



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

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**  
 self-launching  
 UL/LSA  
 single seat  
 glider

Optional total rescue-system  
 adjustable cockpit ergonomics

Spacious instrument panel  
 retractable landing gear



# 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



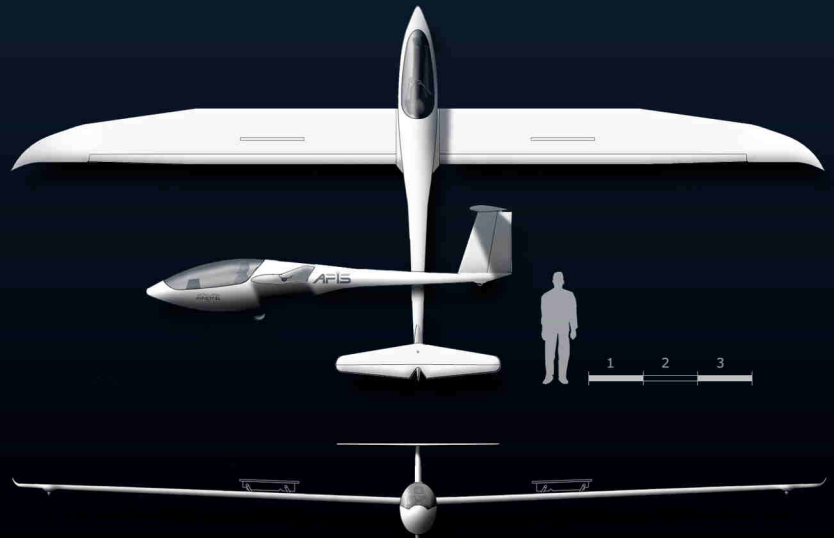
**Virus 912**  
 12.5-meter wingspan



**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 Plexyglass cover opening in forward direction.

Wing span	14,97 m
Wing area	12.24 m <sup>2</sup>
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
Maneuvering 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



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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: 511.6kmb (Andrej Kolar, DU general)
- > Speed record over a triangular course: 118.2 km/h (Boštjan Pristavec)



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