

**HP-10 HONEYCOMB WING**

**28' CHASSIS**

**HP-10**

**HELISOAR SCHREDER**      **SAILPLANE KITS**

Dick Schreder designed the HP-10 as a fast and able contest sailplane, to be supplied as a kit offering the economy and freedom to be customized that is provided through Amateur Experimental Certification. Safety is assured by metal construction and by very effective large span flaps. The substitution of flaps instead of spoilers provides a smooth unbroken upper surface for the laminar flow wing. Flaps also allow the pilot to vary the wing lift and drag characteristics. Raising the flaps above normal permits low drag for fast running, lowering them slightly improves the sinking speed for soaring, half flap permits slow landing speed, and full flap gives drag braking and steep approaches. The kit contains all the material for construction of the sailplane except instruments, cushions and paint. The material is cut out, formed, welded where required, for the amateur builder to finish to size, trim, fit, burr, drill, rivet and assemble. Shipping crates are marine plywood so they may be used as part of the enclosed trailer, for which plans are supplied. The kit was carefully developed to comply with the requirements of FAA Amateur Built Experimental certification under CAM-1. Complete instructions with drawings are included. Calculated performance indicates a glide of 37 to 1 and sinking speed of 2 ft. per sec. with flap. Design max. speed is 150 MPH. The non-tapered narrow laminar section wing incorporates honeycomb sandwich wing skins for aerodynamic smoothness and simple construction. Span is 48 ft., aspect ratio 20. The 15 sq. foot flaps have a span of 32 feet and deflect 75 degrees. HP-10 sailplanes have flown in U.S. National Soaring meets in 1961 and 1962.

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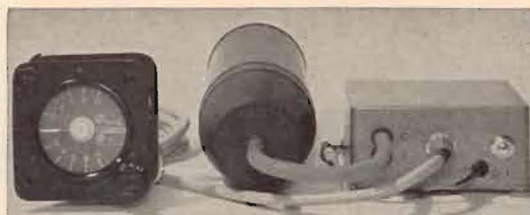
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**SSA's Item #37**

"List of Foreign Sailplanes Available as Plans, Kits, Partially Completed or Ready to Fly"—10c/copy from  
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## Wave Flights

Information received by SSA indicates that the following noteworthy wave soaring flights have been made in the recent past (altitudes asl):

March 26; David C. Johnson; Colorado Springs, Colo.; 1-26; Airport, 7100 ft.; low, 13,300 ft.; high, 30,000 ft.; gain 16,700 ft.; to earn Dia. alt.

March 27; Jack Arkovich; El Mirage Field, Calif.; BG-12C; airport, 2865 ft.; release, 9700 ft.; high, 30,000 ft.; gain, 20,300 ft.; 1:40 hr.; to earn Dia. alt. and set new state junior altitude records.

March 28; Wylie H. Mullen, Jr., M.D., Colorado Springs; 1-23H; low, 11,747 ft.; high, 30,121 ft.; gain, 18,374 ft.; 5:05 hr.; 237 mi.; to earn Dia. alt.

March 28; Neal Ridenour; Colorado Springs; 1-26; release 12,500 ft.; high, 30,600 ft. gain, 18,100 ft.; to claim Dia. alt.

March 28; Richard Sundquist; Colorado Springs; Skylark 3F; low, 9280 ft.; high, 30,430 ft.; gain, 21,150 ft.; 1:59 hr.; to claim Dia. alt. and Colo. state alt. gain record; left 350-fpm lift because of nightfall.

April 5; Bill Brinkmann; Tehachapi, Calif.; 1-23E; airport, 4000 ft.; low, 9686 ft.; high, 32,118 ft.; gain, 22,432 ft.; 3:15 hr.; consistent 300 fpm lift; to earn Dia. alt. and set new state junior records for altitude and altitude gained.

April 6; George Uveges; Tehachapi; 1-23E; low, 8400 ft.; high, 25,000 ft.; gain, 16,600 ft.; 3:00 hr.; to earn Dia. alt.

April 6; John R. Gravance; El Mirage Field; Prue Standard; low, 10,360 ft.; high, 28,235 ft.; gain, 17,875 ft.; to earn Dia. alt.

April 6; Alf Modahl; El Mirage Field, 1-26; low, 12,000; high, 24,200 ft.; gain, 12,200 ft.; left 200 fpm lift, ran out of oxygen.

April 6; Mrs. Evelyn Primm; Palm Springs, Calif.; 1-26; airport, 448 ft.; release, 7500 ft.; high, 22,000 ft.; gain, 14,500 ft.; 3:30 hr.; climb made in secondary wave, initial lift 800 fpm; to claim Gold alt.

April 6; Howard Burgess; Palm Springs; BG-12A; release, 6300 ft.; high, 17,000 ft.; gain, 10,700 ft.; straight glide to Brawley, 115 mi.; 2:30 hr.; barograph quit.

April 14; Siegfried Groh; Wurtsboro, N.Y.; Ka-8B; airport, 560 ft.; release, 1500 ft.; high, 11,500 ft.; gain, 10,000 ft.; to claim Gold alt.