## March 2024 - Dualsky XM3045EG-12 on 6S and 4S GPS logs

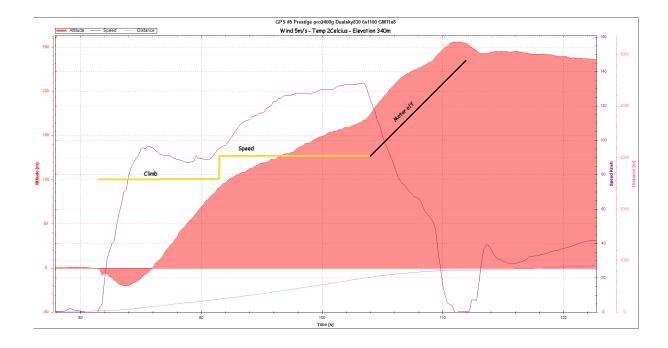
Have not had time to do GPS tests on the EG-12 from Dualsky. But now the weather was favourable although wind was low. To be sure I did some altitude tests upwind/downwind to see wind speed at 200m altitude. Meassurements was 5m/s difference and that means the wind there was about that. On ground it was lower. So I have opted to disregard the wind speed but if you count it also it means 100m more distance covered. If the winds speed had been 12m/s it would mean 100m less distance covered. The old numbers in the excel sheet is done in maybe slightly higher wind and maybe not compareable as I have learned more on how to do the upwind effectively. But I leave them there as they are good numbers. Beware the amp numbers are high and the battery used are drone battery. So never do more than one 30sec go as temperature on motor rises even long after it has stopped. I should have liked to have the new Dualsky 6S900 long battery that should fit in the Prestige nicely but that will have to be a later test when I get my hands on them.

So to the test. I wanted to have a setup that I can run FAR upwind in high wind conditions. It will need to perform very good at 2400g or even higher weights. It also needs to be stable in 100+ flights without burning any motor, esc, battery or connector. I had a few Dualsky motors to test and the XM3045EG-12 at 830kv is doing what I hoped for. Motor is direct driven with a low kv so I could use smaller props with slightly higher pitch. Launch is at 50% power and I go to full power within 2-3 seconds. This helps not having extreme amps when props are stalling in the air before model gets a bit speed.

I have opted to climb first and then fly "straight" to build speed. To me this is easier to find a certain altitude and have a few more benefits. Today I launched 45 degrees to the side of the sun and actually had to stop motor at about 20seconds since visibility of model was poor. Numbers were logged on Altis GPS that logs both altitude and position. Looking at the numbers I will reach over 1000m forward if I use all 30 seconds of motor and try to end up at 200m. I am very happy on the test and it shows I have found some good setup for high wind were I want to reach some distance away. I did 3 tests on 6S and a couple on 4S with same motor/esc (bigger prop with high pitch from CCM). Could have done a lot more different props but I wanted to have fun and enjoy the day on the ice also;-)

Conclusion is that a direct drive Dualsky is sure enough a possibillity for extreme setup in wind F5J

		Speedtesting forward																
	Straight spee	d Motor	Weight	KV	Battery	Prop	Max amp	Climb amp	Straight amp	Max range 2	Weight model	Zoom m	Temp outs	Temp mo	tcTemp batt A	lititude fSj	Altitude MA	speed 30s
233	7	Dualsky XM3040EG-9	104g	1350	4S Turnigy 65	0 RF11x6,5	60	45		700,0	1650	18	-C* 2		C* 25	248	340	23ms
232		Dualsky XM3040EG-9	104g	1350	4S Turnigy 65	0 RF11x6,5	59	45		650	1650	25	-C* 2		C* 25	224	340	20ms
217		Tenshock 1510A02	107	3550	45 Turnigy 65	0 GM15x8	35	31	25	500	1700	15	C* 20	35	C* 20	210	500	17ms
216		Tenshock 1510A02	107	3550	4S Turnigy 65	0 GM16x10	45	37	32	580	1700	15	C* 20	40	C* 20	180	500	20ms
5	36ms	Dualsky XM3045-EG12	120g	820	6s 1100CNHL	GM 11x8	62	apx54	apx48	1050	2400	35	C* 2	50	C* 20	230	340	35ms
7	79ms	Dualsky YM3045-EG12	1200	820	As gon	CCM 13v0	58	anv47	anv28	800	2400	20	C* 2	50	C. 30	185	340	276ms



# November 2023 - Dualsky XM3045EG-12 6S/4S motor and Dualsky 6S ESC

I got a question if I could include some new Dualsky motor(s) and a new ESC. These are intended for higher number of cells as this might be more efficient when one want to have a heavy F5J plane in strong wind. In strong wind one needs forward speed to overcome the wind and also travel forward to start the flight far in front. This way one can follow a thermal for a longer time than if one starts straight above. I received a couple of motors where I soon concentrated on one of them that are actually in the shops at some resellers. I also received a couple of new thin and light motor controllers that is rated to 60A/6S namely the Dualsky Summit 60X.08. Based on BlHeli it can be programmed by USB programmer or thru an old drone Flightcontroller (that is what I do). They come in two versions with BEC 8V or 6V but also a slim/light version have been seen on webshops. Ready soldered together with the XM3045EG-12 the weight is 155g. Beware the motor normally needs 32mm nose but I have mounted it in 30mm also but deppends how well moulded the noses are and how much material is used.

My main goal for the tests was to find a 6S setup with some good pitch that could cover a lot of ground in high wind situations with heavy ballast. But would also be nice to use the same setup on 4S for all "normal" conditions. Testing have shown one actually can just change directly from 4S to 6S when carefully choosing propellers.

One can debate if my old tests from some years ago might have to be done again with the same batteries I have today. But the biggest difference is that some of todays batteries I can do two or even 3 starts with voltage not sagging. This makes it easier to also do the straight line test of amperage I want to include. I used a rather big 6S1100 (rebuilt to 3+3) so I was sure to have enough juice. A smaller 6S might give slightly lower numbers. Especially on the higher amps tests. In competitions I intend to use around 6S 700-900mah that will be heated if the temeperature is below 10-15C.





The motor is designed just like the other canned Dualsky motors as an outrunner that is encapsuled so that the wires can come out from the back and the motor can be screwed directly to the bulkhead. I must say it is amazing quality and the motor never touch the outer shell even at much higher loads than intended on the design.

So is a canned outrunner performing on the level of a geared inrunner? Yes I will say they actually are doing very well. You need slightly more width of the nose but performance of these outrunners have really caught up with the geared stuff.

Testing shows this motor has a fine line around 45-50A when it starts to heat up even at our max 30second runs. So when you choose a setup try to keep under 45-50A. Beware of two things. These tests were done in winter (though with sealed bulkhead and heated batteries) and I do not test motor on the

ground. There is absolutely no point in doing tests on the ground for more than a few seconds because propellers are cavitating and using much more amps than in the air. So DO NOT run F5J motors on the ground for 30seconds on full speed. And meassuring on ground has no point at all. That is also why I state the startup amps that usually goes down to climb amps within a few seconds. So what props did I like best? Well props are getting more and more equal. I mostly use the best carbon brands in my tests (GM, CCM, CN, VM). I think the numbers still tell small advantage from some. If you want me to test others you will have to send me. I have used enough money on stuff and pay full import taxes even on test motors as Norway is outside EC.

There is still tests to be done with GPS/pitot tube but that will have to come later. Hopefully I can do tests side by side in same conditions with the best geared setups from last summer. That will also be interesting.



Conclusion: This is a very interesting and good motor (Dualsky XM3045EG-12 with Dualsky Summit 60X.08) to use from light/normal and up to fully ballasted 2400g F5J models. The climb values on some of the tests are just fantastic and rarely seen on these tiny setups. It is a safer choice for 6S and probably also 4S than the XM3045EG-8 I tested earlier. It also shows small differences in props make huge impact on climb rate and amps. The ESC has been great with not a single hickup and I could program full brake and heavy startup since the outrunner can take it. Big congrats to Dualsky for yet another super F5J motor / ESC

All the other motortests is at the end of this document

	Weight model	Motor	Weight K	V Ba	attery	Prop	Max amp	Climb amp	Straight amp	Sec. to 200m	Max m 30sek	Max climb m/	Temp out	Temp mot	* Temp bat*	Altitude MASL	Weight mod	Zoom m
282	2 400g	Dualsky XM3045-EG12	120g	820 6s	s 1100CNHL	GM 10x6C.L	39	33	30	13	435	15	C <sub>o</sub> 0	<30	20	450	2400	11
283	2 400g	Dualsky XM3045-EG12	120g	820 6s	s 1100CNHL	9x7 CN	39	35	34	15	377	13	C <sub>o</sub> 0	<30	20	450	2400	11
284	2 400g	Dualsky XM3045-EG12	120g	820 6s	s 1100CNHL	11x7 CCM	52	45	43	11	522	18	C <sub>o</sub> O	50	20	450	2400	14
155	2 400g	Dualsky XM3045-EG12	120g	820 6s	s 1100CNHL	11x8 GM	57	50	44	11	522	18	-C° 10	50	20	450	2400	14
156	2 400g	Dualsky XM3045-EG12	120g	820 6s	s 1100CNHL	11x8 CN	57	53	45	13	464	16	-C° 10	60	15	450	2400	16
287	1 500g	Dualsky XM3045-EG12	120g	820 6s	s 1100CNHL	9x7 CN	33	30	25	13	435	15	C <sub>o</sub> O	<30	20	450	1500	16
152	1 500g	Dualsky XM3045-EG12	120g	820 6s	1100CNHL	11x6 GM	48	39	33	10	580	20	-C° 5	50	20	450	1500	21
286	1 500g	Dualsky XM3045-EG12	120g	820 6s	1100CNHL	11x7 CCM	52	44	42	10	609	21	C° O	50	20	450	1500	24
290	1 500g	Dualsky XM3045-EG12	120g	820 6s	1100CNHL	11x8 GM	54	44	42	10	609	21	C° 0	50	20	450	1500	20
151	1450g	Dualsky XM3045-EG12	120g	820 45	s 900	11x6 GM	29	24	18	20	290	10	-C° 5	<30	20	450	1450	7
159	1450g	Dualsky XM3045-EG12	120g	820 4s	s 900	11x7 CCM	28	26	23	17	348	12	-C° 10	<30	15	450	1450	7
158	1450g	Dualsky XM3045-EG12	120g	820 45	s 900	11x8 GM	35	32	30	15	377	13	-C° 10	<30	15	450	1450	9
157	2 400g	Dualsky XM3045-EG12	120g	820 4s	s 900	11x8 GM	37	33	29	22	261	9	-C° 10	<30	15	450	1450	5
161	1450g	Dualsky XM3045-EG12	120g	820 4s	s 900	12x8 CCM	42	36	31	12	493	17	-C° 12	<30	20	450	1450	11
308	1450g	Dualsky XM3045-EG12	120g	820 4s	s 900	12x8 VM	45	37	34	12	493	17	-C° 5	<30	20	450	1450	
163	1450g	Dualsky XM3045-EG12	120g	820 4s	s 900	13x8 GM	48	42	36	13	435	15	-C° 12	<30	15	450	1450	12
162	1450g	Dualsky XM3045-EG12	120g	820 4s	s 900	13x9 CCM	52	46	38	13	464	16	-C° 12	45	15	450	1450	14



# September/October 2023 - CCM props

Long time since my first tests and it has given me a lot of good information whenever I want a change or need that small extra. This summer World Championship F5J showed us some horrible conditions that needed a lot of ballast and powerful powercombo with lots of pitch. I never thought I would need a 6-8cell setup but that is what I should have prepared for. I did not bring the right motors for that but high pitch propellers were in my box. So GM Competion line and a brand new CCM 13x9 was with me. These props were vital as I (we the whole team actually) was stuck in 4S setup and needed that extra speed forward in up to 18m/s in the gusts of some rounds. It was vital to end up 6-800m

ahead at just under 200m. That is ok with lots of my 4S setups in calm weather but not with more than 12m/s headwind... So we ended up using bigger 4S batterier and my main propeller became the CCM13x9 on a Tenshock 1510-5000kv motor and AX40/AX60 controller. We did end up in 4<sup>th</sup> place as team so I would say it was successful tuning. Now into autumn it was time to test some more CCM props (CCM11x7, 12x8 and 13x9) on different motors and 3, 4 and 6cells.

Beware when reading all my numbers that they might all have some detail you must pay attention to. First of all is type of battery. All batteries have different inner resistance and some of them needs to be heated to give full power. Some even sag a lot when they are not heated to above 25celcius. So choosing a worse battery or a very good battery will give you different results. It is not like one motor gives a



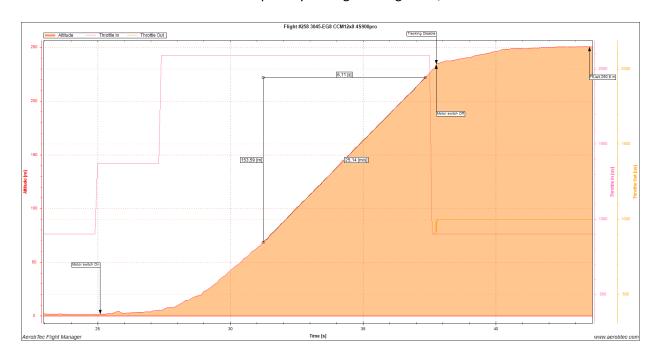
certain amps. A good indication on that is from test 245 compared to 252 where is used a different battery with the same amount of cells. That battery sagged a lot (voltage dropped) and gave a poor result. It is the whole system from total weight, plane type and setting, battery, contacts, motor, controller, propeller, spinner type that gives some climb rate. Another thing is weight of plane tested and height above sea level at the test.

The CCM props clearly performs up there with the best props and have well thought out pitch numbers for the F5J task. They are not under cambered and is wide enough to get things going



before they really grab the air. I also acquired a 30mm CCM spinner and together with the Prestige 30mm fuse the CCM 11x7 fits well. CCM 12x8 is not folding super all the way around but might be usable. CCM13x9 is not fitting with the CCM 30mm spinner. But I found the Vladimir spinners have slightly bigger yoke so I could use them. Also the more standard Vladimir spinners made it possible to use the CCM props on the 32mm Prestige nose. The way the props are designed they fit best with a "Z" yoke but can off course be used with a more standard straight Yoke from GM or similar. The reason for a "Y" yoke is that a high pitch prop will be more "flat" on the fuse. It should also be said that the spinner has a very clever and nice solution with inside screw to keep the spinner completely smooth on the nose.

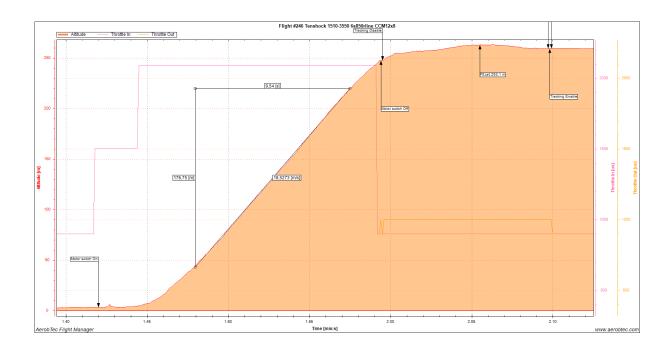
After a comment on Facebook I tested the CCM 12x8 and the VM 12x8 on the Dualsky 3045-EG8 / Dualsky 65lite with strong 4s900 batteries. That is not something I recommend but the motor can take the power for 10-12seconds and that is enough to reach 200m with 1500g model in 8-10 seconds. BUT none of the components are rated for the 100A (75A during climb) you are pulling. So be very careful as some component will at some point fail. Especially testing on the ground,



I also got a 25mm spinner and props for turning some older DLG's into electric F5K models. But that is a different story.

So a small conclusion is that the CCM line of props (ccm.in.ua) is fantastic and a good choice for a proper setup. They work with both direct setups and geared setup and will give you confidence if mated with a good complete setup

	Motor	Weight KV	Battery	Prop	Max amp	Climb amp	Straight amp	Sec. to 200m	Max m 30sek	Max climb m/s	Temp out	Temp mot	Temp bath	Altitude MASL	Weight mod	Zoom m
258	Xpower 2926/8 windy	102g 1380	4s 900	11x7 CCM	60	59	58	12	493	17	C° 10	HOT	20	450	1500	14
260	Xpower 2926/8 windy	102g 1380	3s 850 95C	11x7 CCM	52	44	42	15	377	13	C° 10	<30	21	450	1500	10
263	Xpower 2926/8 windy	102g 1380	3s 850 95C	12x8 CCM	59	49	48	18	319	11	C° 10	50	22	450	1500	7
267	Xpower 2926/8 windy	102g 1380	4s 900	12x8 CCM	70	58		14	406	14		Too hot		450	1500	12
242	Dualsky XM3045-EG8	120g 1250	3s 850 95C	11x7 CCM	55	42	39	13	464	16	C° 10	<30	24	450	1500	8
243	Dualsky XM3045-EG8	120g 1250	4s 900	11x7 CCM	60	57	54	15	377	13	C° 10	<30	25	450	1500	20
257	Dualsky XM3045-EG8	120g 1250	4s 900 Dualsky	12x8VM	101			10	609	21	C° 15	50	30	450	1500	31
258	Dualsky XM3045-EG8	120g 1250	4s 900 pro	12x8VM	97	76		8	725	25	C° 15	50	30	450	1500	30
253	Tenshock 1510A02	107 3550	6s 1100CNHL	12x8CCM	44	39	33	10,0	580,0	20	C° 14	50	25	450	1550	28
245	Tenshock 1510A02	107 3550	6s R-line 850	11x7CCM	29	28	24	13,3	435,0	15,0	C° 14	<30	25	450	1500	14
246	Tenshock 1510A02	107 3550	6s R-line 850	12x8CCM	41	33		11,1	522,0	18,0	C° 14	50	25	450	1500	15
247	Tenshock 1510A02	107 3550	6s R-line 850	13x9CCM	46	39	34	10,5	551,0	19,0	C° 14	Hot	25	450	1500	18
250	Tenshock 1510A02	107 3550	4s 900 Dualsky	13x9CCM	29	25	20	16,7	348,0	12,0	C° 14	<30	25	450	1500	7
252	Tenshock 1510A02	107 3550	6s Tattu 650	12x8CCM	30	27-23	25	sagging batt		14-12 batt	C° 14	<30	25	450	1500	8





## August/September 2022 - Dualsky XM3045EG-8

In Hungary at the European Championship F5J I received a Dualsky XM3045EG-8 motor for testing.

The motor is a "beefed up" version of the XM3040EG-9 and is heavier but should also take more power and more motor time before getting hot. The idea is that windy F5J models or even GPS light models up to 2,8kg could use this motor. My team mate happened to buy a used model at the the event so I borrowed him the motor and controller for use during the event. The motor were used for 20 starts before I got it back. Then I started testing it with different weights, props and batteries. The motor was installed in a typical 32mm nose for the Prestige 2PK F5J model and I used the Dualsky X-65-Lite controller as this has proven before to be a inexpensive but good controller. First tests were done with 1350g model and 4s650mah Tenshock battery



and 4s600mah Dualsky battery. For the heavier model test (2100g) I also doubled up with 2pcs 4s600mah in paralell so that the battery becomes a strong 4s1200mah 120C battery. This also confirmed my numbers using single 4s600 batteries.

Equipment used for the tests were:

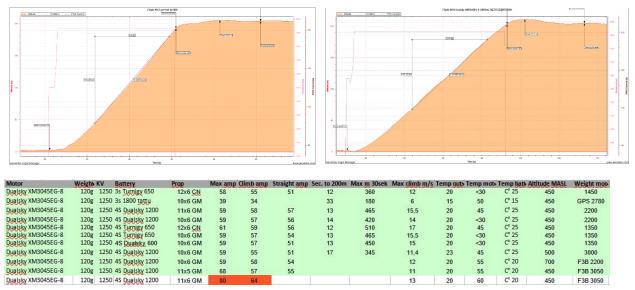
Motor Dualsky XM3045EG-8 with controller XC-65-Lite.

Model Prestige 2PK light and F3J (1350g, 1500g, 2000g, 2200g, 3000g)

Batteries 3s650mah 75C Tenshock, 4s650mah 75C Tenshock, 4s600mah 120C Dualsky Alti nano/V4+, Unisense-E

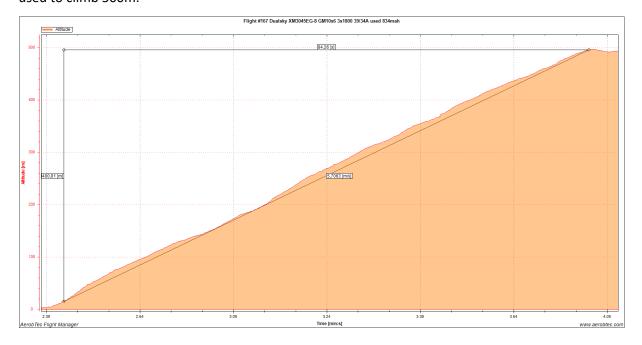
Now after testing and validating the numbers I can say the motor performs just as it should. It would be a very nice motor for any F5J model or GPS light model on 3 or 4 cells. Amps during testing have been held under 65A but I think it can take a lot more as the temperature of the motor has never exceeded 50Celcius even after many tests in a short time period.

Test results is also in the Excel sheet is at the end of this document to compare with other motors.



#### GPS Light:

The Prestige 2PK is excellent for GPS Light class were max takeoff weight is 2598g (Vtail 2648g). So I ballasted the strong 130% F3J version (very similar to GPS version) to 2780g (180g more than allowed) and did some tests with the specially designed GM 10x6C.L propeller and C.L 32mm spinner (can be bought thru samba or dealers). It is specially designed for the 32mm Prestige nose cone to have very little drag and because it is a small propeller the drag is even less also sideways when folded. In GPS class there is no need for fast launch but it needs to be safe for launch in turbulent conditions and have enough power to do several climbs to <350m before you enter the course (searching for thermals). This test is therefore done with heavier and higher than allowed to be sure it is a good setup. Climb rate was on average 5,7m/s in turbulent air but stable thru-out many climbs/tests at 5,5-6,5m/s. Launching felt very safe with good acceleration. A total of 830mah was used to climb 500m.



Put the Dualsky XM3045EG-8 motor in my Pike Precision 2 from Samba Model. Fit is excellent. Flew 4 flights with mostly aerobatics and using 800-1000mah of a 4s1200 pack (double 4s600 Dualsky). The motor got slightly warm around 50-60 degrees on the 2nd flight were is used 1000mah during 5min. Esc was Dualsky Lite 65 (did not get warm). It seems the motor is excellent for F3B/F model flying aerobatic fun or F3G competition. For sure can recommend this setup for such model.

Further testing with ballast and different propellers have also been done. Climb rate 12-15m/s at 2300g flying weight and 10-12m/s at 3050g flying weight. Using 11x6GM on 4S is possibly pushing the motor when using more than one climb. Heat was building up a bit in the motor.



# January/February 2021 - Tenshock 1510A01-04

4 new motors and 2 controllers arrived. This is final version motors I think. They made the gear parts more solid and have winded a couple more versions (3550, 3950, 4650 and 5000kv). All have the same gear. The new controllers are 2-4 cell with a beefy 10A BEC. First impressions on logs is a very stable BEC voltage.

Both controllers (TS AX40) and motors (Tenshock 1510A01 to 04) have been tested a lot of flights and well above max what specifications said was max. They seem to be very robustly made and can cope with long endurance. I will open up the gears and check for damages at a later point but no noise changes have been heard during testing and no over heat or smell from windings have been observed. They are for sure good combinations. A new TS AX60-PRO is also released now for those that wants up to  $6\mathrm{S}$  /  $1000\mathrm{w}$ att setup.



Not many starts yet and temperature is low outside. So beware that there are some uncertainties as even when I heat the small batteries to 25-30 degrees they can be much lower before I manage to start the model. One could heat to 35-40Celcius and they do give more power this hot. But I try to not push them too far and instead try to show what we have in a normal summer day. I could do tests also with high temperature batteries but I have to draw the line somewhere on how many tests I do..

Some of the tests is done with 6S and 8S batteries as these motors can easily cope with the higher voltage with correct props. So beware the columns showing what battery/props is used.

These 6S/8S tests are not done with the Tenshock controller but a castle edge lite50 (Timing at 6degrees) and a Dualsky 6S controller. Now a new 6S/1000watt Tenshock is released that should be excellent for those bigger power setups.

Probably my motors will not be run much on more than 4S setups (4cells series) as testing have proven 4S is plenty power for F5J use or fun flying.





I have also included a new propeller that is made by Solidtec (design by Julian Benz and sold thru servorahmen.de). It is just called A1. Max rpm is 11000 and max 1900watt. Weight 6,6gr. Propeller is made from carbon fiber reinforced plastic by injection molding. It is an interesting material if mixed correctly. We know Solidtec is good at this from the servo frames they also produce. But care should be taken after landing hard as always. Landing tests have to wait for spring time as I have only snow and ice now

The propeller seems to be performing well and I have done some tests with different motors (see excel sheet below). It also corresponds with the producers own tests. Small differences is probably battery temperature and battery type. Timing can also do differences.



May 2020 - Tenshock new motors

Sooo.. another update and why some of you might be interrested.

As many know I have been doing motor/prop/battery testing sincec winter. Not really scientific but good enough so I can be confident on my motor combos. I have off course no time or money to test all out there but a selection of what i have or got. This time the update is after I got some new Tenshock motors. <a href="http://www.tenshock.com/ts-gdm1510a-planetary-gear-drive-motor-4-75-1.html?fbclid=lwAR04m3GeYOlTKk\_ScTHNVuT-ZFQCTjDzp1p0CxM9PjDAcc3ph7dsdTU74fw">http://www.tenshock.com/ts-gdm1510a-planetary-gear-drive-motor-4-75-1.html?fbclid=lwAR04m3GeYOlTKk\_ScTHNVuT-ZFQCTjDzp1p0CxM9PjDAcc3ph7dsdTU74fw</a>. They

have made their own gears and two new motors specially designed for F5J 3 and 4 cell setups. Looking nice, good weights and a nice feature of motor front screw that means you will not destroy it by using too long screws. It also has so many holes that it will fit even if you have used 3 screw reisenauer before. Just make some new holes and one can switch back and forth.

The motors run very quiet and together with some quiet props you are almost stealth compared to some others ;-)

I dont think I have found the best setup yet as I have only reached 13m/s as best. But forward speed is decent for windy conditions (Reaching 5-600m forward in 5-6m/s wind). I might want to use the 3S motor with 4cell?.. Need to complete more props before I do that as it is more than it is spec'ed for.

On my motors there are some improvement points that I think they will adresse. They had forgotten to put some loctite on the gear case and I think the later produced shafts will be "D" connection. We pilots like very fast start and hard braking. That is hard on the gears..

So a small conclusion on these two Tenshock motors:

Quiet. Runs smooth and within specs they do not get too hot.

Design and fit is good. And it fits small fuses that had previously had other screw holes. Performance could be better for heavier models. 2kg and launching to 200m far forward is ok but not more. Might be different view when/if I do more testing. Using more cells than spec might probably be good as rpm on gear is not at max (speced 70000rpm)

Assembly gears had some faults that they should have fixed on later deliveries (I got early birds).

### March 2020

So time to release all my test results.. though I am far from finished  $\stackrel{\bigcirc}{\cup}$ 



In F5J your means of start is a motor and 30seconds to use that. You want enough power for 30seconds but also some extra for practice and an hour of two flying. We dont want to getvas much altitude as possible because the lower we launch and fly 10min the better score we get. Over 200m we get extra penalty so to use the 30sec motortime properly is important. Last year I started to use some really small and powerful 4 cell batteries from Turnigy. They have been great and one can push them far even cold (some increase though heated)

Last year I used several different gear motors but I was fairly impressed by the cheap AXI 2217/12 v2 Long that gave me some good results in competitions even at 2100g flying weight on my Prestige 2PK (empty weight 1250g).

So I bought 2pcs of the brother 2220/12 long and upped the power to 4 cells after some messages from the producer this was possible (30A continious and 35A short term no issues). The reason for 2 was to use it over the limit and possibly burn it. It has not yet burned though it has been warm (upwards of 60A/30sec) Results have been good but also not so good deppending on propellers. So I ordered a lot of different propellers from different producers and also got my hands on some new smaller GM props (Georgi Mirov) <a href="https://www.gmpropellers.com/">https://www.gmpropellers.com/</a> he sent me for free. Result after many props is that this is a very nice and cheap alternative to a geared motor. No gear to break, 4 cells means temoerature of battery is not so important and the props are smaller = less drag.

Then a second motor came in that was interresting. Ivan Horejsi from <a href="https://horejsi.cz/">https://horejsi.cz/</a> suggested sending me a Dualsky motor designed for our purpose for free.

Motor is outrunner but with case so there is no outside can turning and the motor wires out the back. Dualsky XM3040RG-9 was the cryptic name as part of a series newly developed motors from Dualsky <a href="http://www.dualsky.com/motor/67f3bf8a-9b1d-266d-41e6-8960fc50f8ee.shtml">http://www.dualsky.com/motor/67f3bf8a-9b1d-266d-41e6-8960fc50f8ee.shtml</a>

First test was fantastic so I bought 2 more in the local hobby shop to also with these try and find the limit. With this motor I could also install a temperature probe on the case and monitor it thru the telemetry.

I also bought two pieces of the new Aerobtec power sensor so I could log amperage together with the Alti altimeter, This meant I had full control of initial power and thru the full climb phase of a typical F5J start.

So what am I looking for? Well most F5J starts end up in 100-150m and you know were to start searching. But sometimes the thermals are low and strong so you need to use the 30seconds to search in low altitude for 20sec with motor on 1/3 throttle or even lower. Then if you dont find it you might want to climb 100m the last seconds. That again means you want a fast and powerful climb for 5 seconds in worst case.

Another case might be the wind speed is high and you want to reach a treeline 500m in front. You then need to fly faster than the wind forward and also climb to whatever height you feel neccesary in those 30sec. Here an outrunner (or innrunner) with small prop have an advantage as it often runs on higher rpm with the same pitch as their geared counterparts.

The motor combo also needs to perform with full ballast and it would be nice if it is so light one consider it in the lightest models were you try to save every gram. Most tests were done with 1650g windy Prestige with some tests full ballast and some speeding forward.

Looking at the results I put into an excel sheet I find extreme values both on AXI and Dualsky motor but I also want the motors to run for many seasons without service so it is always nice to take a step back. Motor efficiency also goes down when using a "too big prop" so sometimes it is no point in going bigger prop just for a few % better performance.

As a results of all this testing (>100 logs with many of the multiple climbs. many for double testing) I am happy to say both AXI2220/12 long and the Dualsky XM3040EG-9 perform well for F5J flying as I see it.

The Dualsky XM3040EG-9 have really performed the extra mile as it has never been above 34Celcius temperature on the outside and performs above 15m/s climb if you want.

All tests have been double checked with 30sec first climb and then extra climb(s) on same battery so that any heat build up will show and simulate summer conditions/worst case.

I am still waiting for some new propellers and spinners (VM and GM) to tweak and also to get the best aerodynamic nose. Flying F5J means flying a lot slow and also a lot sideways (sideslip) in the wind. So drag is important. More on that later.

So for propeller I am now currently "in love" with the new GM small series. Very little sound and it seems to outperform what I had available of props.

## Gear:

• Plane is Samba Model, Prestige 2PK windy designed by Philip Kolb (1650g with F3J tips). 32mm nose cone (new 30mm nose just barely fits the Dualsky but needs sanding or cutting to 32mm)

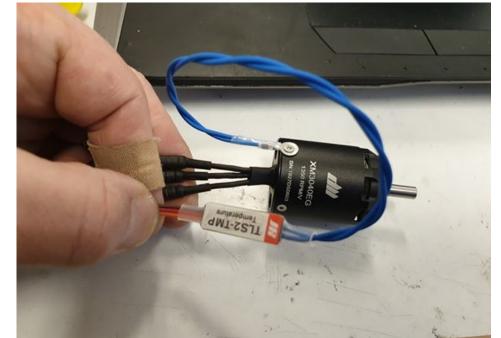
- Battery: mostly Turnigy 4s650 75C and 3STattu R-line 4s850 95C
- Controller DYS40 mediumhigh timing for outrunners and Tenshock/Castle/Dualsky on geared motors
- BEC CC10A used for the DYS40
- Altimeter/powerlog Aerobtec nano and powersensor. For range test the Aerobtec GPS was used as extra logger.
- As a backup I read and log also most data on a Unisense-E from SM-modelbau
- Tx and telemetry JR XG11

All results from my excel sheet here (pdf) <a href="http://www.jojoen.no/div/2020testingmotor.pdf">http://www.jojoen.no/div/2020testingmotor.pdf</a>

Edit and disclaimer: to all of you following.. i am doing all these tests to find something that works for me in any condition with any weight in my models. Dont expect the exact results if you change something. An example of this is todays GM11x6 that uses around 50A on this Dualsky setup. But i also see that warmer battery makes higher amps. A bigger battery with same C will outperform the battery i use and that means you will draw even more and "might" be too much for the motor. A second climb almost always gives better climb because of heated battery. So I have tried to discard those but oftem perform them to check. I also might need to go thru the logs again to recheck. There might be things that went wrong (example one bad battery of the 12-15pcs I have)

That is why my favourite is not the propeller that gives highest climb. It should also fit fuse for less drag and be a good setup in both cold and warm weather (warmer/colder batteries). And i want the setup to last many seasons.

These test have been performed without any sponsorship. I have had one motor and some props sent to me but I have bought most of it with own money. Though the testing have sparked producers sending me stuff i try to not get influenced in the testing.

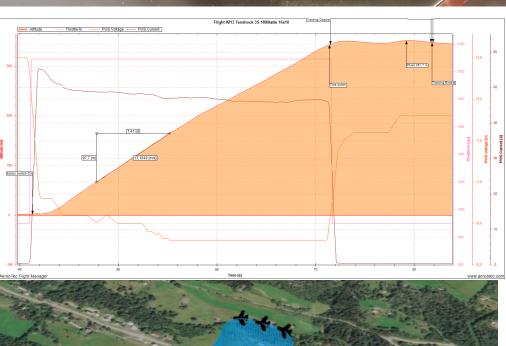


Jo Grini











	Weight model		Weight		Prop				Sec. to 200m			-	-	-		Weight mode2	
282 283	2 400g 2 400g	Dualsky XM3045-EG12 Dualsky XM3045-EG12	120g 120g	820 6s 1100CNHL 820 6s 1100CNHL	GM 10x6C.L	39 39	33 35	30 34	13 15	435 377	15 13	C° 0	<30 <30	C° 20 C° 20	450 450	2 400g 2 400g	11 11
15	2 400g	Dualsky XM3045-EG12	120g	820 6s 1100CNHL		55	49	42	11	551	19	C° 0	50	C° 20	450	2 400g	14
155	2 400g	Dualsky XM3045-EG12	120g	820 6s 1100CNHL	11x8 GM	57	50	44	11	522	18	-C° 10	50	C° 20	450	2 400g	14
156	2 400g	Dualsky XM3045-EG12	120g	820 6s 1100CNHL 820 6s 1100CNHL		57	53	45	13	464	16	-C° 10	60	C° 15	450	2 400g	16
287 152	1 500g 1 500g	Dualsky XM3045-EG12 Dualsky XM3045-EG12	120g 120g	820 6s 1100CNHL 820 6s 1100CNHL		33 48	30 39	25 33	13 10	435 580	15 20	C° 0 -C° 5	<30 50	C° 20 C° 20	450 450	1 500g 1 500g	16 21
286	1 500g	Dualsky XM3045-EG12	120g	820 6s 1100CNHL		52	44	42	10	609	21	C° 0	50	C° 20	450	1 500g	24
290	1 500g	Dualsky XM3045-EG12	120g	820 6s 1100CNHL	11x8 GM	54	44	42	10	609	21	C° 0	50	C° 20	450	1 500g	20
13	2 400g	Dualsky XM3045-EG12	120g	820 4s 900	12x10 GM	44	37	18	18	319	11	C° 2		C° 20	450	2 400g	4
151	1450g	Dualsky XM3045-EG12	120g	820 4s 900	11x6 GM	29	24	18	20	290	10	-C° 5	<30	C° 20	450	1 450g	7
159	1450g	Dualsky XM3045-EG12 Dualsky XM3045-EG12	120g	820 4s 900 820 4s 900	11x7 CCM	28	26 32	23	17 15	348 377	12	-C° 10	<30	C° 15	450 450	1 450g 1 450g	7 9
158 14	1450g 2200g	Dualsky XM3045-EG12	120g 120g	820 4s 900 820 4s 900	11x8 GM 14x10 GM CL	35 47	32 41	30 18	17	348	13 12	-C° 10 C° 2	<30	C° 15 C° 20	450	2 200g	10
157	2 400g	Dualsky XM3045-EG12	120g	820 4s 900	11x8 GM	37	33	29	22	261	9	-C° 10	<30	C° 15	450	2 400g	5
161	1450g	Dualsky XM3045-EG12	120g	820 4s 900	12x8 CCM	42	36	31	12	493	17	-C° 12	<30	C° 20	450	1 450g	11
308 163	1450g 1450g	Dualsky XM3045-EG12 Dualsky XM3045-EG12	120g 120g	820 4s 900 820 4s 900	12x8 VM 13x8 GM	45 48	37 42	34 36	12 13	493 435	17 15	-C° 5 -C° 12	<30 <30	C° 20 C° 15	450 450	1 450g 1 450g	12
162	1450g	Dualsky XM3045-EG12	120g	820 4s 900	13x9 CCM	52	46	38	13	464	16	-C° 12	45	C° 15	450	1 450g	14
				101 5 11			all I										
258	Weight model 1 500g	Motor Xpower 2926/8 windy	Weight 102g	1380 4s 900	Prop 11x7 CCM	60	59	58	12	493	Max climb m/s	C° 10	HOT	C° 20	450	Weight mode2	14
260	1 500g	Xpower 2926/8 windy	102g	1380 3s 850 95C	11x7 CCM	52	44	42	15	377	13	C° 10	<30	C° 21	450	1500	10
263	1 500g	Xpower 2926/8 windy	102g		12x8 CCM	59	49	48	18	319	11	C° 10	50	C° 22	450	1500	7
267	1 500g	Xpower 2926/8 windy	102g	1380 4s 900	12x8 CCM	70	58		14	406	14		Too hot	l	450	1500	12
242	1 500g	Dualsky XM3045-EG8	120g	1250 3s 850 95C	11x7 CCM	55	42	39	13	464	16	C° 10	<30	C° 24	450	1500	8
243	1 500g	Dualsky XM3045-EG8		1250 4s 900	11x7 CCM	60	57	54	15	377	13	C° 10	<30	C° 25	450	1500	20
257 258	1 500g 1 500g	Dualsky XM3045-EG8 Dualsky XM3045-EG8	120g 120g	1250 4s 900 Dualsky 1250 4s 900 pro	12x8 VM 12x8 CCM	101 97	75 76		10 8	609 725	21 25	C° 15 C° 15	50 50	C° 30	450 450	1500 1500	31 25
230	1 3006	,	1208	222 % 300 pio	COV				-	, 23	23	2 23	50	5 50		1505	13
253	1 550g	Tenshock 1510A02	107		12x8CCM	44	39	33	10,0	580,0	20	C° 14	50	C° 25	450	1550	28
245 246	1 500g 1 500g	Tenshock 1510A02 Tenshock 1510A02	107 107		11x7CCM 12x8CCM	29 41	28 33	24	13,3 11,1	435,0 522,0	15,0 18,0	C° 14 C° 14	<30 50	C° 25 C° 25	450 450	1500 1500	14 15
246	1 500g 1 500g	Tenshock 1510A02		3550 6s R-line 850		46	39	34	10,5	551,0	19,0	C° 14	Hot	C° 25	450	1500	18
250	1 500g	Tenshock 1510A02	107			29	25	20	16,7	348,0	12,0	C° 14	<30	C° 25	450	1500	7
252	1 500g	Tenshock 1510A02	107	3550 6s Tattu 650	12x8CCM	30	27-23	25	sagging batt		14-12 batt	C° 14	<30	C° 25	450	1500	8
		Dualsky															
Test	Weight model		Weight		Prop						: Max climb m/s					Weight mode2	
487 167	1450g GPS 2780	Dualsky XM3045EG-8 Dualsky XM3045EG-8	120g 120g	1250 3s Turnigy 650 1250 3s 1800 tattu	12x6 CN 10x6 GM	58 39	55 34	51	12 33	360 180	12 6	20 15	<30 50	C° 25 C° 15	450 450	1450 GPS 2780	8 5
242	1 650g	Dualsky XM3045-EG8		1250 3s 850 95C	11x7 CCM	55	42	39	13	464	16	C° 10	<30	24	450	1650	7
163	2 200g	Dualsky XM3045EG-8	120g			59	58	57	13	465	15,5	20	45	C° 25	450	2200	12
164 488	2 200g 1 350g	Dualsky XM3045EG-8 Dualsky XM3045EG-8	120g 120g	1250 4S Dualsky 120 1250 4S Turnigy 650		59 61	57 59	56 56	14 12	420 510	14 17	20 20	<30 45	C° 25 C° 25	450 450	2200 1350	13 17
490	1 350g	Dualsky XM3045EG-8	120g			59	57	54	13	465	15,5	20	<30	C° 25	450	1350	13
491	1 350g	Dualsky XM3045EG-8		1250 4S Dualsky 60		59	57	51	13	450	15	20	<30	C° 25	450	1350	18
493 162	3 000g F3B 2200	Dualsky XM3045EG-8 Dualsky XM3045EG-8	120g 120g	1250 4S Dualsky 120 1250 4S Dualsky 120		59 59	55 58	51 54	17	345	11,4 12	23 20	45 55	C° 25 C° 20	500 700	3000 F3B 2200	8
504	F3B 3050	Dualsky XM3045EG-8	120g			68	57	55			11	20	55	C° 20	450	F3B 3050	8
497	F3B 3050	Dualsky XM3045EG-8		1250 4S Dualsky 120		80	64				13	20	60	C° 20	450	F3B 3050	13
243 267	1650 1550	Dualsky XM3045-EG8 Dualsky XM3045-EG8	120g	1250 4s 900 1250 6s 1100 CNHL	11x7 CCM 9x6 GM	60 90	57 76-66	54	15 10	377 609	13 21	C° 10 C° 15	<30 50	25 C° 20	450 450	1650 1550	20 24
268	1500	Dualsky XM3045-EG8		1250 3s 1700 R-line	9x6 GM	50	32	•	25	232	8	C° 15	<30	C° 20	450	1500	7
260	1550	Dualsky XM3045-EG8	120g		9x5 GM	83	58	53	8	754	26	C° 15	40	C° 20	450	1550	23
270	1500	Dualsky XM3045-EG8	120g	1250 4s 900pro	11x8 GM	90	61	54	10	580	20	C° 15	40	C° 30	450	1500	26
	Weight model												T				
409 27			Weight		Prop				Sec. to 200m				remp moto			Weight mode2	
21	1 450g	Dualsky XM3040EG-9	104g	1350 3s 850 95C	11x8 CN	64	52	Straight amp 52	15	392	13,5	C° 10	remp moto	C° 25	450	1450	13
412			104g 104g			64 48							remp moto				
412 248	1 450g 1 650g	Dualsky XM3040EG-9 Dualsky XM3040EG-9	104g 104g 104g	1350 3s 850 95C 1350 3S R-line 850	11x8 CN 12x8 GM	64 48 56	52 43	52	15 <b>15,0</b>	392 <b>377,0</b>	13,5 13,5 13,0 12,5	C° 10 C° 2 C° 10 C° 0	<30	C° 25 30 C° 25 25	450 340	1450 1650 1450 1650	13 12
248 275	1 450g 1 650g 1 450g 1 650g 1 650g	Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9	104g 104g 104g 104g 104g	1350 3s 850 95C 1350 3s R-line 850 1350 3s 850 95C 1350 3s R-line 850 1350 3s R-line 850	11x8 CN 12x8 GM 12x6 CN 12x8 GM 12x8 VM	64 48 56	52 43 45	52	15 15,0 15 16,0 17,0	392 377,0 377 390,0 360,0	13,5 13,5 13,0 12,5 12,2	C° 10 C° 2 C° 10 C° 0 C° 8	<30 <30	C° 25 30 C° 25 25 25	450 340 450 340 400	1450 1650 1450 1650	13 12 10 8 13
248	1 450g 1 650g 1 450g 1 650g	Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9	104g 104g 104g 104g 104g 104g	1350 3s 850 95C 1350 3S R-line 850 1350 3s 850 95C 1350 3S R-line 850	11x8 CN 12x8 GM 12x6 CN 12x8 GM	64 48 56	52 43	52	15 15,0 15 16,0	392 377,0 377 390,0	13,5 13,5 13,0 12,5	C° 10 C° 2 C° 10 C° 0	<30	C° 25 30 C° 25 25	450 340 450 340	1450 1650 1450 1650	13 12 10 8
248 275 275 243 33	1 450g 1 650g 1 450g 1 650g 1 650g 1 650g 1 650g 1 650g	Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9	104g 104g 104g 104g 104g 104g 104g 104g	1350 3s 850 95C 1350 3S R-line 850 1350 3s 850 95C 1350 3S R-line 850 1350 3S R-line 850 1350 3S R-line 850 1350 3S R-line 850 1350 3S tattu 1800	11x8 CN 12x8 GM 12x6 CN 12x8 GM 12x8 VM 11x7 VM 11x6 GM 11x5 GM	64 48 56 64 45 46	52 43 45 45 42 37 38	52	15 15,0 15 16,0 17,0 18,0 19,0	392 377,0 377 390,0 360,0 350,0 305,0 304,0	13,5 13,5 13,0 12,5 12,2 11,5 10,5	C° 10 C° 2 C° 10 C° 0 C° 8 C° 8 C° 5 C° 0	<30 <30 <30	C° 25 30 C° 25 25 25 25 25 25 25	450 340 450 340 400 400 340 340	1450 1650 1450 1650 1650 1650 1650	13 12 10 8 13 12 10 8
248 275 275 243 33 26	1 450g 1 650g 1 450g 1 650g 1 650g 1 650g 1 650g 1 650g 1 650g	Dualsky XM3040EG-9	104g 104g 104g 104g 104g 104g 104g 104g	1350 3s 850 95C 1350 3S R-line 850 1350 3s 850 95C 1350 3S R-line 850 1350 3S R-line 850 1350 3S R-line 850 1350 3S R-line 850 1350 3S R-line 850	11x8 CN 12x8 GM 12x6 CN 12x8 GM 12x8 VM 11x7 VM 11x6 GM 11x5 GM 12x8 GM	64 48 56 64 45 46 45	52 43 45 42 37 38 40	52 45	15 15,0 15 16,0 17,0 18,0 19,0 19,0 22,0	392 377,0 377 390,0 360,0 350,0 305,0 304,0 261,0	13,5 13,5 13,0 12,5 12,2 11,5 10,5 10,5 9,5	C° 10 C° 2 C° 10 C° 0 C° 8 C° 8 C° 5 C° 0	<30 <30 <30 <30	C° 25 30 C° 25 25 25 25 25 25 25 5	450 340 450 340 400 400 340 340 340	1450 1650 1450 1650 1650 1650 1650 1650	13 12 10 8 13 12 10 8 8
248 275 275 243 33	1 450g 1 650g 1 450g 1 650g 1 650g 1 650g 1 650g 1 650g	Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9	104g 104g 104g 104g 104g 104g 104g 104g	1350 3s 850 95C 1350 3s R-line 850 1350 3s 850 95C 1350 3s R-line 850 1350 3s R-line 850	11x8 CN 12x8 GM 12x6 CN 12x8 GM 12x8 VM 11x7 VM 11x6 GM 11x5 GM 12x8 GM	64 48 56 64 45 46 45 41	52 43 45 45 42 37 38	52 45	15 15,0 15 16,0 17,0 18,0 19,0	392 377,0 377 390,0 360,0 350,0 305,0 304,0	13,5 13,5 13,0 12,5 12,2 11,5 10,5	C° 10 C° 2 C° 10 C° 0 C° 8 C° 8 C° 5 C° 0	<30 <30 <30 <30	C° 25 30 C° 25 25 25 25 25 25 25	450 340 450 340 400 400 340 340	1450 1650 1450 1650 1650 1650 1650	13 12 10 8 13 12 10 8
248 275 275 243 33 26 452 244 450	1 450g 1 650g 1 450g 1 650g 1 650g 1 650g 1 650g 1 650g 1 650g 1 650g 1 500g	Dualsky XM3040EG-9 Dualsky XM3040EG-9	104g 104g 104g 104g 104g 104g 104g 104g	1350 3s 850 95C 1350 3s R-line 850 1350 3s R-line 850	11x8 CN 12x8 GM 12x6 CN 12x8 GM 12x8 VM 11x7 VM 11x6 GM 12x8 GM 12x8 GM 10x6 GM 11x6 CAM 12x6 CN	64 48 56 64 45 46 45 41 48 47	52 43 45 42 37 38 40 36	52 45 30 28	15 15,0 15 16,0 17,0 18,0 19,0 19,0 22,0 21 23,0 22	392 377,0 377 390,0 360,0 350,0 305,0 304,0 261,0 276 250,0 261	13,5 13,5 13,0 12,5 12,2 11,5 10,5 10,5 9,5 9,0 9,0	C° 10 C° 2 C° 10 C° 0 C° 8 C° 8 C° 5 C° 0 C° 2 C° 10 C° 5 C° 10	<30 <30 <30 <30 <30 <30	C° 25  30  C° 25  25  25  25  25  5  C° 25  2  C° 25  C° 25	450 340 450 340 400 400 340 340 340 500 340 500	1450 1650 1450 1650 1650 1650 1650 1650 1500 1650	13 12 10 8 13 12 10 8 8 8 8 8
248 275 275 243 33 26 452 244	1 450g 1 650g 1 450g 1 650g 1 650g 1 650g 1 650g 1 650g 1 650g 1 650g 1 650g	Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9 Dualsky XM3040EG-9	104g 104g 104g 104g 104g 104g 104g 104g	1350 3s 850 95C 1350 3s R-line 850 1350 3s 850 95C 1350 3s R-line 850 1350 3s R-line 850	11x8 CN 12x8 GM 12x6 CN 12x8 GM 12x8 VM 11x7 VM 11x6 GM 12x8 GM 12x8 GM 10x6 GM 11x6 CAM	64 48 56 64 45 46 45 41 48 47	52 43 45 42 37 38 40 36 38	52 45 30 28 35	15 15,0 15 16,0 17,0 18,0 19,0 19,0 22,0 21 23,0	392 377,0 377 390,0 360,0 350,0 305,0 304,0 261,0 276 250,0	13,5 13,5 13,0 12,5 12,2 11,5 10,5 10,5 9,5 9,5 9,0	C° 10 C° 2 C° 10 C° 0 C° 8 C° 8 C° 5 C° 0 C° 2 C° 10 C° 5	<30 <30 <30 <30 <30	C° 25 30 C° 25 25 25 25 25 25 25 C° 25 25 25	450 340 450 340 400 400 340 340 340 500 340	1450 1650 1450 1650 1650 1650 1650 1650 1650 1500	13 12 10 8 13 12 10 8 8 8 8
248 275 275 243 33 26 452 244 450	1 450g 1 650g 1 450g 1 650g 1 650g 1 650g 1 650g 1 650g 1 650g 1 650g 1 500g	Dualsky XM3040EG-9 Dualsky XM3040EG-9	104g 104g 104g 104g 104g 104g 104g 104g	1350 3s 850 95C 1350 3s R-line 850 1350 3s R-line 850	11x8 CN 12x8 GM 12x6 CN 12x8 GM 12x8 VM 11x7 VM 11x6 GM 12x8 GM 12x8 GM 10x6 GM 12x6 CM	64 48 56 64 45 46 45 41 48 47	52 43 45 42 37 38 40 36 38	52 45 30 28 35	15 15,0 15 16,0 17,0 18,0 19,0 19,0 22,0 21 23,0 22	392 377,0 377 390,0 360,0 350,0 305,0 304,0 261,0 276 250,0 261	13,5 13,5 13,0 12,5 12,2 11,5 10,5 10,5 9,5 9,0 9,0	C° 10 C° 2 C° 10 C° 0 C° 8 C° 8 C° 5 C° 0 C° 2 C° 10 C° 5 C° 10	<30 <30 <30 <30 <30 <30	C° 25  30  C° 25  25  25  25  25  5  C° 25  2  C° 25  C° 25	450 340 450 340 400 400 340 340 340 500 340 500	1450 1650 1450 1650 1650 1650 1650 1650 1500 1650	13 12 10 8 13 12 10 8 8 8 8 9
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248 275 275 243 33 26 452 244 450 247 410 451 430 451 430 441 431 432 425 234/2 234/2 234/2 234/2 234/2 244 454 454 454 454 454 454 454 454 45	1 450g 1 650g 1 500g 1 500g 1 450g 1 500g 1 450g 1 500g 1 650g 1 650g 1 650g 1 650g 1 650g 1 650g	Dualsky XM3040EG-9	104g 4104g 104g 104g 104g 104g 104g 104g	1350 3 S. R-line 850 1350 4 S. Turnigy 650	11x8 CN 12x8 GM 12x8 GM 12x8 GM 11x7 VM 11x5 GM 11x6 GM 11x6 GM 12x8 GM 11x8 GM 11x8 GM 11x8 GM 12x8 GM 11x8 GM 11x8 GM 11x6 GM	64 48 56 64 45 41 42 47 100 59 62 54 62 55 65 65 65 65 65 65 65 65 65	52 43 45 42 37 38 40 36 38 40 62 54 51 48 57 45 48 52 52 53 40,0 49 49 48 46 40 50 50 50 50 50 50 50 50 50 50 50 50 50	52 45 30 28 35 35 35 43 44	15 15,0 15 16,0 17,0 18,0 19,0 19,0 19,0 22,0 21 23,0 22,2 25,0 10 10 10 11 11,1 12,0 12,1 12,0 13,0 13,0 13,0 13,0 14,0 14,0 14,0 15,0 15,0 15,0 15,0 15,0 15,0 15,0 15,0 16,0 17,0 18,0 18,0 19,0 19,0 19,0 19,0 10,0 10,0 11,0 11,0 11,0 11,0 12,0 12,0 13,0 14,0 14,0 15	392 377,0 377,0 360,0 360,0 305,0 305,0 261,0 276 250,0 261 230,0 566 566 566 537 Too much? 493 493 493	13,5 13,5 13,0 12,5 12,2 11,5 10,5 10,5 9,5 9,0 9,0 8,0 19,5 19,5 19,5 19,5 19,5 18,5 17,0 17,0 17,0 17,0 17,0 17,0 17,0 14,0 13,7 13,5 13,5 13,0 13,0 13,0 12,8	C 10 C 2 C 10 C 10 C 10 C 10 C 10 C 10 C	<30 <30 <30 <30 <30 <30 <30 <30 <30 <30	C* 25 30 C* 25 25 25 25 25 25 25 25 25 25 25 25 25 2	450 340 450 340 450 340 400 340 340 340 340 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 450 500 340 340 340 340	1450 1650 1650 1650 1650 1650 1650 1650 16	13 12 10 8 8 13 12 10 8 8 8 8 9 8 18 22 11 15 19 17 20 16 16 20 15 8 16
248 275 275 243 33 32 6 452 244 450 247 410 451 430 453 47 413 428 425 238 273 454 244 450 247 410 451 450 451 451 452 452 452 452 452 452 452 452 452 452	1 450g 1 650g	Dualsky XM3040EG-9	104g 4 104g 104g 104g 104g 104g 104g 104	1350 3 S. R-line 850 1350 4 S. Turnigy 650	11x8 CN 12x8 GM 12x8 GM 12x8 GM 12x8 GM 11x7 VM 11x5 GM 11x5 GM 11x5 GM 11x6 G	64 48 56 64 45 46 47 100 59 62 54 72 55 65 74 60 58 65 65 65 65 65 65 65 65 65 65 65 65 65	52 43 45 42 37 38 40 36 38 40 62 62 54 51 48 57 45 48 52 52 53 53 53 40,0 49 49 49 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	52 45 30 28 35 35 51 43 44 44	15 15,0 15 16,0 17,0 18,0 19,0 19,0 19,0 22,0 21 23,0 22 25,0 10 10 10 10 11 11 12,0 12 12 12,0 13,0 13,0 13,0 14,0 14,0 14,0 15,0 16,0 17,0 17,0 18,0 18,0 18,0 18,0 18,0 18,0 18,0 18,0 18,0 18,0 18,0 18,0 19,0 19,0 10,0	392 377,0 377 390,0 360,0 305,0 305,0 304,0 261,0 276 250,0 566 566 566 566 566 566 566 537 7 Too much? 493 493 493	13,5 13,5 13,0 12,5 12,2 11,5 10,5 10,5 9,5 9,0 8,0 19,5 19,5 19,5 19,5 18,5 17,0 17,0 17,0 17,0 17,0 16,5 15,5 15,5 15,5 15,5 14,5 14,0 14,0 13,7 13,5 13,0 13,0 13,0 12,8 12,6	C 10 C 20 C 10 C 20 C 8 C 5 C 0 C 10	<30 <30 <30 <30 <30 <30 <30 <30 <30 <30	C* 25 30 C* 25 25 25 25 25 25 25 25 25 25 25 25 25 2	450 340 450 340 400 400 400 340 340 500 340 500 340 500 500 500 500 340 450 500 500 500 340 340 340 340 340 340	1450 1650 1650 1650 1650 1650 1650 1650 16	13 12 10 8 8 13 12 10 8 8 8 8 9 8 18 22 11 15 19 17 20 16 16 20 15 8 16
248 275 275 243 33 32 6 452 244 450 247 410 451 430 453 47 413 428 425 238 273 454 244 450 247 410 451 450 451 451 452 452 452 452 452 452 452 452 452 452	1 450g 1 650g 1 500g 1 500g 1 450g 1 500g 1 450g 1 500g 1 650g 1 650g 1 650g 1 650g 1 650g 1 650g	Dualsky XM3040EG-9	104g 4 104g 104g 104g 104g 104g 104g 104	1350 3 S. R-line 850 1350 4 S. Turnigy 650	11x8 CN 12x8 GM 12x8 GM 12x8 GM 11x7 VM 11x5 GM 12x8 GM 12x6 GM 12x6 GM 12x6 GM 12x6 GM 12x6 GM 12x6 GM 11x6 GM	64 48 56 64 45 41 48 47 100 59 62 54 72 50 55 65 65 65 65 65 65 65 65 65 65 65 65	52 43 45 42 37 38 40 36 38 40 62 54 51 48 57 45 48 52 52 53 40,0 49 49 48 46 40 50 50 50 50 50 50 50 50 50 50 50 50 50	52 45 30 28 35 35 35 43 44	15 15,0 15 16,0 17,0 18,0 19,0 19,0 19,0 22,0 21 23,0 22,2 25,0 10 10 10 11 11,1 12,0 12,1 12,0 13,0 13,0 13,0 13,0 14,0 14,0 14,0 15,0 15,0 15,0 15,0 15,0 15,0 15,0 15,0 16,0 17,0 18,0 18,0 19,0 19,0 19,0 19,0 10,0 10,0 11,0 11,0 11,0 11,0 12,0 12,0 13,0 14,0 14,0 15	392 377,0 377,0 360,0 360,0 305,0 305,0 261,0 276 250,0 261 230,0 566 566 566 537 Too much? 493 493 493	13,5 13,5 13,0 12,5 12,2 11,5 10,5 10,5 9,5 9,0 9,0 8,0 19,5 19,5 19,5 19,5 19,5 18,5 17,0 17,0 17,0 17,0 17,0 17,0 17,0 14,0 13,7 13,5 13,5 13,0 13,0 13,0 12,8	C 10 C 2 C 10 C 10 C 10 C 10 C 10 C 10 C	<30 <30 <30 <30 <30 <30 <30 <30 <30 <30	C* 25 30 C* 25 25 25 25 25 25 25 25 25 25 25 25 25 2	450 340 450 340 400 400 400 340 340 500 340 500 340 500 500 500 500 340 450 500 500 500 340 340 340 340 340 340	1450 1650 1650 1650 1650 1650 1650 1650 16	13 12 10 8 8 13 12 10 8 8 8 8 9 8 18 22 11 15 19 17 20 16 16 20 15 8 16
248 275 275 243 33 26 452 244 410 451 430 451 430 453 347 425 234/2 234/2 235 246 45 237 229	1 450g 1 650g	Dualsky XM3040EG-9	104g 4 104g 104g 104g 104g 104g 104g 104	1350 3 S. R-line 850 1350 4 S. Turnigy 650	11x8 CN 12x8 GM 12x8 GM 12x8 GM 12x8 GM 11x7 VM 11x5 GM 11x5 GM 11x5 GM 11x6 G	64 48 56 64 45 46 47 100 59 62 54 72 55 65 74 60 58 65 65 65 65 65 65 65 65 65 65 65 65 65	52 43 45 42 37 38 40 36 38 40 62 62 54 51 48 57 45 48 52 52 53 53 53 40,0 49 49 49 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	52 45 30 28 35 35 51 43 44 44	15 15,0 15 16,0 17,0 18,0 19,0 19,0 19,0 22,0 21 23,0 22 25,0 10 10 10 10 11 11 12,0 12 12 12 12,0 13,0 13,0 13,0 14,0 14,0 15,0 16,0 17,0 17,0 17,0 17,0 17,0 18	392 377,0 377 390,0 360,0 305,0 304,0 261,0 276 250,0 261 230,0 566 566 566 566 566 566 566 537 7 Too much? 493 493 493	13,5 13,5 13,0 12,5 12,2 11,5 10,5 9,5 9,5 9,0 8,0 19,5 19,5 19,5 19,5 18,5 17,0 17,0 17,0 17,0 17,0 16,5 15,5 15,5 15,5 15,5 15,2 14,5 14,0 14,0 13,7 13,5 13,5 13,0 13,0 12,8 12,6 12,6 12,6 12,6	C 10 C 20 C 8 C 8 C 8 C 5 C 0 C 10	<30 <30 <30 <30 <30 <30 <30 <30 <30 <30	C* 25 30 C* 25 25 25 25 25 25 25 25 25 25 25 25 25 2	450 340 450 340 450 340 400 340 340 340 340 500 340 450 500 340 450 500 500 340 450 500 340 450 500 340 450 500 340 450 500 500 340 450 500 500 500 500 500 500 500 500 5	1450 1650 1650 1650 1650 1650 1650 1650 16	13 12 10 8 8 13 12 10 8 8 8 8 9 8 18 22 18 20 21 11 15 19 17 20 16 16 20 15 8 16
248 275 275 243 33 26 452 244 450 247 410 451 430 453 47 428 425 238 273 454 244 450 245 47 47 410 451 430 451 451 452 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	1 450g 1 650g	Dualsky XM3040EG-9	104g 4 104g 104g 104g 104g 104g 104g 104	1350 3 S. R-line 850 1350 4 S. Turnigy 650	11x8 CN 12x8 GM 12x8 GM 12x8 GM 11x7 VM 11x5 GM 12x8 GM 12x6 CN 10x6 GM 12x6 CN 10x6 GM C.L 11x8 GM 12x6 CN 11x6 GM C.L 11x6 GM 11x6 GM C.L 11x6 GM 11x6 GM C.L 11x6 GM 11	64 48 56 64 45 41 41 48 47 100 59 62 54 65 65 65 65 65 65 65 65 65 65 65 65 65	52 43 45 42 37 38 40 36 38 40 62 54 51 48 57 45 48 52 52 53 40,0 49 49 49 49 49 48 46 40 50 50 50 50 50 50 50 50 50 50 50 50 50	52 45 30 28 35 35 51 43 44 44	15 15,0 15 16,6 17,0 18,0 19,0 19,0 19,0 22,0 21 23,0 22 25,0 10 10 10 10 11 11 12,0 12,1 12,0 13,0 13,0 14,0 14,0 17,0 15,0 16,0 15,0 16,0 16,0 17,0 18,0 18,0 18,0 19,0 19,0 10,0 10,0 10,0 11,0 11,0 11,0 11,0 12,0 13,0 14,0 14,0 15,0 16	392 377,0 377,0 390,0 360,0 360,0 305,0 261,0 276 250,0 261 230,0 566 566 566 566 566 566 566 537 7 Too much? 493 493 493	13,5 13,5 13,5 13,0 12,5 12,2 11,5 10,5 10,5 9,5 9,0 9,0 8,0 19,5 19,5 19,5 19,5 19,5 19,5 18,5 17,0 17,0 17,0 17,0 17,0 17,0 17,0 17,0	C 10 C 2 C 10 C 10 C 10 C 10 C 10 C 10 C	<30 <30 <30 <30 <30 <30 <30 <30 <30 <30	C* 25 30 C* 25 25 25 25 25 25 25 25 25 25 25 25 25 2	450 340 450 340 450 340 400 400 340 500 340 500 340 500 340 500 500 340 450 500 500 340 450 500 500 340 450 500 500 500 340 450 500 500 500 500 500 340 450 500 500 500 500 500 500 340 340 500 500 500 340 340 340 500 500 500 500 340	1450 1650 1650 1650 1650 1650 1650 1650 16	13 12 10 8 8 13 12 10 8 8 8 8 9 8 18 22 11 15 19 17 20 16 16 20 15 8 16
248 275 275 243 33 26 452 244 410 451 430 451 430 453 347 425 234/2 234/2 235 246 45 237 229	1 450g 1 650g	Dualsky XM3040EG-9	104g 4 104g 104g 104g 104g 104g 104g 104	1350 3 S. R-line 850 1350 4 S. Turnigy 650	11x8 CN 12x8 GM 12x8 GM 12x8 GM 12x8 GM 11x7 VM 11x5 GM 11x5 GM 11x5 GM 11x6 G	64 48 56 64 45 41 48 47 100 59 62 54 62 50 55 65 65 74 60 58 65 65 65 65 65 65 65 65 65 65 65 65 65	52 43 45 42 37 38 40 36 38 40 62 62 54 51 48 57 45 48 52 52 53 53 53 40,0 49 49 49 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	52 45 30 28 35 35 51 43 44 44	15 15,0 15 16,0 17,0 18,0 19,0 19,0 19,0 22,0 21 23,0 22 25,0 10 10 10 10 11 11 12,0 12 12 12 12,0 13,0 13,0 13,0 14,0 14,0 15,0 16,0 17,0 17,0 17,0 17,0 17,0 18	392 377,0 377 390,0 360,0 305,0 304,0 261,0 276 250,0 261 230,0 566 566 566 566 566 566 566 537 7 Too much? 493 493 493	13,5 13,5 13,0 12,5 12,2 11,5 10,5 9,5 9,5 9,0 8,0 19,5 19,5 19,5 19,5 18,5 17,0 17,0 17,0 17,0 17,0 16,5 15,5 15,5 15,5 15,5 15,2 14,5 14,0 14,0 13,7 13,5 13,5 13,0 13,0 12,8 12,6 12,6 12,6 12,6	C 10 C 20 C 8 C 8 C 8 C 5 C 0 C 10	<30 <30 <30 <30 <30 <30 <30 <30 <30 <30	C* 25 30 C* 25 25 25 25 25 25 25 25 25 25 25 25 25 2	450 340 450 340 450 340 400 340 340 340 340 500 340 450 500 340 450 500 500 340 450 500 340 450 500 340 450 500 340 450 500 500 340 450 500 500 500 500 500 500 500 500 5	1450 1650 1650 1650 1650 1650 1650 1650 16	13 12 10 8 8 13 12 10 8 8 8 8 9 8 18 22 18 20 21 11 15 19 17 20 16 16 20 15 8 16

233	1 650g	Dualsky XM3040EG-9		1350 4S Turnigy 650	9x6 GN		37	36	17,0	355,0	12,0	-C° 4	<30	25	340	1650	15
226	1 650g 1 650g	Dualsky XM3040EG-9 Dualsky XM3040EG-9	-	1350 4s Hyperion 1350 4S Turnigy 650	10x6 CAN 9x6 VITA		39 41	40	21,0	320,0	11,8 11,5	C° 5 C° 10	<30 <30C	25 20	350	1650 1650	
	1 650g	Dualsky XM3040EG-9	104g		9x6 CAN		37	40	16-19	320,0	11,5	C° 5	1500	5	100	1650	
31	1 650g	Dualsky XM3040EG-9	104g		11x5 GN	1 42	36	33	18,0	340,0	11,5	C° 0	<30	25	340	1650	15
46	1 650g	Dualsky XM3040EG-9		1350 4S Turnigy 650	10x5 GN		37		17,0	333,0	11,5	C° 6		30	340	1650	7
228	1 650g 1 650g	Dualsky XM3040EG-9 Dualsky XM3040EG-9	104g	1350 4S Turnigy 650 1350 4S Turnigy 650	9x6 CAN 9x6 VITA		37 44		18,0 22,0	295,0	10,7 9,5	C° 5 C° 2	<30	15 25	50	1650 1650	
	1 0305	Dualsky Alviso-loca-5	1046	1330 43 Turnigy 030	3X0 VIII	. 32	44		22,0	233,0	5,5	C 2		23		1030	
		Xpower															
2	Weight model 1 250g	Motor Xpower F2919/10	Weight	1480 3S R-line 850	Prop	Max amp Ci	imb amp 48	Straight amp	Sec. to 200m 15,0	Max m 30sek 377,0	Max climb m/s 13.0	Temp outs	Temp moto hot?	Temp batt A	Altitude MASL 400	Weight mod	Zoom m
3	1 250g	Xpower F2919/10	83		VM11x7	47	38		17,0	335,0	12,0	C° 5	not:	25	400	1250	12
283	1 650g	Xpower F2919/10		1480 3S R-line 850		70	48		20,0	295,0	10,3	C° 5	>50	20	450	1650	8
282	1 650g	Xpower F2919/10		1480 3S R-line 850		57	39		20,0	290,0	10,0	C° 5		20	450	1650	6
279 148_v4	1 650g 1 650g	Xpower F2919/10 Xpower F2919/10		1480 3S R-line 850 1480 3S R-line 850	GM11x6 VM11x7	61 53	35 42		22,0 22,0	275,0 261,0	9,5 9,0	C° 5 C° 2		20 25	450 400	1650 1650	7
277	1 650g	Xpower F2919/10	83		GM9x6	40	28		26,0	230,0	8,0	C° 5		20	450	1650	6
								_									
48	1 300g	Xpower F2919/10		1480 4S CNHL 1100		72	58	6sec only	Too much? Too much?	Too much?	20,0	C° 6		30	340 340	1300	25 19
50 41	1 300g 1 300g	Xpower F2919/10 Xpower F2919/10	83			78 80	60 60	6sec only 6sec only	Too much?	Too much? Too much?	19,5 19,0	C° 6		30 30	340	1300 1300	20
49	1 300g	Xpower F2919/10	83			65	56	6sec only	Too much?	Too much?	18,0	C° 6		30	340	1300	27
51	1 300g	Xpower F2919/10		1480 4S CNHL 1100		58	48		11	508	17,5	C° 6		30	340	1300	16
146_v4	1 650g	Xpower F2919/10		1480 4S Turnigy 650		64 45	50 37		17,0 20,0	353,0 295,0	12,0	C° 2 C° 2	25	25	400 400	1650 1650	12 7
139_v4 143_v4	1 650g 1 650g	Xpower F2919/10 Xpower F2919/10	83	1480 4S Turnigy 650 1480 4S Turnigy 650		38	33		21,0	275,0	10,2 9,5	C° 2	35	25 25	400	1650	8
284	1 650g	Xpower F2919/10		1480 4S Turnigy 650		40	28		23,0	260,0	9,0	C° 5		20	450	1650	6
	1 650g	Xpower F2919/10 Xpower F2919/10		1480 4S Turnigy 650		ot tested yet										1650	
	1 650g 1 650g	Xpower F2919/10 Xpower F2919/10	83 83			ot tested yet ot tested yet										1650 1650	
	1 650g	Xpower F2919/10		1480 45 Turnigy 650		ot tested yet										1650	
	4	v		4000 07 17	40.7									0			
391 395	1 500g 1 500g	Xpower 2925/8 windy Xpower 2925/8 windy		1380 3S 1300 25C 1380 3S 1300 25C	13x9 CN 11x8 CN	63	58 49	43	11 17	551 <b>348</b>	19,0 12,0	C° 10	Hot	C° 20 C° 30	450 450	1500 1500	5 12
395	1 500g 1 500g	Xpower 2925/8 windy Xpower 2925/8 windy	102g 102g		13x9 CN	65	55	retesting	17	348	12,0	C° 10	Hot	C° 25	450	1500	10
400	1 500g	Xpower 2925/8 windy	102g		12x8 GM	66	60		15	392	13,5	C° 10		C° 20	450	1500	10
403	1 500g	Xpower 2925/8 windy		1380 3s 1800	12x6 CN	58	50		16	363	12,5	C° 10		C° 20	450	1500	10
390 <b>394</b>	1 500g 1 500g	Xpower 2925/8 windy Xpower 2925/8 windy	102g	1380 3s 850 95C 1380 3s 850 95C	13x9 CN 11x8 CN	65	50	43	11 15	551 <b>377</b>	19,0 13,0	C° 10	Hot	C° 20 C° 30	450 450	1500 1500	7 13
394	1 500g	Xpower 2925/8 windy Xpower 2925/8 windy	102g 102g		13x9 CN	90	60	retesting	15	377	13,0	C° 10	Hot	C° 25	450	1500	13
398	1 500g	Xpower 2925/8 windy	102g	1380 3s 850 95C	12x6 CN	59	50		15	377	13,0	C° 10		C° 20	450	1500	11
399	1 500g	Xpower 2925/8 windy		1380 3s 850 95C	12x8 GM	65	58		17	348	12,0	C° 10		C° 20	450	1500	9
407 411	1 500g 1 450g	Xpower 2925/8 windy Xpower 2925/8 windy	102g 102g		11x6 GM 11x6 GM	50 50	42 42	40	18 18	<b>319</b> 319	11,0 11,0	C° 10 C° 10		C° 20 C° 25	450 450	1500 1450	7 9
414	1 450g	Xpower 2925/8 windy		1380 3s 850 95C	10x6 GM	44	38	35	20	290	10,0	C° 10		C° 25	450	1450	7
260	1 650g	Xpower 2926/8 windy		1380 3s 850 95C	11x7 CCM	52	44	42	15	377	13	C° 10	<30	21	450	1650	
263	1 650g	Xpower 2926/8 windy	102g	1380 3s 850 95C	12x8 CCM	59	49	48	18	319	11	C° 10	50	22	450	1650	
415	1 450g	Xpower 2925/8 windy	102σ	1380 4S Turnigy 650	10x6 GM	64	57	52	12	493	17,0	C° 10		C° 25	450	1450	17
380	1 500g	Xpower 2925/8 windy		1380 45 Turnigy 650	11x8 CN	64	55	50	12	464	16,0	C° 10		C° 25	500	1500	12
386	1 500g	Xpower 2925/8 windy	102g		13x8 GM	85	65	56	13	450	15,5	C° 10	Hot	C° 25	500	1500	13
381	1 500g	Xpower 2925/8 windy	102g		11x7 VM	58	50	50	13	435	15,0	C° 10		C° 25	500	1500	18
382 383	1 500g 1 500g	Xpower 2925/8 windy Xpower 2925/8 windy	102g 102g		11x5 GM 12x6 CN	54 64	47 55	44 50	13 13	435 435	15,0 15,0	C° 10 C° 10		C° 25 C° 25	500 500	1500 1500	12 14
384	1 500g	Xpower 2925/8 windy	102g		12x6 CN	62	52	50	13	435	15,0	C° 10		C° 25	500	1500	12
385	1 500g	Xpower 2925/8 windy		1380 4S Turnigy 650	12x8 GM	80	60	55	14	406	14,0	C° 10	Hot	C° 25	500	1500	10
258 267	1 650g	Xpower 2926/8 windy	102g	1380 4s 900 1380 4s 900	11x7 CCM	60 70	59 58	58	12 14	493 406	17 14	C° 10 C° 10	НОТ	20 20	450 450	1650 1650	
207	1 650g	Xpower 2926/8 windy	102g	1380 48 900	12x8 CCM	/0	58		14	406	14	C 10	100 not	20	450	1050	
		Tenshock															
213	Weight model	Motor Tenshock 1510A01	Weight 107		Prop	Max amp Cl	imb amp	Straight amp			Max climb m/s	C° 20	Temp moto			Weight mod	Zoom m
208	1 700g 1 700g	Tenshock 1510A01	107			50	46		15,0 18,0	377,0 348,0	13,0 12,0	C° 20		25 25	500 500	1700	12
91	1 650g	Tenshock 1510A01	107			46	39		19,0	305,0	10,5					1650	
92	1 650g	Tenshock 1510A01		4650 3S R-line 850		44	38		19,0	305,0	10,5	C° 10		20	100	1650	8
211 417	1 700g 1 450g	Tenshock 1510A01 Tenshock 1510A01		4650 3S Tattu 1800 4650 3s 850 95C	GM16x8 13x9 CN	46 35	37 34	26	20,0 20	300,0 290	10,5 10,0	C° 20 C° 10		25 C° 25	500 450	1700 1450	10 8
207	1430g	Tenshock 1510A01	107			33	34	20	21,0	164,0	9,5	C 10		C 23	450	1430	0
210	1 700g	Tenshock 1510A01	107	4650 3S Tattu 1800	GM15x8	45	38		21,0	260,0	9,0	C° 20		25	500	1700	6
422	1 450g	Tenshock 1510A01	107		11x8 CN	28	25	23	25 25	232	8,0	C° 10		C° 25	450 450	1450	5
422 434	1 450g 1 500g	Tenshock 1510A01 Tenshock 1510A01	107g 107g		11x8 CN 14x10 CN	28	25	23	25 25	232 232	8,0 8,0	C° 10 C° 10		C° 25 C° 25	450 500	1450 1500	8
419	1 450g	Tenshock 1510A01	107		12x6 CN	23	20	17	33	174	6,0	C° 10		C° 25	450	1450	6
419	1 450g	Tenshock 1510A01	107g		12x6 CN	23	20	17	33	174	6,0	C° 10		C° 25	450	1450	6
215 54	1 300g 1 800g	Tenshock 1510A02 Tenshock 1510A03		3550 3S tattu 2300 3950 3S 1300 CNHL		30 25	27 22	28	18 36	330 159	11 5,5	-C° 13 -C° 2		25 15	450 450	1300 1800	6
222	1 250g	Tenshock 1510A03		5000 3S R-line 850		55	41		13	464	16	-C 2		25	450	1250	11
416	1 450g	Tenshock 1510A01	107	4650 4S Turnigy 650	13v9 CN	48	41	38	13	435	15,0	C° 10		C° 25	450	1450	15
416	1 450g 1 450g	Tenshock 1510A01	107			39	35	32	13	435	15,0	C° 10		C° 25	450	1450	8
116	1 700g	Tenshock 1510A01		4650 4S Turnigy 650		48	40	35	14,0	406,0	14,0	C° 20		25	800	1700	10
119	1 700g	Tenshock 1510A01		4650 4S Turnigy 650		44	38	34	14,0	406,0	14,0	C° 20		25	800	1700	14
117 418	1 700g 1 450g	Tenshock 1510A01 Tenshock 1510A01		4650 4S Turnigy 650 4650 4S Turnigy 650		47 34	40 29	30 23	15,0 17	391,0 334	13,5 11,5	C° 20 C° 10		25 C° 25	800 450	1700 1450	11 13
118	1 700g	Tenshock 1510A01		4650 4S Turnigy 650		35	28		18,0	319,0	11,0	C° 20		25	800	1700	8
115	1 700g	Tenshock 1510A01	107	4650 4S Turnigy 650	GM11x6	33	25	21	22,0	275,0	9,5	C° 20		25	800	1700	5
114	1 700g	Tenshock 1510A01	107			25	24	17	23,0	261,0	9,0	C° 20		25	800	1700	5
435	1 500g	Tenshock 1510A01	107g	4650 4S Turnigy 650	14X1U CN				12	479	16,5	C° 10		C° 25	500	1500	12
85	1 650g	Tenshock 1510A02	107	3550 4S CNHL 1100	14x10 comp	38	32		16,0	360,0	12,5	C° 10	<30	30	450	1650	11
84	1 650g	Tenshock 1510A02	107	3550 4S Turnigy 650	14x10 comp	38	30		18,0	330,0	12,0	C° 10	<30	30	450	1650	11
88	1 650g	Tenshock 1510A02		3550 4S Turniny 650		39	31	22	18,0	305,0	12,0	C° 10	<30	30	450 500	1650	10
216 197	1 700g 1 650g	Tenshock 1510A02 Tenshock 1510A02		3550 4S Turnigy 650 3550 4S Turnigy 650		45 34	37 30	32	18,0 18,0	348,0 330,0	12,0 11,5	C° 20 C° 10	40 40	20 15	500 500	1700 1650	12 13
199	1 650g	Tenshock 1510A02		3550 4S Turnigy 650		33	28		17,0	320,0	11,5	C° 10	40	15	500	1650	10
				2550 4								e					
217 200	1 700g	Tenshock 1510A02 Tenshock 1510A02	107 107	3550 4S Turnigy 650 3550 4S Turnigy 650		35 28	31 24	25 17	19,0 21,0	305,0 265,0	10,5 9,5	C° 20 C° 10	35 <30	20 15	500 500	1700 1650	12 5
427	1 650g 1 500g	Tenshock 1510A02	107 107g			30	28	1/	17	348	12,0	C° 10	\3U	C° 25	500	1500	7
250	1 450g	Tenshock 1510A02		3550 4s 900 Dualsky		29	25	20	16,7	348,0	12,0	C° 14	<30	25	450	1450	7
19	2200g	Tenshock 1510A02		3550 4s 900mah		35	30	20	20,0	290,0	10,0	C° 2		20	450	2200	10
277	1 250g 1 250g	Tenshock 1510A03	107 107	3950 4S Turnigy 650		59 55	44	43 40	11	551	19 17	-C° 11		25	450 450	1250	15 15
276 59	1 800g	Tenshock 1510A03 Tenshock 1510A03		3950 4S Turnigy 650 3950 4S Turnigy 650		33	41	40	12 14	493 406	17 14	-C° 11 -C° 2		25 25	450 450	1250 1800	15 12
60	1 800g	Tenshock 1510A03			GM15x8			38	16	360	12,5	-C° 2		25	450	1800	9

57	1 800g	Tenshock 1510A03		3950 4S Turnigy 65		26	33	28	18	330	11	-C° 2		25	450	1800	12
58 56	1 800g 1 800g	Tenshock 1510A03 Tenshock 1510A03		3950 4S Turnigy 65 3950 4S Turnigy 65		36	34	30	23 44	261 130	9 4,5	-C° 2 -C° 2		25 25	450 450	1800 1800	8
30	1 0005	Telishock 1310A03	107	3530 43 Turnigy 03	O GIVITOXO				44	130	4,5	*C 2		23	430	1000	3
218	1 250g	Tenshock 1510A04	107	5000 4S Turnigy 65	0 GM12x8	55	44	40	10	600	20	-C° 13		25	450	1250	20
218	1 250g	Tenshock 1510A04		5000 4S Turnigy 65					11	522	18	-C° 3		15	450	1250	21
53	1 600g	Tenshock 1510A04	107	5000 4S Turnigy 65	0 GM14x10F	62	53		12	493	17	-C° 3		25	450	1600	17
52	1 600g	Tenshock 1510A04		5000 4S Turnigy 65		61	51		13	464	16	-C° 3		25	450	1600	15
51	1 600g	Tenshock 1510A04		5000 4S Turnigy 65		50	40	38	14	420	14,5	-C° 3		25	450	1600	18
	1 150g	Tenshock 1510A04	108	5000 4S Turnigy 65	of GM10x6	25	22		19	320	11	-C° 3		25	550	1150	
	Weight mode	l Motor	Weight	KV Battery	Prop	Max amp	Climb amp	Straight amp	Sec. to 200m	Max m 30sek	Max climb m/s	Temp outs	Temp mot	Temp batt	Altitude MASL	Weight mod	Zoom m
279	1 350g	Tenshock 1510A02		3550 6s CNHL 1100		59	53	46	9	667	23	-C° 3	Hot	25	450	1350	19
211	1 300g	Tenshock 1510A02	107	3550 6s R-line 850	GM12x8	40	34	39	11,0	615,0	20,0	-C° 14		25	450	1300	15
212	1 250g	Tenshock 1510A02		3550 6s Tattu 650	GM12x8	38	31	38	12,0	580,0	19,0	-C° 14		30	150	1250	19
278	1 350g	Tenshock 1510A02		3550 6s CNHL 1100		37	31	28	11	536	18,5	-C° 3		25	450	1350	17
210	1 300g	Tenshock 1510A02	107	3550 6s R-line 850 3550 6s Tattu 650	GM11x6 GM12x8	34 32	31 25	31	15,0	465,0 465.0	15,0 15.0	-C° 14 -C° 14		25 20	450 450	1300 1250	14 9
212 433	1 250g 1 550g	Tenshock 1510A02 Tenshock 1510A02		3550 6s CNHL 1100		32	25		15,0 10	580	20,0	-C 14 C° 10		C° 25	500	1550	27
245	1 450g	Tenshock 1510A02		3550 6s R-line 850		29	28	24	13,3	435,0	15,0	C° 14	<30	25	450	1450	14
246	1 450g	Tenshock 1510A02		3550 6s R-line 850		41	33		11,1	522,0	18,0	C° 14	50	25	450	1450	15
247	1 450g	Tenshock 1510A02	107	3550 6s R-line 850	CCM13x9	46	39	34	10,5	551,0	19,0	C° 14	50	25	450	1450	18
252	1 450g	Tenshock 1510A02		3550 6s Tattu 650		30	27-23	25	sagging batt		14-12 batt	C° 14	<30	25	450	1450	8
21	2200g	Tenshock 1510A02	107	3550 6s R-line 850	GM13x10C.L	45	40		11,8	493,0	17,0	C° 2		20	450	2200	12
214	1 300g	Tenshock 1510A02	107	3550 8S Turnigy 65	0 GM11x6	40	32	29	9	720	24	-C° 13		25	450	1300	6?
213	1 300g	Tenshock 1510A02		3550 8S Turnigy 65		29	22	24	10	600	20	-C° 13		25	450	1300	18
322	2 400g	Tenshock 1515A		4150 4S900 gensac		60	59,0	56,0	13	435	15,0	10	40	20	50	2400	14
323	2 400g	Tenshock 1515A		4150 6S850 rline	11x7 CCM	59	58,0		13	464	16,0	10	40	20	50	2400	17
448	1 500g	Tenshock 1515-15	103ø	3770 3s Turnigy 65	0 14x10GM (1	34	28	21	22	261	9,0	C° 10		C° 25	500	1500	7
442	1 500g	Tenshock 1515-15		3770 35 Turnigy 65		-	-	-	33	174	6,0	C° 10		C° 25	500	1500	3
449	1 500g	Tenshock 1515-15	103g	3770 4S Turnigy 65	0 14x10 GM CL	48	42	38	13	464	16,0	C° 10		C° 25	500	1500	15
447	1 500g	Tenshock 1515-15		3770 4S Turnigy 65		46	43	36	13	450	15,5	C° 10		C° 25	500	1500	16
446	1 500g	Tenshock 1515-15		3770 4S Turnigy 65		40	34	27	13	435	15,0	C° 10		C° 25	500	1500	13
443	1 500g	Tenshock 1515-15		3770 4S Turnigy 65		39	32	30	17 17	348	12,0	C° 10		C° 25	500	1500	14
439 445	1 500g 1 500g	Tenshock 1515-15 Tenshock 1515-15		3770 4S Turnigy 65 3770 4S Turnigy 65		34 35	28 30	25	17 18	334 319	11,5 11.0	C° 10 C° 10		C° 25 C° 25	500 500	1500 1500	13 14
437	1 500g	Tenshock 1515-15		3770 43 Turnigy 65		27	22		22	261	9,0	C° 10		C° 25	500	1500	5
436	1 500g	Tenshock 1515-15		3770 4S Turnigy 65		16	15		44	131	4,5	C° 10		C° 25	500	1500	6
		434															
	Weight mode	AXI I Motor	Weight	KV Battery	Prop	May amn	Climb amn	Straight amr	Sec. to 200m	May m 20sak	May climb m/s	Tomp outs	Temp mot	Tomn hatt	Altitude MASI	Weight mod	700m m
8	1 750g	AXI 2217/12 V2 Long		1380 3S 1800 Tattu	•	61	47	Juliangine anny	17,0	333,0	11,5	C° 2	Hot	15	400	1750	8
9	1 750g	AXI 2217/12 V2 Long		1380 3S 1800 Tattu		50	41	39	18,0	319,0	11,0	C° 2	Hot	15	400	1750	6
10	1 750g	AXI 2217/12 V2 Long	74g	1380 3S 1800 Tattu	RF12x6	53	41		19,0	300,0	10,5	-C° 6	Hot	20	400	1750	12
13	1 750g	AXI 2217/12 V2 Long		1380 3S 1800 Tattu		57	45		19,0	300,0	10,5	-C° 6	Too hot	20	400	1750	
7	1 650g	AXI 2217/12 V2 Long		1380 3s 850 R-line		54	45		21,0	304,0	10,5	C° 2	Hot	15	400	1650	7
11 12	1 750g 1 750g	AXI 2217/12 V2 Long AXI 2217/12 V2 Long		1380 3S 1800 Tattu 1380 3S 1800 Tattu		46 45	37 39		20,0 20,0	290,0 290,0	10,0 10,0	-C° 6		20	400 400	1750 1750	10 9
47	1 250g	AXI 2217/12 V2 Long		1380 35 1300 7attu		45	39		22,0	270,0	9,5	C° 15	<30	25	340	1250	10
5	1 650g	AXI 2217/12 V2 Long		1380 3s 850 R-line		47	36		22,0	275,0	9,5	C° 2	?	15	400	1650	8
123	1 250g	AXI 2217/12 V2 Long	74g	1380 3S 1300 25C	RF12x6				22,0	270,0	9,1	C° 15	<30	25	100	1250	5
35	1 650g	AXI 2217/12 V2 Long	74g	1380 3S 1800 Tattu	GM11X5	30	27	23	31,0	190,0	6,5	-C° 5		20	340	1650	1
					0.0100				12.0	513,0	17.2	Ct 2	?	25	240	1250	
200	1 250-	AVI 2247/42 V/2 I	74-	1200 AC T CE							17,2	C° 2	· ·				
266	1 250g	AXI 2217/12 V2 Long		1380 4S Turnigy 65		?	?		12,0				2		340 340		
264	1 250g	AXI 2217/12 V2 Long	74g	1380 4S Turnigy 65	0 GM11x6	?	? ? ?		12,0	495,0	16,5	C° 2	?	25	340 340 340	1250	
			74g 74g		0 GM11x6 0 GM11x6		?	40					?		340		10
264 265	1 250g 1 250g	AXI 2217/12 V2 Long AXI 2217/12 V2 Long	74g 74g 74g	1380 4S Turnigy 65 1380 4S Turnigy 65	0 GM11x6 0 GM11x6 0 GM10x6	?	?	40	12,0 13,0	495,0 477,0	16,5 16,0	C° 2 C° 2		25 25	340 340	1250 1250	10
264 265 108 269 268	1 250g 1 250g 1 650g 1 650g 1 650g	AXI 2217/12 V2 Long AXI 2217/12 V2 Long AXI 2217/12 V2 Long AXI 2217/12 V2 Long AXI 2217/12 V2 Long	74g 74g 74g 74g 74g 74g	1380 4S Turnigy 65 1380 4S Turnigy 65 1380 4S Turnigy 65 1380 4S Turnigy 65 1380 4S Turnigy 65	60 GM11x6 60 GM11x6 60 GM10x6 60 GM11x6 60 GM9x6	? ? 52 ?	? ? 42 ?		12,0 13,0 14,0	495,0 477,0 420,0	16,5 16,0 14,5 14,0 13,0	C° 2 C° 2 C° 25 C° 2	?	25 25 30	340 340 800 340 340	1250 1250 1650 1650 1650	
264 265 108 269 268 109	1 250g 1 250g 1 650g 1 650g 1 650g 1 650g	AXI 2217/12 V2 Long AXI 2217/12 V2 Long	74g 74g 74g 74g 74g 74g	1380 4S Turnigy 65 1380 4S Turnigy 65	60 GM11x6 60 GM11x6 60 GM10x6 60 GM11x6 60 GM9x6 60 GM11x5	? ? 52 ? ?	? ? 42 ? ?	40	12,0 13,0 14,0 14,0 15,5 16,0	495,0 477,0 420,0 423,0 390,0 362,0	16,5 16,0 14,5 14,0 13,0 12,5	C° 2 C° 2 C° 25 C° 2 C° 2 C° 2	? ? ? Hot	25 25 30 25 25 25	340 340 800 340 340 800	1250 1250 1650 1650 1650	6
264 265 108 269 268 109 112	1 250g 1 250g 1 650g 1 650g 1 650g 1 650g 1 650g	AXI 2217/12 V2 Long AXI 2217/12 V2 Long	74g 74g 74g 74g 74g 74g 74g	1380 4S Turnigy 65 1380 4S Turnigy 65	60 GM11x6 60 GM10x6 60 GM10x6 60 GM11x6 60 GM9x6 60 GM11x5 60 GM11x6	? ? 52 ? ? 57 58	? ? 42 ? ? 44 50		12,0 13,0 14,0 14,0 15,5 16,0 16,5	495,0 477,0 420,0 423,0 390,0 362,0 348,0	16,5 16,0 14,5 14,0 13,0 12,5 12,0	C° 2 C° 2 C° 25 C° 2 C° 2 C° 25 C° 25	? ? ?	25 25 30 25 25 25 30 30	340 340 800 340 340 800 800	1250 1250 1650 1650 1650 1650	6 5
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264 265 108 269 268 109 112 37 36 107 113 39 38 24 172	1 250g 1 250g 1 650g	AXI 2217/12 V2 Long AXI 22217/12 V2 Long AXI 2220/12 V2 Long	74g	1380 45 Turnigy 65 1200 35 R-line 850 1200 35 R-line 850	0 GM11x6 0 GM11x5 0 GM11x6 0 GM11x5 0 GM11x6 0 GM11x5 0 GM11x6 0 GM11x5 0 GM11x6 0 GM11x7 0 GM11x6 0 GM11x7 0 GM12x8	? ? ? 52 ? ? ? 55 8 42 28 44 43 36 44 38 32 Max amp 49 50-58 47 47	? ? ? 44 2 ? ? ? 44 50 35 31 37 36 30 37 31 27 Climb amp 62? 32-35 36 37 31 43 43	40 48 30 30 32 30 Straight amp	12,0 13,0 14,0 14,0 15,5 16,0 16,5 17,0 19,0 20,0 20,0 20,0 22,0 24,0 19,0 19,0 19,0 19,0 19,0 19,0 19,0 19	495,0 477,0 420,0 423,0 390,0 362,0 348,0 333,0 305,0 300,0 290,0 290,0 290,0 245,0 45,0 335,0 335,0 335,0 335,0 335,0 335,0	16.5 16.0 14.5 14.0 13.0 12.5 12.0 11.5 10.5 10.5 10.5 10.0 10.0 9.5 8.5 Max climb m/s 13.5 13.4 12.5 12.5 11.5	C* 2 C* 2 C* 25 C* 2 C* 25 C* 2 C* 25 C* 25 -C* 5 -C*	? ? Hot Hot  Temp mot <30  50 <30	25 25 30 25 25 30 20 20 20 30 30 20 20 30 20 20 20 30 20 20 20 30 20 20 20 20 20 20 20 20 20 20 20 20 20	340 340 340 340 340 800 800 800 340 800 340 800 800 340 800 340 340 340 340 340 340 340	1250 1250 1250 1650 1650 1650 1650 1650 1650 1650 16	6 5 10 4 3 4 112 6 8 9 9 2200m m 15
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264 265 108 269 112 37 36 107 113 39 38 24 172 239 25 22 177 21 174 240 20 175 18 245 175 18 245 272	1 250g 1 250g 1 650g 1 250g 1 250g 1 250g 1 250g 1 250g 1 250g 1 650g 1	AXI 2217/12 V2 Long AXI 2220/12 V2 Long AXI 220/12 V2 Long	74g 474g 474g 474g 474g 474g 474g 474g	1380 45 Turnigy 65 1200 45 Turni	00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM126	? ? ? 52 ? ? 57 58 42 28 44 43 36 44 43 38 32 Maxamp 49 32 36 47 47 39 32 36 33 34 47 47 39 32 36 33 34 47 47 39 32 36 33 34 48 32 49 49 32 36 40 40 40 40 40 40 40 40 40 40 40 40 40	? ?	40 48 30 30 32 30 <b>Straight amp</b>	12,0 13,0 14,0 14,0 14,0 15,5 16,0 16,5 17,0 19,0 19,0 20,0 22,0 22,0 24,0 16,0 15,0 17,0 17,4 18,2 22,0 20,0 22,0 22,0 22,0 22,0 22,0 2	495,0 477,0 420,0 423,0 390,0 423,0 390,0 300,0 300,0 300,0 290,0 290,0 245,0 Max m 30sek 391,5 335,0 333,5 319,0 319,0 245,0 270,0 270,0 270,0 270,0 277,0 200,0 159,0 Max m 30sek 174,0 200,0 246,5	16.5 16.0 14.5 14.0 13.0 12.5 12.0 11.5 10.5 10.5 10.5 10.0 10.0 9.5 8.5 Max climb m/s 11.5 11.0 11.0 11.0 11.0 11.0 10.0 9.5 9.0 9.0 9.5 8.5 7.5 6.7 5.5 Max climb m/s 6 8.5	C" 2	? Photo Hot Hot  Temp moto  30  50  30  40  30  40  30  40  30  40  20  20  20	25 25 25 30 30 25 30 30 20 30 30 20 20 20 20 20 20 25 25 25 25 25 25 25 25 25 25 25 25 25	340 340 340 340 800 800 800 800 340 800 800 340 800 340 340 340 340 340 340 340 340 340 3	1250 1250 1650 1650 1650 1650 1650 1650 1650 16	6 5 5 10 4 3 4 4 112 6 8 8 9 17 7 15 10 7 7 8 9 9 5 4 4 4 4 7 7 7 8 10 6 6
264 265 108 269 268 37 36 107 113 40 111 139 38 24 172 239 25 22 22 22 217 72 117 240 241 242 175 18	1 250g 1 250g 1 650g	AXI 2217/12 V2 Long AXI 2220/12 V2 Long AXI 220/12 V2 Long	74g 474g 474g 474g 474g 474g 474g 474g	1380 45 Turnigy 65 1200 35 R-line 850	00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM126 00 GM1126 00 GM126 00 GM1125 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM126	? ? ? 552 ? ? 57 58 42 28 44 43 36 44 43 38 32 49 49 50-58 47 47 47 39 32 36 52 54  25 31 24  Max amp	? ?	40 48 30 30 32 30 <b>Straight amp</b> 32-35	12,0 13,0 14,0 14,0 14,0 15,5 17,0 15,0 19,0 19,0 20,0 20,0 22,0 24,0 22,0 17,0 19,0 17,4 18,2 18,0 19,0 17,4 18,2 22,0 18,0 22,0 23,0 21,0 22,0 23,0 21,0 22,0 23,0 21,0 25,0 25,0 21,0 25,0 21,0 25,0 21,0 25,0 25,0 25,0 25,0 25,0 25,0 25,0 25	495,0 477,0 420,0 423,0 390,0 362,0 348,0 333,0 305,0 300,0 290,0 290,0 245,0 Max m 30sek 391,5 335,0 333,5 319,0 319,0 319,0 245,0 270,0 270,0 277,0 280,0 270,0 217,0 200,0 159,0 Max m 30sek	16.5 16.0 14.5 14.0 13.0 12.5 12.0 11.5 10.5 10.0 10.0 9.5 8.5 13.4 12.5 11.5 11.0 11.0 11.0 10.6 10.0 9.5 8.5 7.5 Max climb m/s	C" 2 C" 2 C" 2 C" 25 C" 25 C" 25 C" 25 C" 25 C" 25 C" 5 C" 25 C" 5 C" 5 C" 5 C" 5 C" 8 C" 0 -C" 8 C" 8 C" 8 C" 0 -C" 8 C" 7 -C" 5 -C" 5 -C" 5 -C" 7 -C" 10 -C" 10 -C" 10 -C" 10 -C" 2	? PHot Hot Hot  Temp moto  30  30  30  30  30  30  30  Temp moto 20  Temp moto 20	25 25 25 30 25 25 25 20 30 20 30 20 20 30 20 20 20 20 20 20 25 25 25 25 25 25 25 25 25 25 25 25 25	340 340 340 340 340 800 800 800 800 800 800 800 800 800 8	1250 1250 1650 1650 1650 1650 1650 1650 1650 16	6 5 10 4 3 4 112 6 8 9 9 2200m m 15 15 10 7 8 9 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
264 265 108 269 112 37 36 107 113 39 38 24 172 239 25 22 177 21 174 240 20 175 18 245 175 18 245 272	1 250g 1 250g 1 650g 1 250g 1 250g 1 250g 1 250g 1 250g 1 250g 1 650g 1	AXI 2217/12 V2 Long AXI 2220/12 V2 Long AXI 220/12 V2 Long	74g 474g 474g 474g 474g 474g 474g 474g	1380 45 Turnigy 65 1200 45 Turni	00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM126	? ? ? 52 ? ? 57 58 42 28 44 43 36 44 43 38 32 Maxamp 49 32 36 47 47 39 32 36 33 34 47 47 39 32 36 33 34 47 47 39 32 36 33 34 48 32 49 49 32 36 40 40 40 40 40 40 40 40 40 40 40 40 40	? ?	40 48 30 30 32 30 <b>Straight amp</b>	12,0 13,0 14,0 14,0 14,0 15,5 16,0 16,5 17,0 19,0 19,0 20,0 22,0 22,0 24,0 16,0 15,0 17,0 17,4 18,2 22,0 20,0 22,0 22,0 22,0 22,0 22,0 2	495,0 477,0 420,0 423,0 390,0 423,0 390,0 300,0 300,0 300,0 290,0 290,0 245,0 Max m 30sek 391,5 335,0 333,5 319,0 319,0 245,0 270,0 270,0 270,0 270,0 277,0 200,0 159,0 Max m 30sek 174,0 200,0 246,5	16.5 16.0 14.5 14.0 13.0 12.5 12.0 11.5 10.5 10.5 10.5 10.0 10.0 9.5 8.5 Max climb m/s 11.5 11.0 11.0 11.0 11.0 11.0 10.0 9.5 9.0 9.0 9.5 8.5 7.5 6.7 5.5 Max climb m/s 6 8.5	C" 2	? Photo Hot Hot  Temp moto  30  50  30  40  30  40  30  40  30  40  20  20  20	25 25 25 30 30 25 30 30 20 30 30 20 20 20 20 20 20 25 25 25 25 25 25 25 25 25 25 25 25 25	340 340 340 340 800 800 800 800 340 800 800 340 800 340 340 340 340 340 340 340 340 340 3	1250 1250 1650 1650 1650 1650 1650 1650 1650 16	6 5 5 10 4 3 4 4 112 6 8 8 9 17 7 15 10 7 7 8 9 9 5 4 4 4 4 7 7 7 8 10 6 6
264 265 108 269 268 37 36 107 113 39 38 24 172 239 25 52 22 177 21 240 20 20 2176 175 18 245 19	1 250g 1 250g 1 650g 1 250g 1 250g 1 250g 1 250g 1 250g 1 250g 1 650g 1	AXI 2217/12 V2 Long AXI 2220/12 V2 Long AXI 2250/12 V2 Long AXI 22	74g, 74g	1380 45 Turnigy 65 1200 35 Reline 850	00 GM1126 00 GM1125 00 GM1126 00 GM1125 00 GM1126 00 GM1125 00 GM1126 00 GM1125 00 GM1126 00 GM126 0	? ? ? 552 ? ? 57 58 42 28 44 43 36 44 43 38 32 47 47 47 39 32 36 33 34 52 54  Maxamp 18 18 18 30  Maxamp	? ? 42 ? 44 50 35 31 37 36 30 37 31 37 27 Climb amp 39 62? 32-35 36 37 31 43 27 29 42 28 42 43 44 42 22 43 44 42 26 21 Climb amp 12 16 25	40 48 30 30 32 30 <b>Straight amp</b> 32-35 32 <b>Straight amp</b>	12,0 13,0 14,0 14,0 14,0 14,0 15,5 16,0 16,5 17,0 21,0 19,0 20,0 20,0 20,0 22,0 24,0 19,0 19,0 17,0 17,4 18,2 18,2 18,2 18,2 18,0 20,0 25,0 21,0 21,0 22,0 23,0 27,0 23,0 27,0 36,0 36,0 36,0 38,0 38,2 38,3 38,3 38,3 38,3 38,3 38,3 38,3	495,0 477,0 420,0 423,0 390,0 362,0 348,0 333,0 305,0 300,0 290,0 290,0 275,0 245,0 335,0 335,0 335,0 335,0 3319,0 319,0 245,0 270,0 270,0 2770,0 217,0 200,0 217,0 200,0 217,0 200,0 217,0 200,0 Max m 30sek 174,0 246,5 391,5	16.5 16.0 14.5 14.0 13.0 12.5 12.0 11.5 10.5 10.5 10.5 10.0 10.0 9.5 8.5 Max climb m/s 13.5 13.4 12.5 11.5 11.0 11.0 10.6 10.0 10.0 9.5 8.5 7.5 6 7.5 7.5 Max climb m/s	C" 2 C" 2 C" 25 C" 25 C" 25 C" 25 C" 25 -C" 5 -C" 6 -C" 8 -C" 8 -C" 8 -C" 8 -C" 7 -C" 5 -C" 7 -C" 5 -C" 7 -C" 7 -C" 7 -C" 10 -C" 7 -C" 7 -C" 10 -	? Photo Hot Hot  Temp mot	25 25 25 30 20 30 20 30 20 30 20 30 20 20 30 20 20 25 25 25 25 25 25 25 25 25 25 25 25 25	340 340 340 340 340 800 800 800 340 800 800 340 800 340 800 340 340 340 340 340 340 340 340 340 3	1250 1250 1250 1250 1650 1650 1650 1650 1650 1650 1650 16	6 5 10 4 3 4 12 6 8 9 9 22oom m 15 15 9 6 9 9 11 1 7 7 8 9 9 6 9 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10
264 265 108 269 268 37 36 107 113 40 1111 131 38 24 172 239 25 22 21 177 21 24 20 20 24 175 18 24 24 21 25 27 27 27 27 27 27 27 27 27 27 27 27 27	1 250g 1 250g 1 650g 1 250g 1 650g 1	AXI 2217/12 V2 Long AXI 2220/12 V2 Long AXI 220/12 V2 Long AXI 2220/12 V2 Long AXI 220/12 V2 Long	74g, 74g, 74g, 74g, 74g, 74g, 74g, 74g,	1380 45 Turnigy 65 1200 35 R-line 850	00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM126 00 GM1126 00 GM126 00 GM12	? ? ? 552 ? ? 57 58 42 28 44 43 36 44 43 38 32 49 49 49 49 49 32 36 47 47 39 32 36 48 48 49 49 49 49 49 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	? ? 42 ? 44 50 35 31 37 36 30 37 31 27 Climb amp 42 28 42 43 44 42 22 66 21 Climb amp 12 16 25	40 48 30 30 32 30 <b>Straight amp</b> 32-35 32 <b>Straight amp</b>	12,0 13,0 14,0 14,0 14,0 14,0 15,5 16,0 16,5 17,0 19,0 19,0 20,0 20,0 22,0 24,0 19,0 17,4 18,2 22,0 17,4 18,2 18,0 20,0 22,0 22,0 23,0 23,0 21,0 22,0 23,0 23,0 23,0 23,0 24,0 25,0 21,0 25,0 25,0 25,0 25,0 25,0 25,0 25,0 25	495,0 477,0 420,0 423,0 390,0 362,0 348,0 333,0 300,0 300,0 290,0 290,0 245,0 245,0 335,0 335,0 335,0 335,0 339,0 319,0 319,0 245,0 280,0 270,0 270,0 217,0 200,0 159,0 Max m 30sek 174,0 246,5 391,5	16.5 16.0 14.5 14.0 13.0 12.5 12.0 11.5 10.5 10.5 10.5 10.0 10.0 9.5 8.5 13.4 12.5 12.5 11.5 11.0 11.0 11.0 11.0 11.0 10.6 10.0 9.5 8.5 7.5 6 8.5 7.5 6 8.5 13.5	C" 2 C" 2 C" 2 C" 25 C" 8	? Photo Hot Hot  Temp mot	25 25 25 30 20 30 30 20 30 30 20 20 30 20 20 20 20 20 20 25 25 25 25 25 25 25 25 25 25 25 25 25	340 340 340 340 340 800 800 800 340 800 800 340 800 340 340 340 340 340 340 340 340 340 3	1250 1250 1650 1650 1650 1650 1650 1650 1650 16	6 5 5 10 4 3 4 112 6 8 9 9 15 15 17 7 8 9 6 10 6 10 5 5 4 4 4 12 20 mm 0 6 10 5 5 5 2 3 ms
264 265 108 269 268 109 112 37 36 107 113 39 38 24 172 239 25 177 21 21 55 174 240 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	1 250g 1 250g 1 650g 1 250g 1 650g 1	AXI 2217/12 V2 Long AXI 2220/12 V2 Long AXI 220/12 V2 Long AXI 2220/12 V3 Long AXI 220/12 V3 Long AXI	74g	1380 45 Turnigy 65 1200 35 R-line 850	0.0 GM1126 0.0 GM126	? ? ? 552 ? ? 57 58 42 43 36 44 43 38 32 49 49 49 49 40 47 47 47 47 47 47 47 48 48 49 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	? ? ? 44 42 ? ? 44 50 35 31 37 36 30 37 31 37 36 37 31 32 37 36 37 31 43 27 29 42 28 42 43 44 42 22 26 21 Climb amp 45 5	40 48 30 30 32 30 <b>Straight amp</b> 32-35 32 35 <b>Straight amp</b>	12,0 13,0 14,0 14,0 14,0 14,0 15,5 16,0 16,5 17,0 21,0 19,0 20,0 20,0 20,0 20,0 22,0 24,0 24,0 19,0 17,0 17,4 18,2 22,0 18,0 20,0 20,0 20,0 20,0 20,0 20,0 20,0 2	495,0 477,0 420,0 423,0 390,0 362,0 348,0 333,0 305,0 300,0 290,0 290,0 290,0 275,0 245,0 331,5 331,5 331,5 331,5 331,9 315,0 320,0 270,0 270,0 270,0 271,0 200,0 2770,0 217,0 200,0 217,0 200,0 217,0 200,0 217,0 200,0 217,0 200,0 217,0 217,0 200,0 217,0 217,0 200,0 217,0	16.5 16.0 14.5 14.0 13.0 12.5 12.0 11.5 10.5 10.5 10.0 10.0 10.0 10.0 10	C" 2 C" 2 C" 25 C" 25 C" 25 C" 25 C" 25 C" 25 -C" 5 C" 25 -C" 5 C" 25 -C" 5 -C" 6 -C" 7 -C" 8 -C" 8 -C" 7 -C" 5 -C" 7 -C" 5 -C" 7 -C" 7 -C" 5 -C" 7 -C	? ? Phothering in the property of the property	25 25 25 30 20 30 20 30 20 30 20 30 20 20 30 20 20 25 25 25 25 25 25 25 25 25 25 25 25 25	340 340 340 340 340 340 340 340 800 800 340 800 340 340 340 340 340 340 340 340 340 3	1250 1250 1250 1250 1650 1650 1650 1650 1650 1650 1650 16	6 5 5 10 4 3 4 112 6 8 8 9 120mm 15 15 15 10 7 8 9 6 6 9 11 7 7 8 9 9 14 4 4 120mm 10 6 10 10 15 15 10 10 10 10 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10
264 265 108 269 268 37 36 107 113 40 1111 131 38 24 172 239 25 22 21 177 21 24 20 20 24 175 18 24 24 21 25 27 27 27 27 27 27 27 27 27 27 27 27 27	1 250g 1 250g 1 650g 1 250g 1 650g 1	AXI 2217/12 V2 Long AXI 2220/12 V2 Long AXI 220/12 V2 Long AXI 2220/12 V2 Long AXI 220/12 V2 Long	74g, 74g, 74g, 74g, 74g, 74g, 74g, 74g,	1380 45 Turnigy 65 1200 35 R-line 850	00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM126 00 GM125 00 GM1126 00 GM125 00 GM1125 00 GM1125 00 GM1125 00 GM1125 00 GM1125 00 GM1125 00 GM125 00 GM125 00 GM125 00 GM125 00 GM125 00 GM126	? ? ? 552 ? ? 57 58 42 28 44 43 36 44 43 38 32 49 49 49 49 49 32 36 47 47 39 32 36 48 48 49 49 49 49 49 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	? ? 42 ? 44 50 35 31 37 36 30 37 31 27 Climb amp 42 28 42 43 44 42 22 66 21 Climb amp 12 16 25	40 48 30 30 32 30 <b>Straight amp</b> 32-35 32 <b>Straight amp</b>	12,0 13,0 14,0 14,0 14,0 14,0 15,5 16,0 16,5 17,0 19,0 19,0 20,0 20,0 22,0 24,0 19,0 17,4 18,2 22,0 17,4 18,2 18,0 20,0 22,0 22,0 23,0 23,0 21,0 22,0 23,0 23,0 23,0 23,0 24,0 25,0 21,0 25,0 25,0 25,0 25,0 25,0 25,0 25,0 25	495,0 477,0 420,0 423,0 390,0 362,0 348,0 333,0 300,0 300,0 290,0 290,0 245,0 245,0 335,0 335,0 335,0 335,0 339,0 319,0 319,0 245,0 280,0 270,0 270,0 217,0 200,0 159,0 Max m 30sek 174,0 246,5 391,5	16.5 16.0 14.5 14.0 13.0 12.5 12.0 11.5 10.5 10.5 10.5 10.0 10.0 9.5 8.5 13.4 12.5 12.5 11.5 11.0 11.0 11.0 11.0 11.0 10.6 10.0 9.5 8.5 7.5 6 8.5 7.5 6 8.5 13.5	C" 2 C" 2 C" 2 C" 25 C" 8	? Photo Hot Hot  Temp mot	25 25 25 30 20 30 30 20 30 30 20 20 30 20 20 20 20 20 20 25 25 25 25 25 25 25 25 25 25 25 25 25	340 340 340 340 340 800 800 800 340 800 800 340 800 340 340 340 340 340 340 340 340 340 3	1250 1250 1650 1650 1650 1650 1650 1650 1650 16	6 5 5 10 4 3 4 112 6 8 9 9 15 15 17 7 8 9 6 10 6 10 5 5 4 4 4 12 20 mm 0 6 10 5 5 5 2 3 ms
264 265 269 268 37 36 107 113 40 111 139 38 24 172 229 25 22 22 22 217 217 241 241 242 25 18 25 18 25 19 27 27 27 27 27 27 27 27 27 27 27 27 27	1 250g 1 250g 1 650g 1 250g 1 650g 1	AXI 2217/12 V2 Long AXI 2220/12 V2 Long AXI 220/12 V2 Long AXI 2220/12 V2 Long AXI 220/12 V2 Long AXI 220/12 V3 Long A	74g	1380 45 Turnigy 65 1200 35 Rhine 850	00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM126 00 GM126 00 GM126 00 GM126 00 GM1126 00 GM1126 00 GM126 00 GM126 00 GM128	? ? ? 552 ? ? 57 58 42 28 44 43 36 44 43 38 32 49 49 49 49 49 49 49 49 49 49 49 49 49	? ?	40 48 30 30 32 30 Straight amp 32-35 32 35 Straight amp	12,0 13,0 14,0 14,0 14,0 14,0 15,5 16,0 16,5 17,0 19,0 19,0 20,0 20,0 20,0 24,0 19,0 24,0 19,0 17,0 17,4 18,2 22,0 18,0 20,0 25,0 21,0 22,0 23,0 22,0 23,0 21,0 22,0 23,0 23,0 23,0 25,0 25,0 25,0 25,0 25,0 25,0 25,0 25	495,0 477,0 420,0 423,0 390,0 362,0 348,0 333,0 305,0 300,0 290,0 290,0 290,0 245,0 Max m 30sek 391,5 335,0 333,5 319,0 319,0 319,0 245,0 280,0 270,0 217,0 200,0 159,0 245,5 391,5 391,5 391,5 391,5 391,5 391,5 391,5 391,5	16.5 16.0 14.5 14.0 13.0 12.5 12.0 11.5 10.5 10.5 10.0 10.0 9.5 8.5  Max climb m/s 6 8.5  Max climb m/s 6 8.5  Max climb m/s 13.6 200 m m 18 25 200 m m 18 25 25 200 m m 18 25 25 25 25 25 26 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28	C" 2 C" 2 C" 25 C" 5 C" 5 C" 5 C" 6 C" 7 C" 8 C" 8 C" 8 C" 8 C" 8 C" 8 C" 7 C" 10 C"	? PHot Hot Hot  Temp moto  \$30  \$30  \$30  \$30  \$30  \$30  \$30  \$3	25 25 25 30 20 30 20 30 30 20 30 20 30 20 20 20 20 20 20 20 20 20 20 20 20 20	340 340 340 340 340 800 800 340 800 800 340 800 840 840 840 340 340 340 340 340 340 340 340 340 3	1250 1250 1250 1250 1650 1650 1650 1650 1650 1650 1650 16	6 5 10 4 3 4 12 6 8 9 9 Zoom m 15 15 9 6 9 11 7 7 8 9 9 6 10 10 10 6 10 10 10 10 10 10 10 10 10 10 10 10 10
264 265 108 269 112 37 36 107 113 38 24 172 21 175 18 245 217 273 222 277 21 18 245 245 273 273 273 273 273 273 273 273 275 275 275 275 275 275 275 275 275 275	1 250g 1 250g 1 650g 1 250g 1 250g 1 650g 1	AXI 2217/12 V2 Long AXI 2220/12 V2 Long AXI 220/12 V2 Long AX	74g, 74g, 74g, 74g, 74g, 74g, 74g, 74g,	1380 45 Turnigy 65 1200 35 R-line 850	00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM1126 00 GM126 00 GM126 00 GM126 00 GM126 00 GM1126 00 GM1126 00 GM126 00 GM126 00 GM128	? ? ? 552 ? ? 57 58 42 28 44 43 36 44 43 38 32 49 49 49 49 49 30 31 32 36 33 34 52 54  Max amp 18 18 18 30  Max amp 18 18 18 30	? ? 44 50 35 31 37 36 30 37 36 30 37 31 27 Climbamp 43 42 22 43 44 42 22 6 21 Climbamp 12 16 25  Climbamp 12 16 25	40 48 30 30 32 30  Straight amp 32-35  32  35  Straight amp max15sec  Straight amp	12,0 13,0 14,0 14,0 14,0 14,0 15,5 16,0 16,5 17,0 19,0 19,0 20,0 20,0 22,0 24,0 19,0 17,4 18,2 22,0 17,4 18,2 18,0 20,0 22,0 22,0 23,0 23,0 23,0 24,0 25,0 21,0 25,0 25,0 25,0 25,0 25,0 25,0 25,0 25	495,0 477,0 420,0 423,0 390,0 362,0 348,0 333,0 300,0 300,0 290,0 290,0 245,0 245,0 335,0 335,0 335,0 335,0 339,0 319,0 319,0 245,0 270,0 270,0 271,0 280,0 270,0 270,0 217,0 200,0 159,0 174,0 246,5 391,5 Weight mode 1650 1700	16.5 16.0 14.5 14.0 13.0 12.5 12.0 11.5 10.5 10.5 10.5 10.0 10.0 9.5 8.5 13.4 12.5 12.5 11.5 11.0 11.0 11.0 11.0 10.6 10.0 9.5 8.5 7.5 Max climb m/s 6 8.5 13.5  Max climb m/s 6 8.5 13.5	C" 2	? Photo Hot Hot   Temp mot   30  50  430  430  430  430  430  430	25 25 25 30 20 30 20 30 30 20 20 30 20 20 20 20 20 20 25 25 25 25 25 25 25 25 25 25 25 25 25	340 340 340 340 340 800 800 800 340 800 800 340 800 340 340 340 340 340 340 340 340 340 3	1250 1250 1650 1650 1650 1650 1650 1650 1650 16	6 5 5 10 4 3 4 112 6 8 9 9 15 15 10 10 7 8 9 6 10 10 10 10 10 10 10 10 10 10 10 10 10

#### Updated 02.12.2023

These are my personal findings and scores are according to what I feel.  $% \label{eq:local_score} % \label{eq:local_scor$ 

Some small adjustments to spinners might have to be done.

Some props are wider than others. That is mainly not taken into condsideration.

Some combinations could deserve a 7 but I have not opted for a best score.

- 1 Bad fit and does not fold to fuse
- 2 Not folding properly
  3 Folds but not perfect
- 4 Folds and fits decent
- 5 Folds good and fit is good
- 6 Folds almost perfect and fit is good

#### 30mm Prestige nose - 30mm spinners

Propeller	Spinner	·									
	VM PRO	VM PRO	Hyperspinner	GM	GM	GM	GM	CCM 30	GM comp	GM comp(big	gger yoke)
		Yoke fr 32mm		28mm yoke	30mm yoke	32mm yoke	34mm yoke				
GM9x5	1	2	5	6	6		5				
GM13x8	1	2	5	6	5		5				
GM12x8	1	1	5	6	6		4				
GM11x5	1	1	6	6	6		5				
GM15x8	1	1	5	6	6		5				
GM16x8	1	1	5	6	5		4				
GM14x7	1	1	5	6	6		4				
GM10x6	1	1	6	6	6		5				
GM10x5	1	1	6	6	6		5				
GM9x6	1	1	6	6	6		5				
GM11x6	1	1	6	6	6		5				
RF10x6	4	5	4	5	5		4				
RF12x6	3	5	3	5	5		3				
RF11x6,5	1	5	3	6	6		5				
VM12x8	5	5	5	5	5		4				
VM11x7	5	6	5	6	6		4				
Vita11x6	1	4	5	5	5		4				
Vita9x6	1	2	4	3	3		4				
CAM13x7	1	1	2	4	4		4				
CAM10x6	1	1	3	3	3		4				
CAM11x6	1	1	2	4	4		4				
CAM12x6	1	1	2	4	4		4				
GM14x10F				5	6						
GM 12x10 C	Comp								4	6	
GM 13x10C									4	6	
GM 14x10C									4	6	
CCM11x7	6	5						6			
CCM12x8	5	5						4			
CCM13x9								1			

32mm	Prestige	nose -	32mm	sninners

32mm Pres	tige nose - :	32mm spinners							
	VM PRO	Hyperspinner	Hypersp. 30mm	RF Z	GM	GM	GM	GM	GM C.L
				23mm yoke	28mm yoke	30mm yoke	32mm yoke	34mm yoke	
GM9x5	1	5		2	3	3	5	5	
GM13x8	1	5		3	3	6	5	5	
GM12x8	1	5		2	3	6	6	5	
GM11x5	1	5		2	2	3	4	6	
GM15x8	1	5		3	3	6	6	5	
GM16x8	1	5		2	3	6	6	6	
GM14x7	1	5		2	3	3	6	6	
GM10x6	1	5		2	2	3	4	6	
GM10x5	1	5		2	3	3	4	6	
GM9x6	1	5		2	3	3	5	6	
GM11x6	1	5		2	2	3	5	6	
RF10x6	5	5		6	3	5	5	4	
RF12x6	4	5		6	4	5	5	4	
RF11x6,5	2	6		4	3	4	6	6	
VM12x8	3	5		2	2	2	3	5	
VM11x7	2	5		2	2	2	5	5	
Vita11x6	2	5		3	3	6	6	4	
Vita9x6	1	6		1	1	2	2	2	
CAM13x7	1	4		1	1	3	5	4	
CAM10x6	1	3		1	1	3	5	4	
CAM11x6	1	4		2	2	4	5	4	
CAM12x6	1	5		1	1	5	5	4	
GM 14x10F							4	6	
RF 10x16							1		
GM 16x10							5	6	
Solidtec A1		5							ı
GM10x6C.L	-								
CCM11x7		5							
CCM12x8		6						5	
CCM13x9	5	5	5						