

ABOUT THE JOYSWAY DRAGON FORCE RG65 (DF65)



Product Description

Joysway 2016 Dragon Force V4 RTR (Ready to Run) RC Sailboat. New improved 2016 version. The Joysway Dragon Force has been developed to introduce an affordable competition style sailboat to the RC market. A collaboration between Joysway and three top sailboat designers has resulted in the 2016 Dragon Force V4 RC Sailboat. With sleek lines and competition developed sails the Dragon Force is a race performer and is competitive against sailboats that are ten times the price. This sailboat is based on the ICE design with an ABS hull, profiled aluminium fin and moulded plastic rudder. The rig is a full sized, low aspect RG65 rig with carbon spars and a ball raced gooseneck. The Dragon Force also features pre-installed radio and can be on the water and ready to sail within 30 minutes.



Specifications

- Radio: Included: 2.4Ghz 4 Channel Transmitter/Receiver
- Servos: Included
- Fuel Source: Electric
- Length: 655mm / 25.8in
- Height: 1338 mm / 52.7 in
- Width/Diameter: 116 mm / 4.6 in



Features

2.4GHz 4-Channel digital transmitter and receiver are included.

Rudder servo and powerful winch servo included.

Plastic display stand included.

Zinc alloy ballast and Aluminium Alloy Keel.

Counterweighted jib.

Rubber bow bumper.

"A-rig" and sails, plus bowsies, dyneema cord and necessary accessories are all included.

Instruction manual.

Requires: 4x AA batteries for the transmitter, 4x AA batteries for the receiver.



5.

The Dragon Force RG65 by Joysway is an RG65 class-ready boat.

It is inexpensive, mass produced, and has become one of the fastest selling RC sailboats in recent history. The Dragon Force comes completely ready-to-race out of the box, including installed servos, electronics, and radio. This makes it easy and simple to do what is most important in our sport... SAIL!!!

Better yet, it is very well designed for a mass produced kit boat. Based on Mark Dicks successful "Ice" Open RG65 design, the DF is not a shrunk down version of popular Cup boat that struggles to sail well. It has quality parts, rigs and characteristics available in many RC Sailing classes that make it a very good sailing boat out of the box. Up to date components like carbon fiber rigs, ball raced gooseneck, and watertight construction set it apart from other entry level boats. In fact, the DF weighs in at about 1200 grams making it very comparable to most of its Open RG65 cousins! *Depending on the RG65s in your area you can race it as an RG65 or as a One Design class boat.*

The [Dragon Restricted Class Rules](#) give a good set of guidelines for clubs wishing to race this boat as a strict one design class.

A Brief Dragon Force History (US)

The story so far by Mike Weston

After a discussion with John Wesley (Ripmax rep) some 3 years ago I tested the original Joysway fleet (Caribbean, Fiesta & Discovery) that were all typical mass produced model yachts – heavy, over-rigged, unbalanced etc. Mark Dicks & John Tushingham were called aboard & we all met at Swanley Park using a Micro Magic & 2 RG65 yachts we demonstrated what a decent designed yacht could do - running rings around the Joysway fleet. Suitably impressed John Wesley asked us to design a radio racing yacht for Joysway to mass produce. We only had 6 weeks to produce a design & for this reason we went for a current class & design – the Mark Dicks RG65 “Ice” modified with its transom slightly pinched in.

With Ripmax, I met the Joysway team (Stanley, Johnson & Giggs) at the Nuremberg Toy Fair in February 2012 to discuss the project & explain exactly what was required for a radio racing yacht. With new design & a RG65 Ice in hand Joysway dually went back to China & we waited in anticipation for what would arrive later in the year.

We received the first prototype late 2012 – blow moulded, random fin box/mast housing unit & rudder housing unit – we took a step back to appreciate what had turned up. The fin was in line with rudder & all in line with the mast, mast slider to adjust rake, shroudless rig, rotating the mast ball race kicker/gooseneck fitting etc. etc. – almost there!! The hull was a bit heavy & ballast was slightly too far back as the transom was in couple of mm – but what a good job Joysway had done & what a totally new look at the engineering of a hull. We then asked if the hull could be made lighter & whether the ballast could be moved further forward – two further hulls arrived but these were too light and started falling apart but it was too late to change the ballast so we suggested that the batteries could be housed by the fin box so as to bring the weight forward.

We all met again at Nuremberg Toy Fair February 2013 where the DF65 was displayed for the first time on the Ripmax stand & to discuss any further modifications that might be required. We all celebrated that evening & this went on to the early morning - very messy. The first batch arrived in May which now in full production had a couple of issues mainly a few were very weak at the top of the bow needing reinforcement. The second batch had a modified bow which eliminated the problem & different bow elastic sheeting fitting. The third version is now in production - this has a plastic servo tray & modified switch. Two other improvements are in the pipeline – all metal main boom compression strut for easier

6.

construction/adjustment & mast/boom support rings to stop them splitting. These will not improve the performance of the yacht only the construction.

Unfortunately John Wesley passed away just after the Toy Fair but he did at least see the DF in production form – he will be sadly missed & we have named the UK DF National trophy in his honour.

We envisaged a few issues with the DF65 as part of the RG65 class & the problems of a class within a class – the DF would be at least 120 grams heavier & would not compete the development RG's. As stated before, because of the timescale issues we needed a ready available class/design & recognised the RG65 class & Marks "Ice" as the best option. You can sail the DF as an RG65 with swing rigs, high aspect sails & make as many modifications as you like – you can also sail within the restricted rules making the DF an affordable option with close performance sailing – you can also make your own rules as its your yacht.

I would like to thank John Tushingham for all his time & effort into the concept of the DF & work on the class rules.

This is ours & Joysway first attempt at producing a radio racing yacht & although not perfect defiantly big improvement to the normal toys & defiantly value for money. As stated before – your constructive criticism is welcome.

May your force be with you!!

Building Class Legal B & C Rigs for High Wind Sailing!

The stock Dragon Force main rig (A Rig) can easily handle winds up to 10-15 MPH. However if you want to sail your Dragon in windier conditions the Restricted Class Rules allow for Smaller "B & C" rigs to be built. You must use original manufacturer parts for all rigs to comply with the rules!

The B Rig can handle winds 15-20 mph, and the C rig can handle winds in the bands above this as far as you dare to go!! These rigs are not "required" but are allowed for bigger regattas! The Jib and Main booms are the same size for all 3 rigs, but the masts and sails conform to specific size rules listed in the rules.



B Sail Set Plain \$20.50



C Sail Set Plain \$20.50

The most in-demand best selling RC yacht in the world!

The Joysway Dragon Force 65, or DF65 for short, is by far currently the best selling RC yacht in the world. The reasons are as simple as the concept and design itself, which was developed in collaboration between Joysway and three top performance yacht designers (Mike Weston, Mark Dicks and John Tushingham) known as the group of three. This

partnership has resulted in the DF65 which was first released in February 2013, an affordable competition class RC yacht that is so affordable it can be enjoyed by serious competitors and non serious hobbyists alike. Sleek lines and competition-developed sails make the Dragon Force 65 race, perform and compete against even those yachts that would be 10 times the price!

The Dragon Force 65 is a recognised competition RC yacht that can be sailed in the restricted DF65 subclass, or may be sailed within the RG65 class with well defined rules and RC associations that are

7.

located worldwide. The boat is based on the ICE design with an ABS hull, profiled aluminium fin and moulded plastic rudder. The rig is a full sized, low aspect RG65 rig with carbon spars and a ball raced gooseneck.

“The brilliant thing about owning a Joysway DF65 is that whether you are near rural Tasmania, Manly NSW, Perth WA or in Saitama Japan - the probability of a reasonably sized group of enthusiasts also sailing the DF65 near you is very high...”

Having a Joysway Dragon Force means that, should you like to, you can usually find a location local to you to learn sailing tips and how to configure sails or rigging, compare (and hone) your sailing skills against others, participate in local, state, national or international competitions.

Ready To Race (RTR) out of the box

The DF65 is ready to setup and race out of the box as a Ready To Run RC model, and comes with everything necessary to get started except for AA batteries (eight AA are required). Servo's, digital 2.4GHz transmitter and receiver are therefore all included along with sails, fittings etc.

Spare parts availability

Being the worlds best selling RC yacht, we are well stocked with all of the parts that you need to keep your afternoons and weekends going! In the unusual event we are out of stock on DF65 parts, be assured there won't be a very long delay - and they're so low in cost that many hobbyists now use them as replacement parts for other rc boat models in nearby countries.

At Hobby Warehouse we've made purchasing the DF65 as close to getting it off the factory production line as we possibly can. Containers arrive directly from Joysway in nearby China and are stocked directly into our warehouses around Australia. As the primary distributor for the Asia Pacific region, we are stocked regularly with boats and parts throughout the year. Whether you are ordering from Australia, Japan, New Zealand or another country means you can have your yacht in as little as 1-3 days worldwide at extremely low cost. What previously cost \$800 to \$1000 (or higher) has now been made very affordable, and with low cost parts means there are zero barriers to you enjoying your spare time sailing in your local waterway.

Version revisions from 2013 to 2016

Due to the boats popularity and success, there have been a number of gradual improvements to the design and manufacture of the Joysway 65 to make it even better.

Hobby Warehouse currently stocks the latest V5 model revision that includes the following modifications:

New pear-shaped mainsail luff ring, assisting to prevent the jib boom lifting cord from getting caught in the luff ring.

Improved bowsie design, for easier use and adjustment.

Finer pitched thread on compression strut for improved adjustment.

Added sail clew hook on jib boom and main boom for fast/improved rigging.

Replaced the 4th silicone tube on the jib boom, and the 3rd silicone tube on main boom with silicone rubber "O" rings for easier rigging.

Deleted the clip at top of forestay - it is considered better to tie the forestay cord, jib sail lifting cord and jib boom lifting cords directly to the forestay fitting. This also conforms to racing rules.

Re-written instruction manual to incorporate the above changes and improved explanation of the rigging process.