

HP-24

Make Soaring Happen!

A single-seat high-performance carbon fiber sailplane that you can build in your garage. The HP-24 is delivered as a quick-build kit that goes from crate to flight line in as little as 500 hours. The cockpit has been specifically sized to provide comfortable seating for a 6'2", 240 lb pilot, and to accommodate pilots up to 6'6" and 300 lbs. The HP-24 is also available with the LZ Design Front Electric Sustainer (FES) system.

You learn all of the composites techniques you need to build the HP-24 kit at regular Akaflieg sessions at our Arnold, CA facility.

HP-24 Specifications

Span	49.2ft/59ft	15.0 m/18.0 m
Length	22.9 ft	6.98 m
Height	52.1 in	1.22 m
Wing Area	108.0 sq ft	10.02 sq m
Aspect ratio	23.0	
Flaps	-5 to 15 degrees	
Empty weight	450 lbs	205 kg
(with FES)	550 lbs	250 kg
Max payload (15m)	375 lbs	170 kg
Water ballast	300 lbs	136 kg
Dry gross wt	825 lbs	375 kg
Ballasted gross wt	1125 lbs	466 kg
Max airspeed, rough air	120 mph	193 kph
smooth air	150 mph	241 kph
aerotow	120 mph	193 kph
winch or auto tow	90 mph	145 kph
FES Climb	5000 ft	1500m
Cruise	60 mi	96 km
L/D Max	42	
Minimum sink, 656 lbs, 46 mph	1.8 fps	.55 mps
Stall speed Flaps 0, 770 lbs	42 mph	67 kph



www.hpairspace.com

HP-24 Sailplane

The HP-24 kit lets you build your own modern, high-performance carbon fiber sailplane in your garage. The wing is configured for 15-meter span, with optional winglets and also 18-meter span extensions. Provisions are available for up to 400 lbs of water ballast.

The HP-24 is the logical extension of the HP/RS series sailplanes designed by Richard E. Schreder, and leverages on his philosophy of providing cutting-edge performance at an affordable price.

The cockpit of the HP-24 is specifically designed with a wide range of pilot sizes and shapes in mind. The cockpit is designed around an average pilot height of 6' 2", with accommodation for both larger and smaller pilots. We believe that better ergonomics and reduced fatigue results in a better soaring experience, and improved overall performance and satisfaction.

The HP-24's basic configuration has been specifically designed to provide outstanding handling and stability, and the HP-24 has shown itself to offer both high performance and docile handling.

The HP-24 kit comes with all critical alignment and closure tasks already done. The upper and lower wing skins are already bonded together, as are the right and left fuselage shells. The kit has been carefully designed so that builder-accomplished tasks are within the capacity of a homebuilder with average tools and skills.

The kit includes all of the parts and assemblies required to manufacture a flyable aircraft, with the exception of paint, instruments, and some hazmat-controlled resins.

You get hands-on experience and "51% rule" credit at our regular Akaflieg meetings where you participate in the manufacture and assembly of your kit components.

Standard features:

- * Pre-assembled wing panels and fuselage shells
- * 15-meter wing
- * Nose-pivot 1-piece canopy
- * Automatic control hookups

Typical Options:

- * Winglets
- * 18-meter span extensions
- * Front Electric Sustainer (FES) system
- * Water ballast bags and plumbing

The base sailplane kit starts at about \$36,000 excluding FES, instruments, 18-meter tips, and other options. For more information, and for the latest updates on the HP-24 project, see:

www.hpaircraft.com/hp-24

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