baggage area, where you can carry all the gear you need for a lengthy trip.

To keep your passengers seated in comfort, we've included inflatable door seals that keep the cabin shielded from whistling wind and engine noise. A custom sound-proofing package, developed exclusively for Lancair, is available to make the cabin even quieter.

But improving comfort and convenience doesn't mean sacrificing speed. With a standard Lycoming IO-540 engine, you can cruise smoothly at 220 mph. Climb rate, takeoff distance and range set new benchmarks for power, performance and efficiency. Plus, thanks to our precision tuned induction system, fuel consumption is 10-15% less than other similarly powered aircraft.

Innovation is key to Mako's performance. The auto-retractable nose gear streamlines Mako's aerodynamics while twin gullwing-style cabin doors make cabin access easy for passengers and pilot alike. New high-style wingtips improve handling by reducing roll coupling, while improving nighttime visibility with 450,000 candela of high-intensity LED light — brighter than some commercial jets!

The new Lancair Mako synthesizes 35 years of aviation experience into one unforgettable aircraft. An ideal balance of comfort and capability at a price no comparable plane can match.

"The Mako is sleek and appealing on the outside - and it's comfortable, roomy, with good visibility and terrific avionics on the inside." - AOPA Pilot June 2018

### COMFORT & CONVENIENCE



From the moment you settle into the seat and pull the gullwing door closed, you'll feel like the Mako was made for you. The sleek aesthetic of the aircraft's exterior is echoed in the purposeful interior design. Like a premium sports sedan, Mako's cabin provides an inviting environment with superb visibility and exceptional control.

Mako's cabin design is driven by ergonomics as much as by aerodynamics. Behind the raked panoramic windshield is a cozy, comfortable cockpit, optimized for piloting from either side. The center console stick and dual side-mounted throttles offer pilots an easy-to-fly aircraft that makes even long flights a relaxing experience.

Supple ergonomic seating keeps passengers comfy and secure, while careful attention to streamlining, form and fit ensures a quiet cabin with minimal noise and vibration. And interior customization is virtually unlimited. From the outside in, optional upgrades include everything from dual gullwing doors, articulating seats and electric freon air conditioning to inflatable shoulder harnesses and state of the art entertainment and lighting packages.



The real test is a long-range flight. After comparing to a 5 or 6 hour flight in competitive aircraft like Cirrus or TTx, the Mako's form-fitting seats and comfortable control layout will ensure you touch down feeling rested and ready for whatever's next.



44' 48'
Cabin Area Seats4

Seats	4
Width (interior front)	46 in
Width (interior rear)	
Height (interior)	

### AVIONICS

Just below Mako's panoramic windscreen lies a clean, uncluttered instrument panel, designed to embrace the pilot with essential information and superb visibility. The 'pistol-grip' style control stick emerges from a center console designed to easily accommodate a Garmin GTN-750 Com/Nav/GPS unit. Simple, intuitive controls for engine start, fuel and essentials are fingertip-accessible, while ample space for dual Garmin touchscreen PFD/MFD displays resides in direct view of both front seat occupants.

Dual side-mounted throttles make fine engine control a snap, while integral air conditioning vents and LED lighting keep the cockpit comfortable and well illuminated in any weather conditions.

The best attribute of Mako's avionics, however, is the opportunity to customize your panel to your specific desires and budget. Lancair's avionics design experts are ready to help you engineer a purpose-built cockpit that is perfectly suited to your preferences. With high-capacity electrical supply and ample space for expansion both on the panel and behind it, Mako is ready for whatever avionics you can imagine.

### **Selected Avionics Options**

- NIMBUS Premium Panel Package
- CUMULUS Deluxe Panel Package
- STRATUS Standard Panel Package
- Garmin G3X Touch 10.6" PFD/MFD
- Garmin GTN-750 Com/Nav/GPS
- Garmin GTN-650 Com/Nav/GPS
- Garmin GSU-25 ADAHSR
- GEA-24 Engine Indicators w/ sensors
- GTS-800 Active Traffic System
- G5 Standby EFIS w/ battery backup
- GTX-45 Transponder ADS-B In/Out
- FlightStream 210
- Angle of Attack System
- iPad w/ Mount + I yr FlightAware



## DIMENSIONS & DYNAMICS

"To maximize the speed to match its namesake (the Mako is the fastest shark in the world), the Mako's fuselage is very clean. Protrusions of any kind are minimized." - FLYING July 2018

Is there a 'perfect' size and shape for an airplane? If so, the Mako's sensuous body embodies the closest approach yet to the ideal 4-place aircraft. Achieving a blend of clean lines, fuel efficiency, passenger space and docile handling, the Mako sits squarely in the 'sweet spot' for a high-utility single engine plane.

Mako achieves exceptional efficiency through proven aerodynamics, a strong yet lightweight composite structure, auto-retracting nose gear and more. It's effectiveness is reflected in range (over 1500 miles), fuel consumption (under 15 gph, normally aspirated) and cruise speed (180 - 190 knots without turbocharging).

The high-strength, lightweight airframe provides superb runway performance (600 ft takeoff / 800 ft landing roll) from grass, gravel or paved airstrips, breathtaking 2,000 fpm climb rates and robust durability in the event of serious weather.

Moreover, the Mako excels at "active safety" - also known as excellent handling. The easy-to-fly aircraft offers a rare combination of responsive, nimble handling and excellent stability, rewarding pilots with tactile feedback and exceptional ergonomics.

N580L



Specifications	Standard	Turbo
Length	25 ft	25 ft
Wingspan	36.6 ft	36.6 ft
Height	7.66 ft	7.66 ft
Wing Area	140 ft <sup>2</sup>	140 ft <sup>2</sup>
Aspect Ratio	9 : 1	9: 1
Empty Weight	2200 lbs	2250 lbs
Gross Weight	3550 lbs	3550 lbs
Std. Fuel Capacity	75 gal	75 gal
Optional Fuel Capacity	109 gal	109 gal
Useful Load	1350 lbs	1300 lbs
Baggage Capacity	175 lbs	175 lbs

### BUILDING YOUR MAKO

Any GA pilots have discovered that there are significant advantages in Experimental-Amateur Built aircraft over traditional certified models. E-AB aircraft offer superior value and performance, increased flexibility, allowing you to utilize the best technology, and the opportunity to become intimately familiar with the aircraft in a way that non-builders will never be.

For newcomers to the E-AB world, though, the prospect of building their own plane introduces them to unfamiliar territory. Lancair's **Builder Assist Program** is here to answer your questions and guide you through the process of assembling and outfitting your Lancair. A Lancair aircraft build can range from 100% individually built in the owner's garage or hangar – a process sometimes measured in years – to a 'Fly-Away' build requiring only a few weeks of on-site effort on the part of the owner – and a completed aircraft in only a few months.

Note, too, that major portions of the aircraft are not covered by the 51% FAA requirement, such as avionics, interior, paint, and many other systems and options. Considerable time savings can be achieved by subcontracting some or all of these areas and, where possible, performing them concurrently with the airframe assembly.

There are several benefits to the Builder Assist Program. The first is knowledgeable assistance in building the critical parts of your aircraft. The second is the use of our alignment fixtures and tools, resulting in accurate fit and finish. The third and most important is the instruction and confidence you receive by learning the basics of composites. In short, the Lancair Build Center provides an efficient, purpose-built environment for the assembly process and, as the manufacturer, we have all parts and fixtures readily available during your build.

The Builder Assist Program is conducted at our climate-controlled Build Center in Uvalde, Texas. Every Mako kit purchase includes a 2-week Builder Assist Program. In two weeks, you'll be able to close out both wings, the horizontal stabilizer and elevators and install the door(s), windshield and windows. More extensive Builder Assistance programs are available ranging from a 4-week program up to a "Fly-Away" option. Even contracted 3rd party builder assistance from a variety of experienced Lancair "Build Shops" is available.

Call 866-LANCAIR (866-526-2247) or 830-423-3005 today for more information on builder assistance and other service and support options.









## OPTIONS

#### **AIRFRAME**

- Right side gullwing cabin door
- Ballistic parachute recovery system
- Auto-retractable nose gear
- Electric Freon air conditioning
- Ice Protection System
- Beringer Main Wheel Brakes
- Electric Speed Brakes
- Long-Range Fuel Tanks (109 gallons)
- Tinted Windows

### **ENGINE & PROPELLER**

- Continental or Lycoming powerplants
- 4 or 6 cylinder
- Normally Aspirated / Intercooled Turbo
- FADEC-lite engine control
- Hartzell Scimitar or MT/Whirlwind prop

#### **ELECTRICAL**

- LED lighting package
- High-capacity Lithium battery upgrade
- VPX Electronic Circuit Breakers

#### **AVIONICS**

- 3 Panel packages with Garmin G3X Touch
- Or customize with your own preferences
- See Page 5 for additional options

#### CABIN

- Generation II articulating seats
- Inflatable shoulder harness
- Entertainment package
- Insulation package
- Heated Seats

### **BUILDER ASSIST**

- 2-week starter assistance included
- 4-week major airframe completion
- "Fly-Away" program available



### Experience Lancair Performance for Yourself.

Because seeing is believing, we invite you to visit our facilities and experience the Mako and our Builder Assist Program first-hand. More than just a simple factory tour, we'll illustrate to you the insight, the process and the attention to detail that make Lancair aircraft the finest in the sky, and among the easiest to construct in the kit aircraft industry. Then, after a demo ride in the Mako, you'll be convinced. Mako combines speed, utility and incredible ramp appeal—all in one elegant, cost-effective package.

That's the Lancair difference.

That's Lancair performance.



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