

# MICRO MAGIC Class Rules

## General

These regulations provide the basis for a one-design class of model sailboats based on the Micro Magic building kit from the Graupner Company. It is the intention of these rules to provide for the racing of R/C model sailboats in an even field with controlled costs using the standard components of the Micro Magic Construction kit. The rules allow for some freedom to make minor changes in the construction of the boat.

## Regulations

### 1. Hull

- a) The hull must use the original Graupner ABS-shell. This component may not be changed. This is valid for both the thickness of the material as the form.
- b) The deck must use the original Graupner ABS-component. This component may not be changed. This is valid for both the thickness of the material as the form. Small additional holes for conduits are allowed.
- c) The Cockpit may not be changed. This is valid for both the thickness of the material as the form.
- d) The construction and use of materials inside of the hull are only restricted with regard to the keel box so as referred to in section 1.f.
- e) The location of the mast is restricted to the location of the standard Graupner mast hole.
- f) Reconstruction of the keel box and the integral mast guide such that the mast foot may be adjusted is not allowed.
- g) Per regatta, each boat must only make use of one hull. Exceptions are allowed in the event of demonstrable damage.

### 2. Weight of sail-ready boat.

The weight of the boat must not be less than 860 grams.

### 3. Keel and Rudder

- a) The location of the keel and rudder are restricted to use of the standard Graupner openings
- b) The keel inclusive of the lead ballast may not extend farther than 135 mm from the hull.
- c) The keel must be removable but when attached to the boat may not be further adjusted.
- d) The keel must use the original Graupner ABS-component. This component may not be changed. This is valid for both the thickness of the material as the form. It is allowed to file the keel rectangle that extends from the hull, such that a smooth shape appears in line with the overall profile of the keel.
- e) The weight of the keel including ballast may not be less than 380 grams and not more than 420 grams.
- f) The keel lead ballast must use the original Graupner lead-component. The shape of the ballast may not deviate from the original model, as delivered by Graupner. This component may not be changed. The cross-section must have a circular form at every point. A tolerance of 1 mm is allowed.
- g) The front of the lead ballast, as measured along a direct line parallel on the front edge of the keel must extent at least 15 mm.
- h) Wings or other extensions are not allowed for either the keel or rudder.
- i) The rudder may only use the standard rudder as provided by Graupner. The form and profile of the rudder may not be altered. The location and attitude of the rudder housing may not deviate from the standard as provided by Graupner.

#### **4. Spars**

- a) The diameter of the mast must be 6 mm with a tolerance of 0.5mm.
- b) The diameter of the boom and jib boom must be 5 mm with a tolerance of 1mm.
- c) The profile of all spars must be round over their entire length.
- d) The materials used in the spars have no restrictions.
- e) The maximum distance from the deck to the mast top in 780mm.
- f) Swivel masts are not allowed.
- g) The mast-boom connection is not restricted, as is the construction of the boom vang.
- h) The jib boom may not have a fixed connection with either the mast or boom and through the use of a flexible connector must be connected to the deck to a fixed point on the foredeck.

#### **5.Fixed and running rigging**

- a) The material and construction of the fixed and running rigging is not restricted.
- b) A mast spreader is not required.

#### **6. Sails**

- a) The contours, as shown in the sailplan (attachment 1), may not deviate in any way. The maximum tolerance is 2mm. Smaller sails are allowed, so long as they remain within the maximum limits as shown in attachment 1.
- b) There are no limits with regard to materials used, constructions, reinforcements, or corner reinforcements. The sails are required to be made of flexible materials.
- c) Jib and mainsail must display a class provided sail number and country designation as described in the sailplan. The minimum letter and number height is 40 mm. The minimum letter and number width is 6 mm.
- d) The mainsail must display the class logo with a minimum height of 30mm.

#### **7. Steering**

##### *Servo's*

De Micro Magic is limited to two servo's. One servo must be used for rudder and one servo must be used for the sheets.

##### *Transmitter and receiver*

The steering of the Micro Magic consists of a transmitter and receiver installation of which only two functions may be used. One channel must be used for the rudder and one channel must be used for the sheets.

# Attachment 1

MICRO MAGIC  
Segelabmessungen

