

Recommended Ultra-Prop Combinations

Generic	Engine	HP	Reduction	Prop	Diameter*	Pitch**
	R503 DC	52	2.58:1	104	59"	15 or 16
	R503 SC	48	2.58:1	104	59"	14 or 15
(best)	R447	40	2.58:1	104	59"	13 or 14
	R477	40	2.58:1	104	59"	16
(best)	R377	35	2.58:1	103	59"	13 or 14
	R377	35	2.58:1	104	59"	11
	R277	28	2.58:1	103	59"	10 or 11

Airboats	Engine	HP	Reduction	Prop	Diameter	Pitch
	Honda/B&S	13	direct drive	103	36"	13
	Honda/B&S	20	direct drive	103	42"	15 or 16
	Honda/B&S	20	direct drive	104	42"	14

Generic	Engine	HP	Reduction***	Prop	Diameter	Pitch
	Hirth F33	28	2.5:1	103	59"	10 or 11
	Hirth F33	28	2.5:1	103	52"	17 or 18
	Hirth F33	28	2.5:1	102	59"	13 or 14
	Hirth F33	28	2.5:1	102	55"	17 or 18

MZ 34	27-32	2.34:1	103	57"	10 or 11
MZ 34	27-32	2.34:1	103	52"	15 or 16
MZ 34	27-32	2.34:1	103	49"	17 or 18
MZ 34	27-32	2.34:1	102	59"	10 or 11
MZ 34	27-32	2.34:1	102	57"	13 or 14
MZ 34	27-32	2.34:1	102	52"	17 or 18

Aircraft	Engine	HP	Reduction	Prop	Diameter	Pitch
CCS Hawk	Cuyuna 430 Cuyuna UL II-02 KAW. 440	30 35 35	2.4:1	103P	59"	14 deg cruise or 13 deg climb
Eipper MX II	Rotax 503	48	2:1	103P	52"	15 degrees
Eipper MX I	Cuyuna 430 Rotax 377	30	2:1	103P	52"	12 or 13 deg.
Eipper GT	Rotax 477	38	2.58:1 gear	104T or 103T	59" 59"	13 deg. or 14 deg. 15 deg. or 16 deg.
Wizard T-38B	Rotax 503 Rotax 377	48 36	2.2:1	103P 103P	59" 59"	14 deg. 12 deg.
Condor II	Kaw. 440	38	-	103P	56"	16 deg.

Eagle XL	Cuyuna 430 Cuyuna UL II-02	30	2.4:1	103P	59"	14 deg.
Falcon	Rotax 277	28	2.4:1 2.58:1 gear	103P 103T	54" 55"	13 deg. 15 deg.
Teratorn TA Tierra, single	Rotax 277 Rotax 377	26 35	2.58:1 gear	103P 103P	59" 59"	13 deg. 12 deg.
Tierra, two-pl.	Rotax 277 Rotax 503 Rotax 477	28 48 38		2.2:1 2.58:1 gear	103T 103P 104T	59" 59" 59"
Aerodyne Vector	Rotax 377	35	-	103P	53"	12 deg.
Fledge Foxbat	Cuyuna 430	30	2:1	103P	53"	13 deg.
Kolb Ultrastar	Cuyuna UL II-02	35	2:1	103P	50"	16 deg.
Star Flight TX 1000	Rotax 377	35	2:1	103P or 104P	59"	16 deg.
	Rotax 377	35		103P	59"	14 deg.
					54"	12 deg.
Buccaneer	Rotax 277	28	3.078:1 planetary	104P	59"	16 deg.
	Rotax 277	28	2.58:1 gear	103T	59"	11 deg.
	Rotax 447	38	2.58:1 gear	104T	59"	14 deg.
Pioneer Flt Star	Kaw. 440	38	2.1:1	103T	54" 58"	12 deg. 10 deg.
Cobra	Cuyuna 430	30	2:1 planetary	103T	54"	12 deg.
FP 101	Kaw. 440	35	2.4:1	103T	56"	13 deg. or 14 deg.
Phantom	Kaw. 440A	37	1.96:1	103T	57"	12 deg.
Mono Fly	Rotax 503	54	2.5:1	103P	59"	16 deg.
Quad City Challenger	KFM 107 ER	25	2.1:1	103P	52"	11 deg.
	Rotax 503	48	2.2:1	103P	54":	15 deg.

Birdman Chinook	Rotax 503	48	2.18:1	103P	58"	13 deg.
	Rotax 277	28	2.5:1	103P	54"	14 deg.
Maxair Sports Hummer Drifter DK440 Drifter XP	Rotax 277	28	2.25:1	103P	56"	10 deg.
	Rotax 277	28	2.58:1 gear	103T	56"	14 deg.
	Kaw. 440	38	2.25:1	103P	59"	13 deg.
	Rotax 503	48	2.25:1	103P	59"	14 deg.
Rotec Rally 2B Rally 3 Rally Sport	Rotax 377	35	2.25:1	103P	54"	13 deg.
	Rotax 503	48	2.25:1	103P	59"	13 deg.
Air Command Gyrocopter	Rotax 447	38	2.58:1 gear	104T	59"	13 deg.
	Rotax 503	48	2.58:1 gear	104T	59"	14 deg.
Spectrum Beaver	Rotax 277	28	2.58:1 gear	103T	59"	11 deg.
	Rotax 447	38	2.58:1 gear	104 T	59"	13 deg.
Cascade Kasperwing	Rotax 503	48	-	104P	59"	10 deg.
Pterodactyl	Cuyuna 430	30	2:1	103P	55"	10 deg.
Jetwing Trike	Kaw. 440	38	2:1	103P	54"	12 deg.
Sorrell Hyperlight	Rotax 277	28	2.5:1	103T	59"	11 deg. or 12 deg.

*Increase pitch by one degree for every one inch decrease in diameter.

**A change in pitch of one degree is worth about 200-300 change in engine RPM. Increasing pitch will decrease RPM. Decreasing pitch will increase RPM.

***Other lower reduction ratios are available.