

LATEST from FAA! - What We Know at this Time



Them You Can Build

types. Motorgliders can soar reasonably well for those interested in working thermals or ridge lift to ascend without

Affordable Motorgliders? Yes, a Whole Family of





Many others might never shut down the engine and soar but are intrigued with efficient cross country flying. In a motorglider, a pilot can be more confident as the aircraft can glide far further than other types, providing a broader safety margin.

signer and builder **Tiziano Danieli** describes his creations as "a friendly family of ultralight* motor gliders

Trouble Is... Motorgliders Are Expensive ...Or, Are They?



If you'd like a motorglider without the big bill, Tiziano's Piuma series might be just what you are seeking.



"As readers will see on the website I am not a company, but only a passionate pilot / designer / builde of ultralight motor gliders in wood and fabric for personal use who has decided to sell the construction plans to finance his passion," related Tiziano.

The first flights of the Piuma Original date back to 1990. This was followed with the Tourer.

history, yet Tiziano saw value in

single place model



and to fly a little one seat ultralight motorglider, for personal use, very introductions, for pleasing due, recy safe in flight, simple in the construction, and easy to pilot," said Tizlano. "I wanted it to have flight characteri various tube-and-fabric uitralights of that time," (This was at the end of the '80s.)

history, yet Tiziano saw value in upgrading his plans and info package. "Given growing interest in minimal ultralights," Tiziano reported, "in 2021, the drawings of the Original Piums, the Construction Manual, and also the Project Book were improved with new photos, all now available also in English language." Based on my scouring every page of his website, I can attest his command of English is uurements, unusual for a European

wings, gliders and motorgliders have an elegant, graceful look and are efficient aircraft with low fuel usage per mile



Neutral pH



GENERAL AVIATION NEWS



sportflying

ALRSTATE ALL



AERO THE GLOBAL SHOW OR GENERAL AVIATION



Vext Sun 'n Fun



PAUL HAMILTON'S
SPORT AVIATION CENTER







materials needed. Readers who want to save money acquiring a motorglider may finally have a good option: the Piuma Project – composed of five models, the Original, Evolution, Tourer, Twin Evolution, and Almerico. The latter two are two seaters, though Tizlano admits his primary interest is the single place model.

A Piuma Tourer confirmed the suitability of the name by flying from Venice to Sicily one year (1,250 kilometers or 776 miles) and from Venice to Pais another year (900 kilometers or 560 miles). These flights confirm, Tizlano said, "that even with a small motorglider, I can do great trips,"

two-seater versions: the Piuma Twin later replaced with the Piuma Twin

Evolution, that incorporates all the ents suadested during ni



Touring Piuma Motorglider

Constructing Piuma e "scratch-built" airc

"Construction time depends on to builder's meticulousness," said Tiziano. "Normally, about 1,000 hours are sufficient for a person with limited woodworking A T



plywood to the aluminum alloy parts and including Dacron fabric, glues, and more. A "Project Book" is not necessary for the normal builder, but it is very important for those who want to know the project better. The Project Book contains design considerations; lots of drawings of the fuselage, wings, tall, and more; structural calculations; plus flying characteristics and speeds.

\$200-\$400 (each model is somewhat different in price) in early 2022. Tiziano reported, "The cost of



who know the aircraft and the process of construction makes for better, safer airplanes. Because safety is FAA's main consideration, professional builder-assist centers are expected to part of the new PRM by Oshkosh 2022 (mere months away now).



been highlighted as one of Mosaic's many aspects. Everyone including FAA recognizes that kits

built with oversight from people

Empty www.

Max take-off weight — 514 ,
Useful load — 198 pounds

Max wing loading — 4.14 pounds per squa

Recommended load factors — 43.4 / –1.2

***Afactors — 46.8 / 2.5

**** /81 knots) Max take-off weight - 518 pounds (550 pounds)

To help you find lots more information and details plus more photos for each model click or tap any of the several links below. (Note: English is used and is very good.)



Recommended load factors — 43.4 / –1.2
Ultimate load factors — 46.8 / 2.5
Max level speed — 51 knots (81 knots)
Normal cruising speed — 43 to 48 knots (73 knots)
Stalling speed — 26 knots (24 knots)
Never exceed speed — 65 knots
Best glide ratio with power off — 17.1
Take-off — 30 feet
Landing — 330 feet
Max climh rate a tea level — 390 feet per minute (14 knots)

Max climb rate at sea level — 390 feet per minute (1,000 fpm)
Min sink rate (at 31 knots) — 200 feet per minute (235 fpm)
Engine — 25 horsepower (40 horsepower; Rotax 447)

Empty weight - 320 pounds

- * European use of "ultralight" does not mean FAR Part 103 parameters. While light, these are not Part 103 ultralight
 - nerico single-seater that I used for my personal use are not yet completed ne builders, together with hundreds of photos of the details under

This March 2, 2022 update provides photos of designer / builder Tiziano Danieli's own project. Here's a few words from him about it.















































































ROTAX.



