ALPHA Electro
10.5 m (35 ft) wingspan

ALPHA Electro
10.5 m (35 ft) wingspan

ALPHA Trainer
10.5 m (35 ft) wingspan

Taurus Electro
15 m (50 ft) wingspan

Taurus M
15 m (50 ft) wingspan

Sinus
15 m (50 ft) wingspan

Virus
12.5 m (42 ft) wingspan

Virus SW 80/100/iS
10.7 m (35 ft) wingspan

Virus SW 121 EASA TC
10.7 m (35 ft) wingspan

Panthera
Four seat fast cruiser

All Pipistrel products are designed and manufactured in our **100% eco-friendly** facility and follow our **ECOLUTION** concept.

Technical data

ENGINE	Pipistrel Type 811 268 MVLC
max power	60 kW 1 min, Cruise 50 kW @ 2100 - 2400 rpm

Propeller

ground adjustable three-blade 1.64 m diameter propeller

Dimensions

wing span	34' 6" (10.5 m)
length	21' 4" (6.5 m)
height	6' 9" (2.05 m)
wing area	102.4 sqft (9.51 m2)
rudder area	11.8 sqft (1.1 m2)
tail area	11.6 sqft (1.08 m2)
aspect ratio	1,8
positive flaps	0°, 15°, 25°
centre of gravity	20% - 38% MAC

Weights

basic empty weight - with batteries	368 kg
max take off weight (MTOW)	550 kg LSA
Payload	182 kg

Performance

Data published for MTOW 1,212 lbs (550 kg) All speeds in Knots

stall with flaps	38 KCAS
stall without flaps	45 KCAS
cruising speed (75% power)	85 KIAS
maximum horizontal speed at sea level	100 + -KIAS
VNE	135 KIAS
max speed with flaps down	70 KIAS
manoeuvring speed	86 KIAS
best climb speed	76 KIAS
max climb rate	1,220 fpm
best glide ratio speed	64 KIAS
best glide	15:1
take off run - grass	555 feet
take off over 50' obstacle - grass	870 feet
service ceiling	12,800 feet
45°-45° roll time	2.6 sec
endurance	up to 60 minutes (plus reserve)
cruise range distance	75 NM
max load factor permitted @ (1.875)	+4g -2g
design safety factors & tested	minimum 1.875

CONTACT YOUR LOCAL DEALER

PIPISTREL

With the ever growing cost of fuel it is time to rethink pilot training. Our solution is the first practical all-electric trainer!

Technologies developed specially for this aircraft cut the cost of ab-initio pilot training by as much as 70%, making flying more affordable than ever before.

Pipistrel is a world leading small aircraft designer and producer, specialized in **electric-powered aircraft**. With almost **30 years** of experience **Pipistrel** has gained significant international reputation with passionate customers on all continents. **First** to fly an **electric two-seater** in 2007 winning the **NASA Green Flight Challenge** in 2011, Pipistrel has produced more than **1,500 aircraft** to-date. Pipistrel operates as a corporation in Slovenia, Italy and China, with capability of bringing a new aircraft design concept from a basic idea into a certified design ready for production.

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ALPHA Electro

ALPHA ELECTRO

THE NEXT CHAPTER IN TRAINING

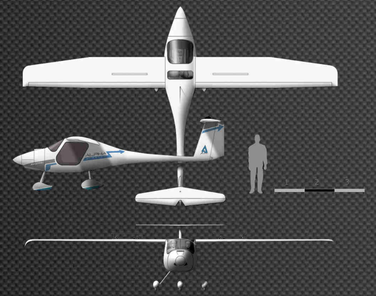
WWW.PIPISTREL.SI

Alpha Electro

The serially produced **ALPHA Electro** shares an airframe which has been proven as **excellent** by hundreds of Pipistrel's aircraft flying worldwide. The electric powertrain is operated with one simple lever, enabling the crew to focus on **learning piloting skills**! With the **smart charger**, using the **ALPHA Electro** is as simple as charging a mobile phone.

> Even if you do not train the future generation of pilots and fly only for fun, the almost **silent cockpit**, the **immediate response** of the powertrain and the lack of exhaust emissions will make you **feel the pioneering spirit of electric flight**.

Performance of the Alpha Electro 2-seat electric trainer is tailored to the needs of **flight schools**. **Short take-off distance**, **powerful 1000+ fpm climb**, and an **endurance** up to one hour plus reserve. The Alpha Electro is optimized for traffic-pattern operations, where up to 10% of energy is recuperated on every approach, increasing time of flight and at the same time enabling short-field landings.



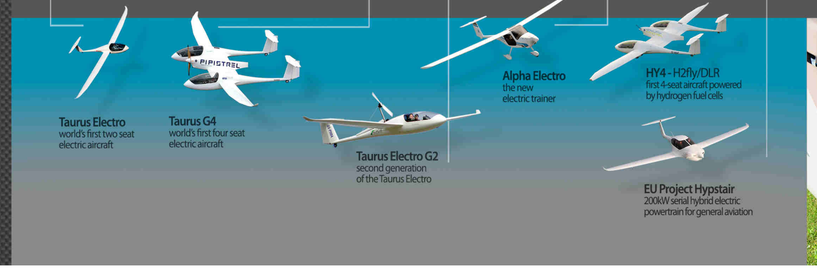
Optimized for durability and SAFETY

The **Pipistrel ALPHA ELECTRO** aircraft uses **reinforced undercarriage** and **composite structure** to cope with student pilots' mistakes and **flight school operations**.

The **directly steerable nose wheel** provides perfect ground handling and taxiing. Each Pipistrel ALPHA ELECTRO is equipped with a **ballistic parachute** as an additional safety measure; this rescue system can be deployed at maximum speeds and very close to the terrain.

The feel of all control surfaces is completely **balanced** and **harmonized**, making this aircraft ideal for new students. The aircraft is **stable** in all flight regimes and **handles turbulence** very well.

2007 2009 2008 2010 2011 2012 2013 2014 2015 2016



the greenest way of learning to fly!

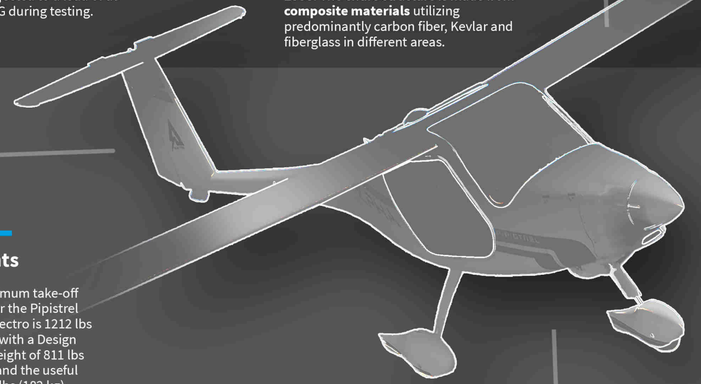
Design loads

+4 G, -2 G. All parts have been tested to a minimum safety factor of 1.875, meaning they were subjected to a load of at least 7.5 G during testing.

Structure

The structure on the **Pipistrel ALPHA ELECTRO** aircraft utilizes composite technologies introduced by Pipistrel since **1995**. The entire structure is made from **composite materials** utilizing predominantly carbon fiber, Kevlar and fiberglass in different areas.

ALPHA ELECTRO



LEARN TO FLY ON THE
ALPHA Electro
AND EXPERIENCE THE FUTURE OF FLYING FIRST HAND NOW!

Weights

The maximum take-off weight for the Pipistrel ALPHA Electro is 1212 lbs (550 kg), with a Design empty weight of 811 lbs (368 kg) and the useful load 401 lbs (182 kg).

Battery status
Easy to check

Visibility

There is a new more **robust undercarriage** with **shorter nose leg** offering **improved visibility** from the **cockpit forwards**.

Pipistrel
have fun, fly electric