

Larry and Gene Smith of Valley Engineering/ Culver Props pose with their neat little Part 103 legal Back Yard Flyer Swing-Wing ultralight.



The Back Yard Flyer...

...and the case of the TP vandals at Oshkosh. Revenge will be sweet.

BY DICK STARKS

“Hey!” Sharon cried. “Look over there at my plane! Someone’s TP’d it.” We were on the red tram to the north end of Wittman Field, heading toward the Replica Fighters Association (RFA) area where her Airdrome Aeroplanes Morane Saulnier “L” Parasol replica was on display. AirVenture 2008 was in full

cry, and we were part of it this time.

We had put in one full day at AirVenture, but the endless walking at the show had already caused the onset of the dreaded ailment called “Oshkosh knee.” We couldn’t walk any more without staggering. This caused oncoming traffic to move to the other side of the

street, because they thought two drunks were coming at them.

So Sweetie and I started using the trams on the second day as we traveled from the campground way down south by the ultralight/light plane area up to the north end of the grounds where her Morane was tied down.

Sharon’s Morane was getting a lot of attention, and as soon as she would go out to answer a question from one visitor, a crowd would gather to listen and ask their own questions. I guess there is something about a red-headed, freckle-faced cutie with her own WW-I warbird that lights a lot of men’s fuses. (It sure lights *my* personal fuse.) Whatever it was, she was always surrounded by guys wanting to talk to her about her plane.

What Is That?

This time, as the tram went by the RFA area on its way to the next tram stop,

Sharon stands with her vandalized Airdrome Aeroplanes Morane Saulnier “L” Parasol replica.





That freckle-faced redhead was always kept busy answering the many questions about the Morane and the Big Twin engine.

we noticed her plane was festooned with what looked like toilet paper. We couldn't believe it.

We got off the tram and thundered back to where the plane was tied down. Silently, we looked it over. Definitely toilet paper. Someone had gone to a lot of trouble to do this. The vandals had taken a considerable amount of pride in their work, too. Sweetie and I looked at each other and nodded our heads. We knew who had perpetrated this nefarious deed. At the same time we both said, "Butch and Rick."

Butch Witlock and Rick Bennett are two other members of The Dawn Patrol, who had both reported in the night before. They had said that they would go up to the RFA's display, and now we knew for sure they had made their arrival known.

Butch built and flew a Graham Lee Nieuport 12 for years. Then, out of the blue, he'd been bitten by the build-another-plane bug. He decided to go over to the dark side and build a German plane. Now he is building one of Robert Baslee's Airdrome Aeroplanes Fokker D-7 replicas. Butch did not like

Larry Smith (blue shirt) gets ready to rotate the wing on the Back Yard Flyer from its "stored" configuration to its ready-for-flight configuration.



Gene and Larry have just rolled the Back Yard Flyer out of its trailer/hangar.



The Back Yard Flyer *continued*

the idea of selling his 12 because of the liability issue, so he chose a much safer way of moving it on. The Nieuport 12 is now hanging proudly from the ceiling in the Illinois Aviation Museum in Bolingbrook.

That's half the team. The other half is Rick Bennett, the proud builder of one of the most beautiful Graham Lee Nieuport 23 replicas you'll ever see. He flies it all over the Midwest in airshows, too. Anyway, those two big knuckleheads are now on our we'll-get-even list.



The elevator/aileron/flap control mixing system developed by Gene and Larry is clever. As the stick is pulled back for a full-stall landing, the mixer adds about 15° of "flap" to each aileron. Full aileron control is still available when the flaps are actuated.



Gene taxis in after another impressive demonstration flight.

Low and Slow, and OK with It

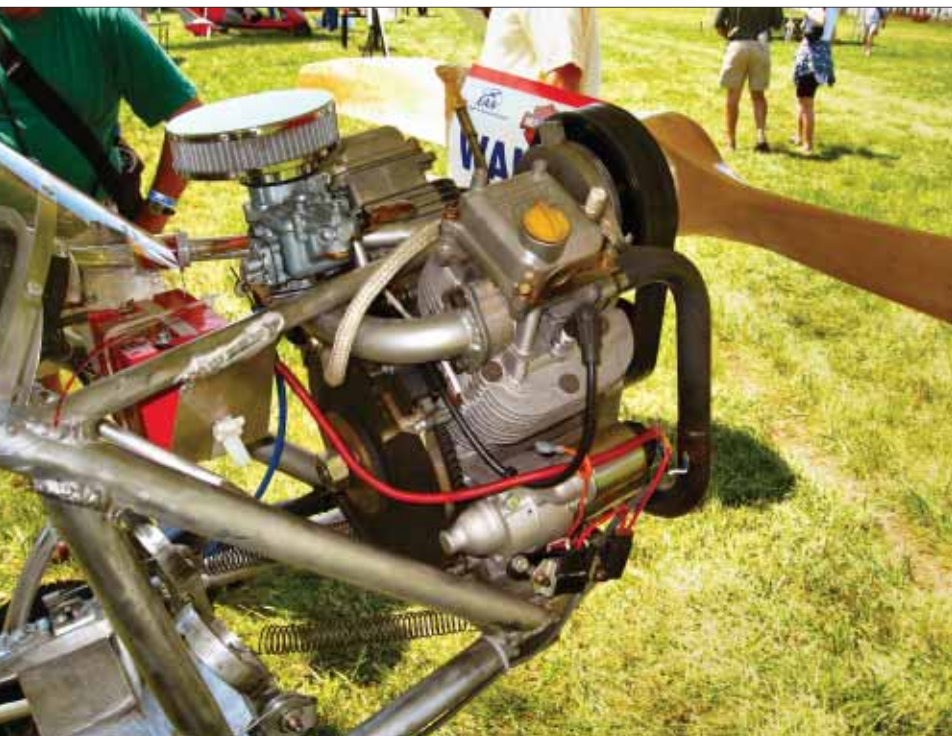
We put in a few hours of talking about the Morane at the RFA's area and then headed back to where we really belonged. As far as we're concerned, low, slow and inexpensive is now our aviation world. We both talked it over, and when our FAA medicals expired, we became Sport Pilot fliers. We knew that as we became more mature, there was a chance we'd blow a medical for a non-serious reason, and with the Catch 22 that exists with the FAA concerning the Sport Pilot medical, we would be through flying for good. As Sport Pilots, the low-and-

slow crowd was what we could afford anyway.

So it's not a big deal. We love low-and-slow flying, and it's inexpensive. As retired public school teachers we don't have the riches of Peru, and the cost of flying is a biggie!

Down to the light-plane area we went to see the design that really grabbed us by the nose: the Valley Engineering Back Yard Flyer Swing-Wing Ultralight. It's fully Part 103 legal.

When we first saw the plane, Gene and Larry Smith of Valley Engineering were pulling it out of a long trailer. We



6-foot-5 inch Scott Spangler tries out the fit of the Back Yard Flyer's cockpit. He admitted to being over Part 103 legal weight, but said it was one of the few planes he could be comfortable sitting in.

The Valley Engineering Big Twin 40-hp, four-stroke, two-cylinder engine. It comes fully equipped with starter, alternator, dual ignition systems, exclusive automatic carb heat, PSRU and Culver prop. The Big Twin was the winner of the Ultralight Innovation-Custom Powerplant award at AirVenture in 2006.



With a whole crowd of interested heads in the way, watching, the insertion and tightening of the four wing attach bolts took a little longer.

thought that they had just arrived at Oshkosh and were getting ready to set it up for flying. In a way, that is exactly what they were doing.

Three minutes later the plane was ready to go! Gene and Larry have developed a swing-wing concept that has to be seen to be believed. The wing rotates 90° on its vertical axis. After rotation, it takes about 2 minutes to attach the aileron linkage, bolt the wing in place with four wing attach bolts and you're ready to aviate. We were amazed.

It got to be almost comical seeing the expressions on people's faces as Gene and Larry would roll the plane up to the flight line in its "stored" configuration and then in the blink of an eye have it transformed into a plane ready to fly.

Potato, Potato

The Back Yard Flyer is pulled along by one of Valley Engineering's Harley-Davidson Big Twin, four-stroke, 40-horsepower engines. The engine comes with starter, alternator, automatic carb heat and a separate ignition system for each cylinder. Coupled with a Valley Engineering Series Three PSRU swinging a Culver Prop, you have an impressive combination of aircraft, engine, PSRU and prop. The Valley Engineering Big Twin firewall-forward package weighs 120 pounds complete and costs \$4995.

The Back Yard Flyer Swing-Wing comes complete, ready-to-fly with a ballistic 'chute for \$17,500. If you have trouble finding affordable hangar space, or any hangar space for that matter, you can get the plane with its own custom-

designed trailer/hangar for a package price of \$25,500.

There are Big Twin engines on Sweetie's Morane and her Kolb Twinstar MK II. Consequently, we have spent a lot of time with Gene and Larry at their plant in Rolla, Missouri. The Smiths, along with Robert Baslee's low-cost Airdrome Aeroplane replicas, are the main reasons we're still able to afford to fly.

The Big Twin comes at a reason-

able price compared to a lot of similar powerplants. And it sips only 5 quarts of gas an hour. Add the fact that it's a reliable, slow turning, four-stroke engine, and you have a lot of peace of mind while in the air.

By the way, Alaina Lewis, Larry Smith's daughter, was the one that gave Rick and Butch the toilet paper. She's now on our list, too. Even better, we know where she lives! ✈

Resources

Airdrome Aeroplanes
www.airdromeaeroplanes.com

The Kansas City Dawn Patrol
www.kcdawnpatrol.org

Culver Props
www.culverprops.com

Valley Engineering
www.valleyengineeringllc.com

VELOCITY INC.

THE VELOCITY TXL
253 KTAS CRUISE @ 65%
+ 1300 NM RANGE
1100lb. USEFUL LOAD

It's time to fly. Fast.

SEBASTIAN, FL 772.589.1860 WWW.VELOCITYAIRCRAFT.COM

2009

Rotorcraft Buyer's Guide

COMPILED BY JULIA DOWNIE

No doubt you've noticed that our annual Light Sport and Rotorcraft Buyer's Guide has gone on Weight Watchers and slimmed down for this year. Actually, it's more surgery than diet. Our readers have said with near unanimity that store-bought, ready-to-fly Special Light Sport Aircraft are not of interest—we're here to *build*, you say—so we have ceased publishing a print version of the SLSA guide as of this issue. That leaves our Rotorcraft Buyer's Guide to stand alone, which it is more than capable of doing.

This year, the changes: Another Butterfly model has escaped chrysalis as the Aurora Butterfly. Air Command has a new gyro in the Elite Tandem 912. Innovator Technologies gains two designs (now at five total) with the Mosquito XE3 and XET. Finally, the Sport Copter has been replaced by the Sport Copter II. Missing from the list: All three American Sportscopter designs, plus RotorWay International has pulled the plug on the Exec because of the success of the much improved A600 Talon. Gyros that meet LSA rules are so noted; as you know, pure helicopters do not fit into Light Sport rules. Please report errors and omissions to editorial@kitplanes.com.

Key to the Buyer's Guide Codes

Not applicable	n.a.
Information was not provided	n.p.
Retractable gear	R
Composite	C
Metal	M
Wood	W
Tubing	T
Fabric	F
Meets the parameters of the Light-Sport Aircraft rule	LSA LEGAL



Air Command International, Inc. Commander Elite 503	
Cruise, mph	55
Stall, mph	n.a.
Range, s.m.	150
Rate of Climb, fpm	900
Takeoff/Landing Distance, ft.	250/20
Engine Used	Rotax 503
HP/HP Range	50/40-72

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	278/590
Length, ft.	10.8
Disk Span, ft.	n.p.
Disk Area, sq. ft.	n.p.
No. of Seats	1
Cockpit Width, in.	19
Landing Gear	trigear
Bldg. Materials	C, T

Beginner Build Time, hrs.	50
No. Completed & Flown	4000
Kit Cost	\$18,000
Estimated Completed Cost	\$19K-\$21K
Quickbuild/Plans Available	N/N

www.aircommand.com
903/527-3335

LSA
LEGAL



Air Command International, Inc. Commander Elite 582	
Cruise, mph	65
Stall, mph	n.a.
Range, s.m.	140/280
Rate of Climb, fpm	900
Takeoff/Landing Distance, ft.	100/20
Engine Used	Rotax 582
HP/HP Range	65/40-72

Fuel Capacity, gal.	5/10
Empty/Gross Weight, lb.	275/750
Length, ft.	10.8
Disk Span, ft.	n.p.
Disk Area, sq. ft.	n.p.
No. of Seats	1
Cockpit Width, in.	19
Landing Gear	trigear
Bldg. Materials	C, T

Beginner Build Time, hrs.	50
No. Completed & Flown	4000
Kit Cost	\$20,280
Estimated Completed Cost	\$21K-\$23K
Quickbuild/Plans Available	N/N

www.aircommand.com
903/527-3335

LSA
LEGAL



Air Command International, Inc. Commander Elite EJ22 Single Place	
Cruise, mph	65
Stall, mph	n.a.
Range, s.m.	150/300
Rate of Climb, fpm	1200
Takeoff/Landing Distance, ft.	200/20
Engine Used	Subaru EJ22
HP/HP Range	130/100-135

Fuel Capacity, gal.	5/10
Empty/Gross Weight, lb.	275/750
Length, ft.	10.8
Disk Span, ft.	n.p.
Disk Area, sq. ft.	n.p.
No. of Seats	1
Cockpit Width, in.	19
Landing Gear	trigear
Bldg. Materials	C, T

Beginner Build Time, hrs.	40
No. Completed & Flown	101
Kit Cost	\$17,500
Estimated Completed Cost	\$15K-\$25K
Quickbuild/Plans Available	N/N

www.aircommand.com
903/527-3335

LSA
LEGAL



Air Command International, Inc. Commander Elite EJ22 Tandem	
Cruise, mph	75
Stall, mph	n.p.
Range, s.m.	400
Rate of Climb, fpm	1200
Takeoff/Landing Distance, ft.	100/20
Engine Used	Subaru EJ22
HP/HP Range	130/130-180

Fuel Capacity, gal.	15
Empty/Gross Weight, lb.	680/1155
Length, ft.	13.5
Disk Span, ft.	29
Disk Area, sq. ft.	n.a.
No. of Seats	2T
Cockpit Width, in.	19
Landing Gear	trigear
Bldg. Materials	C, T

Beginner Build Time, hrs.	100
No. Completed & Flown	101
Kit Cost	\$22,475
Estimated Completed Cost	\$30K-\$50K
Quickbuild/Plans Available	N/N

www.aircommand.com
903/527-3335

LSA
LEGAL

**Air Command International, Inc.
Commander Elite Tandem 912**

Cruise, mph	75
Stall, mph	n.a.
Range, s.m.	350
Rate of Climb, fpm	1200
Takeoff/Landing Distance, ft.	100/20
Engine Used	Rotax 912
HP/HP Range	100/100-120

Fuel Capacity, gal.	20
Empty/Gross Weight, lb.	500/1155
Length, ft.	13.5
Disk Span, ft.	29
Disk Area, sq. ft.	n.a.
No. of Seats	2T
Cockpit Width, in.	19
Landing Gear	trigear
Bldg. Materials	C, T

Beginner Build Time, hrs.	100
No. Completed & Flown	2
Kit Cost	\$60,000
Estimated Completed Cost	\$60K-\$70K
Quickbuild/Plans Available	N/N
www.aircommand.com	
903/527-3335	

LSA
LEGAL**Aircraft Designs, Inc.
Bumble Bee**

Cruise, mph	40
Stall, mph	n.a.
Range, s.m.	70
Rate of Climb, fpm	1500
Takeoff/Landing Distance, ft.	0/0
Engine Used	Rotax 447
HP/HP Range	42

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	213/500
Length, ft.	10
Disk Span, ft.	23
Disk Area, sq. ft.	415
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	trigear
Bldg. Materials	C, M, T

Beginner Build Time, hrs.	400
No. Completed & Flown	15
Kit Cost	n.p.
Estimated Completed Cost	\$3K-\$5K
Quickbuild/Plans Available	N/\$250
www.aircraftdesigns.com	
831/621-8760	

LSA
LEGAL**Aircraft Designs, Inc.
Sportster**

Cruise, mph	75
Stall, mph	n.a.
Range, s.m.	170
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	700/n.p.
Engine Used	Lycoming O-320
HP/HP Range	150/130-160

Fuel Capacity, gal.	17
Empty/Gross Weight, lb.	650/1100
Length, ft.	12
Disk Span, ft.	28
Disk Area, sq. ft.	616
No. of Seats	2
Cockpit Width, in.	n.p.
Landing Gear	trigear
Bldg. Materials	C, M, T

Beginner Build Time, hrs.	1500
No. Completed & Flown	67
Kit Cost	n.p.
Estimated Completed Cost	\$6K-\$20K
Quickbuild/Plans Available	N/\$535
www.aircraftdesigns.com	
831/621-8760	

LSA
LEGAL**Barnett Rotorcraft
Barnett J4B-2**

Cruise, mph	93
Stall, mph	n.a.
Range, s.m.	230
Rate of Climb, fpm	500
Takeoff/Landing Distance, ft.	300/0
Engine Used	Subaru EJ22
HP/HP Range	150/100-215

Fuel Capacity, gal.	17
Empty/Gross Weight, lb.	512/1085
Length, ft.	13.7
Disk Span, ft.	27.3
Disk Area, sq. ft.	586
No. of Seats	2
Cockpit Width, in.	24
Landing Gear	trigear
Bldg. Materials	F, T

Beginner Build Time, hrs.	500
No. Completed & Flown	187
Kit Cost	\$8850
Estimated Completed Cost	\$19K-\$39K
Quickbuild/Plans Available	Y/\$195
www.barnettrotorcraft.com	
530/742-7416	

LSA
LEGAL**Barnett Rotorcraft
BRC540 Coupe**

Cruise, mph	110
Stall, mph	n.a.
Range, s.m.	210
Rate of Climb, fpm	800
Takeoff/Landing Distance, ft.	300/0
Engine Used	Subaru EJ25
HP/HP Range	200/100-200

Fuel Capacity, gal.	17.5
Empty/Gross Weight, lb.	625/1248
Length, ft.	14.5
Disk Span, ft.	29
Disk Area, sq. ft.	679
No. of Seats	2
Cockpit Width, in.	44
Landing Gear	trigear
Bldg. Materials	C, F, T

Beginner Build Time, hrs.	400
No. Completed & Flown	8
Kit Cost (includes engine)	\$58,000
Estimated Completed Cost	\$30K-\$60K
Quickbuild/Plans Available	Y/\$210
www.barnettrotorcraft.com	
530/742-7416	

LSA
LEGAL**Butterfly, L.L.C. (The)
Aurora Butterfly**

Cruise, mph	70
Stall, mph	n.a.
Range, s.m.	75
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	150/0
Engine Used	Rotax 9125
HP/HP Range	100/100-115

Fuel Capacity, gal.	7.4
Empty/Gross Weight, lb.	485/900
Length, ft.	11.9
Disk Span, ft.	26
Disk Area, sq. ft.	530
No. of Seats	1
Cockpit Width, in.	n.a.
Landing Gear	trigear
Bldg. Materials	T

Beginner Build Time, hrs.	175
No. Completed & Flown	1
Kit Cost	\$37,995
Estimated Completed Cost	\$40K-\$45K
Quickbuild/Plans Available	N/N
www.thebutterflyllc.com	
940/433-2007	

LSA
LEGAL**Butterfly, L.L.C. (The)
Emperor Butterfly**

Cruise, mph	60
Stall, mph	n.a.
Range, s.m.	60
Rate of Climb, fpm	500
Takeoff/Landing Distance, ft.	500/10
Engine Used	Rotax 503
HP/HP Range	50

Fuel Capacity, gal.	7.4
Empty/Gross Weight, lb.	280/530
Length, ft.	11.1
Disk Span, ft.	23
Disk Area, sq. ft.	415
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	trigear
Bldg. Materials	T

Beginner Build Time, hrs.	100
No. Completed & Flown	4
Kit Cost	\$16,995
Estimated Completed Cost	\$18K-\$19K
Quickbuild/Plans Available	N/N
www.thebutterflyllc.com	
940/433-2007	

LSA
LEGAL**Butterfly, L.L.C. (The)
Golden Butterfly**

Cruise, mph	75
Stall, mph	n.a.
Range, s.m.	70
Rate of Climb, fpm	1500
Takeoff/Landing Distance, ft.	500/30
Engine Used	Subaru EJ25
HP/HP Range	190

Fuel Capacity, gal.	14.8
Empty/Gross Weight, lb.	895/1330
Length, ft.	17.3
Disk Span, ft.	31
Disk Area, sq. ft.	755
No. of Seats	2T
Cockpit Width, in.	n.p.
Landing Gear	trigear
Bldg. Materials	T

Beginner Build Time, hrs.	300
No. Completed & Flown	3
Kit Cost	\$39,995
Estimated Completed Cost	\$43K-\$49K
Quickbuild/Plans Available	N/N
www.thebutterflyllc.com	
940/433-2007	

LSA
LEGAL



**Butterfly, L.L.C. (The)
Monarch Butterfly**

Cruise, mph	60
Stall, mph	n.a.
Range, s.m.	75
Rate of Climb, fpm	850
Takeoff/Landing Distance, ft.	200/0
Engine Used	Rotax 582
HP/HP Range	65

Fuel Capacity, gal.	7.4
Empty/Gross Weight, lb.	350/630
Length, ft.	11.1
Disk Span, ft.	24
Disk Area, sq. ft.	452
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	trigear
Bldg. Materials	T

Beginner Build Time, hrs.	125
No. Completed & Flown	19
Kit Cost	\$17,495
Estimated Completed Cost	\$19K-\$25K
Quickbuild/Plans Available	N/N

www.thebutterflyllc.com
940/433-2007



**Butterfly, L.L.C. (The)
Super Sky Cycle**

Cruise, mph	70
Stall, mph	n.a.
Range, s.m.	150
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	200/0
Engine Used	Rotax 912
HP/HP Range	100/100-115

Fuel Capacity, gal.	17.4
Empty/Gross Weight, lb.	650/950
Length, ft.	14.6
Disk Span, ft.	27
Disk Area, sq. ft.	572
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	trigear
Bldg. Materials	T

Beginner Build Time, hrs.	200
No. Completed & Flown	1
Kit Cost	\$46,995
Estimated Completed Cost	\$50K-\$60K
Quickbuild/Plans Available	N/N

www.thebutterflyllc.com
940/433-2007



**Butterfly, L.L.C. (The)
Turbo Golden**

Cruise, mph	75
Stall, mph	n.a.
Range, s.m.	60
Rate of Climb, fpm	1500
Takeoff/Landing Distance, ft.	500/30
Engine Used	Subaru EJ25 Turbo
HP/HP Range	300

Fuel Capacity, gal.	14.8
Empty/Gross Weight, lb.	1050/1850
Length, ft.	17.3
Disk Span, ft.	31
Disk Area, sq. ft.	755
No. of Seats	2T
Cockpit Width, in.	n.a.
Landing Gear	trigear
Bldg. Materials	T

Beginner Build Time, hrs.	300
No. Completed & Flown	1
Kit Cost	\$49,995
Estimated Completed Cost	\$53K-\$55K
Quickbuild/Plans Available	N/N

www.thebutterflyllc.com
940/433-2007



**CHR
Safari**

Cruise, mph	85
Stall, mph	n.a.
Range, s.m.	290
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	0/0
Engine Used	Lycoming O-320
HP/HP Range	160/160-180

Fuel Capacity, gal.	28
Empty/Gross Weight, lb.	1000/1500
Length, ft.	30
Disk Span, ft.	26
Disk Area, sq. ft.	530
No. of Seats	2
Cockpit Width, in.	48
Landing Gear	skids
Bldg. Materials	M, T

Beginner Build Time, hrs.	700
No. Completed & Flown	130
Kit Cost	\$84,500
Estimated Completed Cost	\$90K-\$135K
Quickbuild/Plans Available	Y/\$150

www.acehelicopter.com
850/482-4141



**Eagle R&D, Ltd.
Helicycle**

Cruise, mph	95
Stall, mph	n.a.
Range, s.m.	180
Rate of Climb, fpm	900
Takeoff/Landing Distance, ft.	0/0
Engine Used	Solar Turbine
HP/HP Range	90 hp (de-rated)

Fuel Capacity, gal.	21
Empty/Gross Weight, lb.	500/850
Length, ft.	20.9
Disk Span, ft.	21
Disk Area, sq. ft.	340
No. of Seats	1
Cockpit Width, in.	28
Landing Gear	skids
Bldg. Materials	C

Beginner Build Time, hrs.	400
No. Completed & Flown	38
Kit Cost	\$36,500
Estimated Completed Cost	\$40K-\$45K
Quickbuild/Plans Available	N/N

www.helicycle.com
208/466-4120



**Groen Brothers Aviation's American Autogyro
Sparrowhawk III Gyroplane**

Cruise, mph	75
Stall, mph	n.a.
Range, s.m.	225
Rate of Climb, fpm	650
Takeoff/Landing Distance, ft.	500/30
Engine Used	Subaru EJ25
HP/HP Range	165

Fuel Capacity, gal.	23
Empty/Gross Weight, lb.	900/1500
Length, ft.	12.3
Disk Span, ft.	30.1
Disk Area, sq. ft.	707
No. of Seats	2
Cockpit Width, in.	44
Landing Gear	trigear
Bldg. Materials	C, T

Beginner Build Time, hrs.	300
No. Completed & Flown	44
Kit Cost	\$45,500
Estimated Completed Cost	\$46K-\$60K
Quickbuild/Plans Available	N/N

www.americanautogyro.com
801/973-0177



**Gyro-Kopp-Ters
Midnight Hawk**

Cruise, mph	60
Stall, mph	n.a.
Range, s.m.	170
Rate of Climb, fpm	600
Takeoff/Landing Distance, ft.	100/50
Engine Used	Subaru EA82 SPFI
HP/HP Range	90

Fuel Capacity, gal.	16
Empty/Gross Weight, lb.	510/810
Length, ft.	12.3
Disk Span, ft.	25
Disk Area, sq. ft.	n.p.
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	trigear
Bldg. Materials	M, T

Beginner Build Time, hrs.	60
No. Completed & Flown	12
Kit Cost	\$11,500
Estimated Completed Cost	\$12K-\$15K
Quickbuild/Plans Available	Y/N

www.gyro-kopp-ters.com
386/752-9116



**Gyro-Kopp-Ters
Twin Eagle**

Cruise, mph	55
Stall, mph	n.a.
Range, s.m.	170
Rate of Climb, fpm	800
Takeoff/Landing Distance, ft.	100/50
Engine Used	Subaru EJ22
HP/HP Range	130

Fuel Capacity, gal.	16
Empty/Gross Weight, lb.	750/1210
Length, ft.	14.8
Disk Span, ft.	28
Disk Area, sq. ft.	n.p.
No. of Seats	2T
Cockpit Width, in.	30
Landing Gear	trigear
Bldg. Materials	M, T

Beginner Build Time, hrs.	120
No. Completed & Flown	3
Kit Cost	\$16,500
Estimated Completed Cost	\$17K-\$21K
Quickbuild/Plans Available	N/N

www.gyro-kopp-ters.com
386/752-9116



Helo Werks, Inc.
HX-2 Wasp

Cruise, mph	81
Stall, mph	n.a.
Range, s.m.	123
Rate of Climb, fpm	1225
Takeoff/Landing Distance, ft.	0/0
Engine Used	AirResearch JFS-100
HP/HP Range	100/100-125

Fuel Capacity, gal.	20
Empty/Gross Weight, lb.	675/1250
Length, ft.	19
Disk Span, ft.	23
Disk Area, sq. ft.	415
No. of Seats	2
Cockpit Width, in.	49
Landing Gear	skid
Bldg. Materials	C,T

Beginner Build Time, hrs.	350
No. Completed & Flown	2
Kit Cost	\$90,000
Estimated Completed Cost	\$90K-\$100K
Quickbuild/Plans Available	N/N
www.helowerks.com	
757/342-6982	



Innovator Technologies
Mosquito Air

Cruise, mph	60
Stall, mph	n.a.
Range, s.m.	60
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	0/0
Engine Used	CRE MZ202
HP/HP Range	60

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	253/530
Length, ft.	20
Disk Span, ft.	18
Disk Area, sq. ft.	254
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	skids
Bldg. Materials	C, M

Beginner Build Time, hrs.	300
No. Completed & Flown	20
Kit Cost	\$25,000
Estimated Completed Cost	\$25K-\$31K
Quickbuild/Plans Available	N/N
www.innovatortech.ca	
403/669-3101	



Innovator Technologies
Mosquito XE

Cruise, mph	70
Stall, mph	n.a.
Range, s.m.	150
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	0/0
Engine Used	CRE MZ202
HP/HP Range	60

Fuel Capacity, gal.	12
Empty/Gross Weight, lb.	298/610
Length, ft.	22
Disk Span, ft.	19.5
Disk Area, sq. ft.	299
No. of Seats	1
Cockpit Width, in.	28
Landing Gear	skids
Bldg. Materials	C, M

Beginner Build Time, hrs.	300
No. Completed & Flown	22
Kit Cost	\$29,000
Estimated Completed Cost	\$29K-\$37K
Quickbuild/Plans Available	N/N
www.innovatortech.ca	
403/669-3101	



Innovator Technologies
Mosquito XE3

Cruise, mph	80
Stall, mph	n.a.
Range, s.m.	150
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	0/0
Engine Used	CRE MZ301
HP/HP Range	85/60-90

Fuel Capacity, gal.	12
Empty/Gross Weight, lb.	360/720
Length, ft.	21
Disk Span, ft.	19.5
Disk Area, sq. ft.	298
No. of Seats	1
Cockpit Width, in.	30
Landing Gear	skids
Bldg. Materials	M

Beginner Build Time, hrs.	300
No. Completed & Flown	2
Kit Cost (includes engine)	\$34,000
Estimated Completed Cost	\$34K-\$44K
Quickbuild/Plans Available	Y/N
www.innovatortech.ca	
403/669-3101	





Dual 10.4" EFIS for under \$10K
Pictured below: RV-7A panel with dual Odyssey system, including all engine sensors, AHRS sensors, and all available options:
Under \$10,000

The 10.4" Odyssey EFIS

Full EFIS with Engine Monitoring for any engine
Full AHRS with our 6th-generation sensors
Built-in Moving Map GPS
Highway-in-the-Sky (HITS) navigation
3D Synthetic Terrain
User-configurable screens
EFIS controls compatible radios, and accepts
Nav inputs from 3rd party GPS and Nav radios
Includes ARINC-429 Interface



RV-7A Panel

MGL Avionics has a range of over 60 instruments, including the new 2 1/4" Infinity Singles and the best-selling Enigma



3401 Airport Drive, Ste E
Torrance, CA 90505

1-877-8FLYING (835-9464)
mglavionics.com



Innovator Technologies
Mosquito XEL

Cruise, mph	65
Stall, mph	n.a.
Range, s.m.	60
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	0/0
Engine Used	CRE MZ202
HP/HP Range	64

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	312/580
Length, ft.	22
Disk Span, ft.	19.5
Disk Area, sq. ft.	299
No. of Seats	1
Cockpit Width, in.	28
Landing Gear	skids
Bldg. Materials	C, M

Beginner Build Time, hrs.	250
No. Completed & Flown	12
Kit Cost	\$30,000
Estimated Completed Cost	\$30K-\$38K
Quickbuild/Plans Available	N/N
www.innovatortech.ca	
403/669-3101	



Innovator Technologies
Mosquito XET

Cruise, mph	80
Stall, mph	n.a.
Range, s.m.	160
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	0/0
Engine Used	Solar T62-2A1
HP/HP Range	90/60-90

Fuel Capacity, gal.	12
Empty/Gross Weight, lb.	433/820
Length, ft.	21
Disk Span, ft.	19.5
Disk Area, sq. ft.	298
No. of Seats	1
Cockpit Width, in.	30
Landing Gear	skids
Bldg. Materials	C

Beginner Build Time, hrs.	400
No. Completed & Flown	2
Kit Cost	\$36,000
Estimated Completed Cost	\$43K-\$46K
Quickbuild/Plans Available	Y/N
www.innovatortech.ca	
403/669-3101	



Little Wing Autogyros, Inc.
LW-3

Cruise, mph	75
Stall, mph	n.a.
Range, s.m.	150
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	500/20
Engine Used	Rotec Radial
HP/HP Range	110/50-115

Fuel Capacity, gal.	8.5
Empty/Gross Weight, lb.	351/750
Length, ft.	18
Disk Span, ft.	27
Disk Area, sq. ft.	573
No. of Seats	1
Cockpit Width, in.	26
Landing Gear	tailwheel
Bldg. Materials	F, M, T

Beginner Build Time, hrs.	1000
No. Completed & Flown	10
Kit Cost (includes engine)	\$25,000
Estimated Completed Cost	\$10K-\$40K
Quickbuild/Plans Available	N/\$175
www.littlewingautogyro.com	
email: rotopup@aol.com	



Little Wing Autogyros, Inc.
LW-4

Cruise, mph	75
Stall, mph	n.a.
Range, s.m.	200
Rate of Climb, fpm	600
Takeoff/Landing Distance, ft.	300/10
Engine Used	Rotax 912
HP/HP Range	100/90-150

Fuel Capacity, gal.	13.5
Empty/Gross Weight, lb.	520/1100
Length, ft.	18
Disk Span, ft.	27
Disk Area, sq. ft.	573
No. of Seats	2
Cockpit Width, in.	26
Landing Gear	tailwheel
Bldg. Materials	F, M, T

Beginner Build Time, hrs.	1000
No. Completed & Flown	2
Kit Cost	\$35,000
Estimated Completed Cost	\$35K-\$75K
Quickbuild/Plans Available	N/\$175
www.littlewingautogyro.com	
email: rotopup@aol.com	



Little Wing Autogyros, Inc.
LW-5

Cruise, mph	90
Stall, mph	n.a.
Range, s.m.	450
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	300/20
Engine Used	Rotax 914
HP/HP Range	115/50-115

Fuel Capacity, gal.	28
Empty/Gross Weight, lb.	550/1100
Length, ft.	16
Disk Span, ft.	28
Disk Area, sq. ft.	615.7
No. of Seats	2
Cockpit Width, in.	26
Landing Gear	tailwheel
Bldg. Materials	F, M, T

Beginner Build Time, hrs.	1000
No. Completed & Flown	2
Kit Cost	\$35,000
Estimated Completed Cost	\$35K-\$75K
Quickbuild/Plans Available	N/\$175
www.littlewingautogyro.com	
email: rotopup@aol.com	



Magni USA, L.L.C.
M-14

Cruise, mph	90
Stall, mph	n.a.
Range, s.m.	170
Rate of Climb, fpm	950
Takeoff/Landing Distance, ft.	230/25
Engine Used	Rotax 912/914
HP/HP Range	100/100-115

Fuel Capacity, gal.	13
Empty/Gross Weight, lb.	547/1212
Length, ft.	13
Disk Span, ft.	28
Disk Area, sq. ft.	615
No. of Seats	2T
Cockpit Width, in.	20
Landing Gear	trigear
Bldg. Materials	C, T

Beginner Build Time, hrs.	300
No. Completed & Flown	100
Kit Cost	\$75,000
Estimated Completed Cost	\$76K-\$79K
Quickbuild/Plans Available	N/N
www.magnigyro.com	
573/883-3541	



Magni USA, L.L.C.
M-16/M-22

Cruise, mph	90
Stall, mph	n.a.
Range, s.m.	240
Rate of Climb, fpm	950
Takeoff/Landing Distance, ft.	230/25
Engine Used	Rotax 912/914
HP/HP Range	100/100-115

Fuel Capacity, gal.	19
Empty/Gross Weight, lb.	595/1212
Length, ft.	15.3
Disk Span, ft.	28
Disk Area, sq. ft.	615
No. of Seats	2T
Cockpit Width, in.	21
Landing Gear	trigear
Bldg. Materials	C, T

Beginner Build Time, hrs.	300
No. Completed & Flown	450
Kit Cost	\$75,000
Estimated Completed Cost	\$76K-\$78K
Quickbuild/Plans Available	N/N
www.magnigyro.com	
573/883-3541	



Magni USA, L.L.C.
M-18

Cruise, mph	70
Stall, mph	n.a.
Range, s.m.	130
Rate of Climb, fpm	650
Takeoff/Landing Distance, ft.	150/25
Engine Used	Rotax 582
HP/HP Range	65

Fuel Capacity, gal.	9
Empty/Gross Weight, lb.	368/771
Length, ft.	14.8
Disk Span, ft.	24
Disk Area, sq. ft.	452
No. of Seats	1
Cockpit Width, in.	19
Landing Gear	trigear
Bldg. Materials	C, T

Beginner Build Time, hrs.	250
No. Completed & Flown	40
Kit Cost	\$38,000
Estimated Completed Cost	\$39K-\$40K
Quickbuild/Plans Available	N/N
www.magnigyro.com	
573/883-3541	



Raven RotorCraft Inc.
Raven Lite

Cruise, mph	60
Stall, mph	n.a.
Range, s.m.	130
Rate of Climb, fpm	500
Takeoff/Landing Distance, ft.	150/50
Engine Used	Raven 1000 ULXX
HP/HP Range	55/45-65

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	254/504
Length, ft.	15
Disk Span, ft.	23
Disk Area, sq. ft.	414
No. of Seats	1
Cockpit Width, in.	24
Landing Gear	tailwheel
Bldg. Materials	C, M, T

Beginner Build Time, hrs.	100
No. Completed & Flown	1
Kit Cost	\$9995
Estimated Completed Cost	\$14K-\$16K
Quickbuild/Plans Available	N/N
www.raven-rotor.com	
303/440-6234	



RotorWay International
A600 Talon

Cruise, mph	100
Stall, mph	n.a.
Range, s.m.	200
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	0/0
Engine Used	R.I. 6005
HP/HP Range	167

/147-167	
Fuel Capacity, gal.	17
Empty/Gross Weight, lb.	965/1500
Length, ft.	29.5
Disk Span, ft.	25
Disk Area, sq. ft.	491
No. of Seats	2
Cockpit Width, in.	44
Landing Gear	skids

Bldg. Materials	C, M, T
Beginner Build Time, hrs.	600
No. Completed & Flown	10
Kit Cost	\$97,700
Estimated Completed Cost	\$105K-\$110K
Quickbuild/Plans Available	N/N
www.rotorway.com	
480/961-1001	



Sport Copter, Inc.
Lightning

Cruise, mph	50
Stall, mph	n.a.
Range, s.m.	50
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	200/0
Engine Used	Rotax 503
HP/HP Range	46/30-70

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	252/600
Length, ft.	11
Disk Span, ft.	23
Disk Area, sq. ft.	415.3
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	trigear
Bldg. Materials	C, M, T

Beginner Build Time, hrs.	60
No. Completed & Flown	68
Kit Cost	\$16,189
Estimated Completed Cost	\$22K-\$29K
Quickbuild/Plans Available	N/N
www.sportcopter.com	
503/543-7000	



Sport Copter, Inc.
Sport Copter II

Cruise, mph	100
Stall, mph	n.a.
Range, s.m.	300
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	100/20
Engine Used	Lycoming IO-360
HP/HP Range	200/180-250

Fuel Capacity, gal.	28
Empty/Gross Weight, lb.	1000/1650
Length, ft.	14.5
Disk Span, ft.	31
Disk Area, sq. ft.	n.p.
No. of Seats	2
Cockpit Width, in.	49.5
Landing Gear	trigear
Bldg. Materials	C, M, T

Beginner Build Time, hrs.	200
No. Completed & Flown	1
Kit Cost	\$59,995
Estimated Completed Cost	\$82K-\$105K
Quickbuild/Plans Available	N/N
www.sportcopter.com	
503/543-7000	



www.andair.co.uk

Andair LTD
Unit 15 The Tanneries
Havant
Hampshire
PO9 1JB
ENGLAND

Tel +44(0) 239 247 3945
Fax +44(0) 239 247 3946
email: info@andair.co.uk

ORDER ONLINE
RV LOCKING FUEL CAPS NOW SHIPPING
CUSTOM ENGRAVING AVAILABLE

Andair LTD. Manufacturers of World Class Fuel Equipment



Oil / Air Separator OS850

Easily dismantled for inspection / cleaning
Upper outlet can be rotated through 360° to aid fitting
Vortex swirl separation
O-ring seals
Light weight (180g - 6.4oz)
Mounting lugs on the base of the unit
Can be used in conjunction with the CT850 Condensation Trap.



Gascolator GAS375

Machined from Aluminium and anodised for protection
PTFE coated 70 micron stainless steel mesh
O-ring seals - Can be used on high pressure fuel systems
Available in 3 sizes up to 1/2"
Interchangeable fittings
Acceptable for use with Diesel and Jet A1



Fuel Selector FS20x7

Firm detent at each tank position
Clearly labelled fascia plate
Super smooth action
Positive stop for the OFF position (button must be raised)
Interchangeable fittings
Extension upgrade available
Duplex models available for fuel return lines



Sport Copter, Inc.
Vortex

Cruise, mph	75
Stall, mph	n.a.
Range, s.m.	100
Rate of Climb, fpm	700
Takeoff/Landing Distance, ft.	50/0
Engine Used	Rotax 582
HP/HP Range	67/67-115

Fuel Capacity, gal.	8.5
Empty/Gross Weight, lb.	420/760
Length, ft.	12
Disk Span, ft.	25
Disk Area, sq. ft.	490.8
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	tri with tail
Bldg. Materials	C, M, T, W

Beginner Build Time, hrs.	160
No. Completed & Flown	223
Kit Cost	\$22,801
Estimated Completed Cost	\$32K-\$37K
Quickbuild/Plans Available	N/N

www.sportcopter.com
503/543-7000



Star Bee Gyros
Gyrobee

Cruise, mph	55
Stall, mph	n.a.
Range, s.m.	75
Rate of Climb, fpm	600
Takeoff/Landing Distance, ft.	400/50
Engine Used	MZ 202
HP/HP Range	55/40-60

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	254/485
Length, ft.	12
Disk Span, ft.	22
Disk Area, sq. ft.	490
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	trigear
Bldg. Materials	T

Beginner Build Time, hrs.	150
No. Completed & Flown	40
Kit Cost (includes engine)	\$14,595
Estimated Completed Cost	\$10K-\$18K
Quickbuild/Plans Available	N/N

www.starbeegyros.com
803/663-1052



Vertical Aviation Technologies
Hummingbird 260L

Cruise, mph	90
Stall, mph	n.a.
Range, s.m.	375
Rate of Climb, fpm	1250
Takeoff/Landing Distance, ft.	0/0
Engine Used	Lycoming O-435
HP/HP Range	265

Fuel Capacity, gal.	57
Empty/Gross Weight, lb.	1750/2700
Length, ft.	30
Disk Span, ft.	33
Disk Area, sq. ft.	855
No. of Seats	4
Cockpit Width, in.	60
Landing Gear	quadricycle
Bldg. Materials	C, M

Beginner Build Time, hrs.	1200
No. Completed & Flown	39
Kit Cost (includes engine)	\$170,520
Estimated Completed Cost	\$175K-\$225K
Quickbuild/Plans Available	N/N

www.vertical-aviation.com
407/322-9488



Vortech, Inc.
A/W 95 Helicopter

Cruise, mph	60
Stall, mph	n.a.
Range, s.m.	90
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	0/0
Engine Used	Rotax 503
HP/HP Range	50/50-75

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	272/500
Length, ft.	15
Disk Span, ft.	19.5
Disk Area, sq. ft.	298
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	skids
Bldg. Materials	T

Beginner Build Time, hrs.	250
No. Completed & Flown	7
Kit Cost	\$22,995
Estimated Completed Cost	\$24K-\$26K
Quickbuild/Plans Available	N/\$100-\$108

www.prismz.com/helio
410/668-2757

SUBSCRIBE AND SAVE

Keep up with the homebuilt revolution!

For fastest service, visit us at www.kitplanes.com/subscribe or call us toll free at **800-622-1065**



Vortech, Inc.
G-1

Cruise, mph	50
Stall, mph	n.a.
Range, s.m.	90
Rate of Climb, fpm	900
Takeoff/Landing Distance, ft.	0/0
Engine Used	Kawasaki 440
HP/HP Range	42/42-55

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	150/420
Length, ft.	12
Disk Span, ft.	12
Disk Area, sq. ft.	113
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	trigear
Bldg. Materials	T

Beginner Build Time, hrs.	150
No. Completed & Flown	14
Kit Cost	\$16,995
Estimated Completed Cost	\$18K-\$19K
Quickbuild/Plans Available	N/\$34.95
www.prismz.com/helio	
410/668-2757	

**Vortech, Inc.**
Hot Rod Helicopter

Cruise, mph	90
Stall, mph	n.a.
Range, s.m.	210
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	0/0
Engine Used	Subaru EJ25
HP/HP Range	165

Fuel Capacity, gal.	18.5
Empty/Gross Weight, lb.	1000/1350
Length, ft.	20
Disk Span, ft.	25
Disk Area, sq. ft.	491
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	skids
Bldg. Materials	C, T

Beginner Build Time, hrs.	600
No. Completed & Flown	2
Kit Cost	n.p.
Estimated Completed Cost	n.p.
Quickbuild/Plans Available	N/\$233-\$245
www.prismz.com/helio	
410/668-2757	

**Vortech, Inc.**
Kestrel Jet Helicopter

Cruise, mph	55
Stall, mph	n.a.
Range, s.m.	20
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	0/0
Engine Used	G8-20 jets (2)
HP/HP Range	36/36-60

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	170/425
Length, ft.	12
Disk Span, ft.	25
Disk Area, sq. ft.	491
No. of Seats	1
Cockpit Width, in.	22
Landing Gear	skids
Bldg. Materials	M, T

Beginner Build Time, hrs.	250
No. Completed & Flown	9
Kit Cost	\$15,995
Estimated Completed Cost	\$17K-\$18K
Quickbuild/Plans Available	N/\$26.95
www.prismz.com/helio	
410/668-2757	

**Vortech, Inc.**
New Chopper

Cruise, mph	65
Stall, mph	n.a.
Range, s.m.	120
Rate of Climb, fpm	950
Takeoff/Landing Distance, ft.	0/0
Engine Used	Hirth 3203
HP/HP Range	65/55-75

Fuel Capacity, gal.	6
Empty/Gross Weight, lb.	285/630
Length, ft.	15
Disk Span, ft.	21
Disk Area, sq. ft.	346
No. of Seats	1
Cockpit Width, in.	23
Landing Gear	skids
Bldg. Materials	T

Beginner Build Time, hrs.	250
No. Completed & Flown	5
Kit Cost	\$29,995
Estimated Completed Cost	\$31K-\$33K
Quickbuild/Plans Available	N/\$58
www.prismz.com/helio	
410/668-2757	

**Vortech, Inc.**
New Chopper Ultralight

Cruise, mph	55
Stall, mph	n.a.
Range, s.m.	120
Rate of Climb, fpm	900
Takeoff/Landing Distance, ft.	0/0
Engine Used	Rotax 503
HP/HP Range	50/45-60

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	254/500
Length, ft.	15
Disk Span, ft.	21
Disk Area, sq. ft.	346
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	skids
Bldg. Materials	T

Beginner Build Time, hrs.	200
No. Completed & Flown	4
Kit Cost	\$22,995
Quickbuild/Plans Available	N/\$52-\$58
www.prismz.com/helio	
410/668-2757	

**Vortech, Inc.**
Shadow

Cruise, mph	70
Stall, mph	n.a.
Range, s.m.	170
Rate of Climb, fpm	1500
Takeoff/Landing Distance, ft.	100/25
Engine Used	Lycoming O-360
HP/HP Range	150/150-230

Fuel Capacity, gal.	12
Empty/Gross Weight, lb.	750/1290
Length, ft.	13
Disk Span, ft.	29
Disk Area, sq. ft.	660
No. of Seats	2
Cockpit Width, in.	48
Landing Gear	trigear
Bldg. Materials	C, M, T

Beginner Build Time, hrs.	350
No. Completed & Flown	6
Kit Cost	\$19,995
Estimated Completed Cost	\$28K-\$33K
Quickbuild/Plans Available	N/N
www.prismz.com/helio	
410/668-2757	

**Vortech, Inc.**
Skylark Helicopter

Cruise, mph	70
Stall, mph	n.a.
Range, s.m.	120
Rate of Climb, fpm	1000
Takeoff/Landing Distance, ft.	0/0
Engine Used	Hirth 3503
HP/HP Range	70

Fuel Capacity, gal.	8
Empty/Gross Weight, lb.	350/700
Length, ft.	17.5
Disk Span, ft.	19
Disk Area, sq. ft.	283
No. of Seats	1
Cockpit Width, in.	26
Landing Gear	skids
Bldg. Materials	T

Beginner Build Time, hrs.	350
No. Completed & Flown	6
Kit Cost	\$31,795
Estimated Completed Cost	\$33K-\$34K
Quickbuild/Plans Available	N/\$81
www.prismz.com/helio	
410/668-2757	

**Vortech, Inc.**
Sparrow

Cruise, mph	60
Stall, mph	n.a.
Range, s.m.	90
Rate of Climb, fpm	900
Takeoff/Landing Distance, ft.	100/50
Engine Used	Rotax 503
HP/HP Range	50/50-60

Fuel Capacity, gal.	5
Empty/Gross Weight, lb.	254/500
Length, ft.	9
Disk Span, ft.	23
Disk Area, sq. ft.	415
No. of Seats	1
Cockpit Width, in.	n.p.
Landing Gear	trigear
Bldg. Materials	C, T

Beginner Build Time, hrs.	150
No. Completed & Flown	6
Kit Cost	\$3795 (partial)
Estimated Completed Cost	\$9K-\$11K
Quickbuild/Plans Available	N/N
www.prismz.com/helio	
410/668-2757	



LSA
LEGAL

GOT WINGS?

Here's what you get in
EVERY ISSUE of **KITPLANES**®



- Aircraft Flight Reviews
- Construction Hints & Tips
- Hands On Projects
- The Latest in Avionics
- New Products for Experimentals
- Real World Builder Experience

Expert advice on how to plan, build and complete your own aircraft!

Subscribe to *KITPLANES*® and receive these extras:



- Unlimited web access to www.KITPLANES.COM
- FREE access to our Editorial Archive of issues
- FREE Aircraft Directory searches
- FREE Supplier Directory searches

For fastest service, visit us at
www.kitplanes.com/subscribe
or call us toll free at **800-622-1065**