

MinScale Models Heinrich Eder

Heinrich Eder préconise une série plus simple que les Cacahuètes, d'utilisation plus facile car volant plus lentement, donc utilisable dans de petites salles et pouvant être facilement télécommandée JC

Peanut scale models look very fine but to my opinion are too fast and unrealistic in flight. Normally area weight amounts to about 5g/dm² with 5m/s forward speed. Once I was fallen in love with Sainte Formule Models that fly so gently and this was very amazing for me.

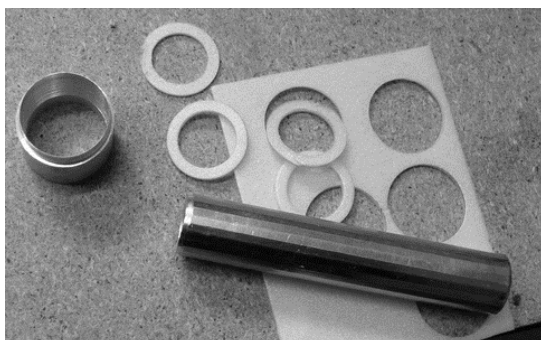
I thought about a new class of models combining semiscale look and slow flight. I called the models „MinScale“. After some experiments I finished with model weights of 6-7 g, including RC. This models feature frame wings (curved plates) as indoor duration models, covered with 12-14g/m² Japaese paper (Esaki, Mitsumata or Kashmir). The paper can be pre-printed with an ink jet printer. No dope is applied to the cover only a breath of water fog from a parfume sprayer or maybe gentle application of steam from a water boiler.



Structure can be built very light as there are no high forces like in rubber driven models. Wheels are homemade from a disc 2x0,8 mm balsa (crossed grain) and 2 tire-rings from 1,2 mm Depron glued on both sides of the balsa disc. Weight of a pair of wheels with 30 mm dia. is 0,5 g. RC consists of a DelTang receiver (0,28g), a 25 mAh Lipo cell (1g) and a coil actuator for the rudder (0,3g).

The motor is a coreless type 6 mm dia. and 4,5 Ohm internal resistance), geared 1:5 or even 1:10. For free flight the models can also be furnished with a 6 mm/10 Ohm motor geared 1:5

and a 5 Farad Supercap. The propeller is a Reely with 80 mm diam. or a 100 mm carbon prop from Microinvent. Flight times for free flight range around 1 and with RC around 5-7 min. Flying this models, a lot of fun is guaranteed!



Sources: Micron Wings (AUS), Didel.com (SUI), RC: Micron Radio Control (UK).

For more infos please contact me (eder@arcor.de)

Heinrich Eder

Pictures:

Veloz 1918 (Walt Mooney plan)

Otto military biplane 1912 (built after original)

Production of Depron rings using sharpened tubes