

PIPISTREL
ROMANIA



**Most Affordable
Champion**
Claimed 10 Official
FAI World Record

APIS/BEE
self-launching
UL/LSA
single seat
glider

Optional total rescue-system
adjustable cockpit ergonomics

Spacious instrument panel
retractable landing gear

Apis/Bee is a single-seat
middle wing ultralight self
launching glider with T
shaped tail. All plastic parts
are made in AFK, GFK and
CFK technology while all
main parts are LN certified.

The plane itself is made
of armored plastic in
combination of epoxy rosin
enforced with honeycomb,
glass, carbon and kevlar
fibers.



APIS/BEE

Featuring the same
wing- and tail section
aerodynamics as the Sinus
and Taurus, you can be
positive in Apis/Bee stellar
gliding performance.



Taurus M
15-meter wingspan
Taurus Electro
15-meter wingspan



Apis/Bee
15-meter wingspan
13.5-meter
New FAI class ready



Sinus 912
15-meter wingspan



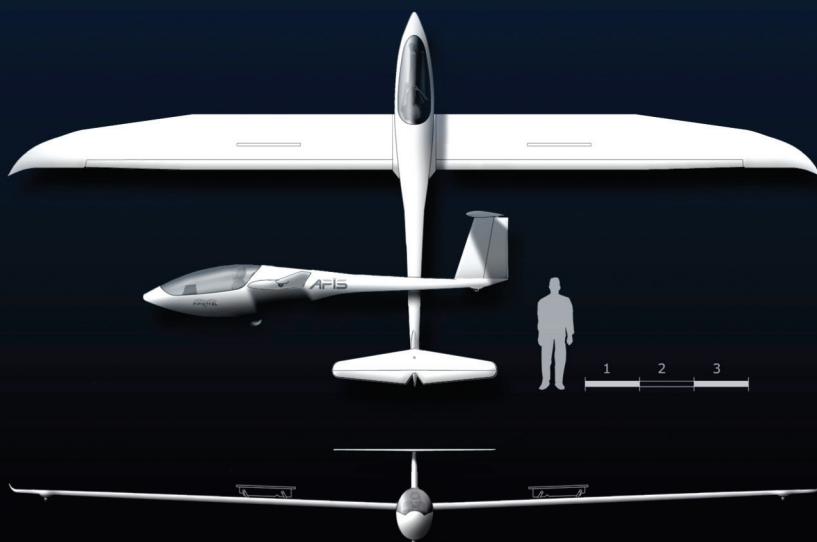
Virus 912
12.5-meter wingspan



Virus SW 80/100
10.7-meter wingspan



Panthera
Four seat fast cruiser





Apis/Bee UL Self-launching 1 seat-glider

Wings are made in sandwich construction. Top and lower surfaces are made first then all additional elements (main spar, basic ribs, air-brake enclosure, ...) are glued into top half. Air-brakes expand from top half of the wing only. Rudder is built the same way from two halves with built-in control connections and hinges. Fuselage is built in combined AFK and CFK manner as a combination of shell and sandwich construction. Two halves are built so that most of the elements are glued into one of them and then both are put together. Carbon and kevlar are used from nose to wing section, while the rest is made in sandwich construction. Cockpit is covered with single piece Plexiglass cover opening in forward direction.

Wing span	14,97 m
Wing area	12.24 m ²
Aspect ratio	18,3
Fuselage length	6.26 m
Empty weight	215 kg
Single wing weight	40 kg
Max. takeoff weight	322,5 kg
Min. takeoff weight	250 kg
VNE	220 km/h
Max. airspeed in rough air	144 km/h
Manoeuvring airspeed	1144 km/h
Max. speed with air-brakes	220 km/h
Min. speed MTOW	60 km/h
Best glide ratio @ 94 km/h	39
Min. sinking rate @ 84 km/h	0,59
Load factor permitted	+ 5.3 - 2.65



APIS/BEE



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Panthera
Four seat fast cruiser

Pitot tube and air vent (for airing cockpit) are built into nose.

Static pressure is measured on the side of the fuselage. Radio antenna is built in to aft vertical stabilizer.

Tow tie is mounted on the lower front part of the fuselage. Rudder pedals are adjustable. Tail section. Horizontal stabilizer and rudder is made the same way as wings: in sandwich construction. Controls. All controls hook up automatically. Vertical rudders, air-brakes and ailerons use rigid connections (tubes and bearings) while vertical rudder is connected with steel cable.

Landing gear is a non-retractable wheel with disk brake under the cockpit and a small one on the tail. The wheel brake is accessible by air-brake handle.

Apis/Bee is a top performer and holds several World Records in its class:

- > **Free out and return distance - 310km**, (Tanja Pristavec, DU feminine)
- > **Free distance using up to 3 turn points - 347.6km** (Tanja Pristavec, DU feminine)
- > **Free distance - 154km** (Tanja Pristavec, DU feminine)
- > **Free distance using up to 3 turn points - 808.9km** (Boštjan Pristavec)
- > **Speed over a triangular course of 100 km: 76.9km/h** - (Tanja Pristavec, DU feminine)
- > **Out-and-return distance: 501km** (Andrej Kolar, DU general)
- > **Speed over an out-and-return course of 500km: 82.1km/h** (Andrej Kolar, DU general)
- > **Free Three Turn Points Distance: 619.7km** (Andrej Kolar, DU general)
- > **Free out-and-return distance: 511.6km** (Andrej Kolar, DU general)
- > **Speed record over a triangular course: 118.2 km/h** (Boštjan Pristavec)



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