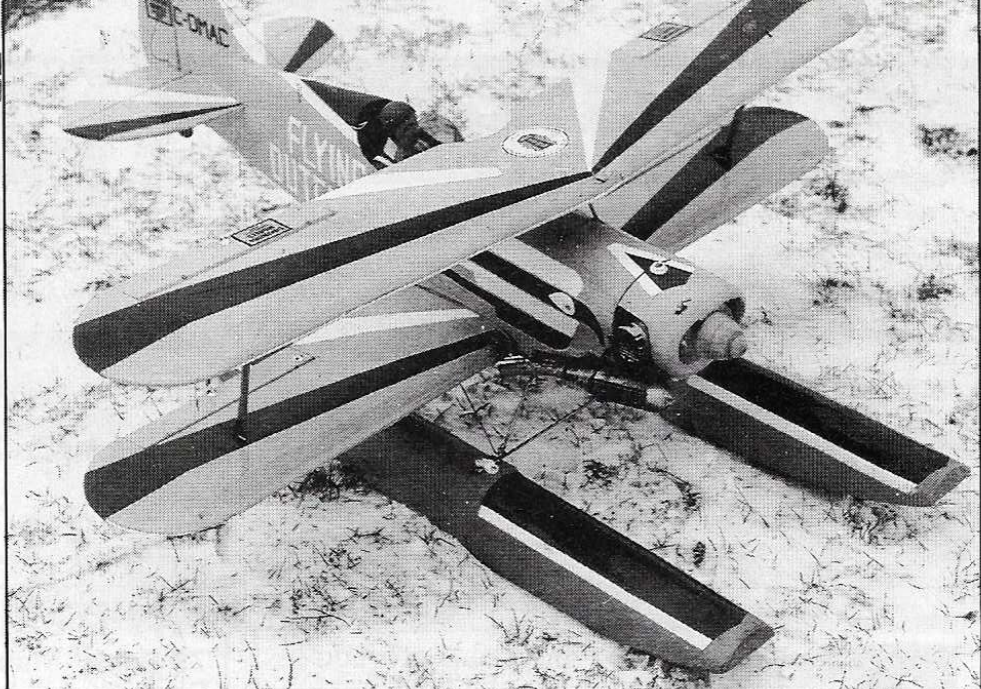


The basic ideas behind the 'Double Dutch' design are: (1) The model would have to fly slowly so as to enable hand launching from and landings into rough pasture. (2) Because of the above, the model would need to have a very gentle low speed stall. (3) The plane would have to be small for transport by motor-cycle. (It sits on the topbox fully rigged and causes a few funny looks as cars are overtaken by a plane). (4) The model had to be capable of aerobatics. (5) I also wanted the finished result to look like a full-size aerobatic plane i.e. bright colours and sponsors' adverts, etc., to help get away from the toy-like look.

The above facts all pointed to a



DOUBLE DUTCH

vintage model's flying habits but most vintage subjects are large and not especially aerobatic. The only way to get a largish area into a small span was to make the model a biplane. This also helps with the slow flight requirement as the slot effect of the two wings helps to keep things controllable at slow speeds. The original model was very aerobatic and would fly quite slowly but it was very heavy and would flick roll if it was hauled off the ground too quickly. A second model was made with a lighter wing loading and a slight change to the tip section and mild washout added. This has led to an aeroplane which, in fresh winds, can be landed with no ground speed at all, and in really windy weather the landing roll is backwards!

If you watch full-size aircraft of this

**Compact airframe
(43.1/2 in. span), bags
of power! That's Steve
Holland's formula for
stunning aerobatic
performance**

type fly you'll notice that they fly on about 1/3rd throttle and only open up to full throttle at the start of vertical manoeuvres, then shut off at the top of loops, etc., so there is not need to tear

around the sky all the time flat out. The engines used so far have been an old HP61 and Super Tigre's wonderful Como 51 with a 10 x 6 or 11 x 5 prop.

Flying notes

Aerobatics tried so far are stall turns, tail slides, slow rolls, figure eights, knife edge, loops, inverted, four and eight point rolls, spins upright and inverted, avalanches and clover leaves. Landings with a biplane can be bouncy affairs if you don't get them quite right. The best approach is using elevator to control speed and flair out with the throttle. Landings are very easy in small fields as the high drag enables steep, slow approaches - quite different to the 40-powered kippers.

On the subject of aerobatics, when trimming the model out if you find that, in a vertical climb it drifts left (or right) simply add side-thrust in the appropriate direction 1/2° at a time - the same also applies to the model drifting off up or down in a vertical climb as the speed drops off; mine needed about 3/4° of upthrust compared to the datum line.

Construction notes

The model is very conventional to build with the fuselage being basically 1/4in. balsa frames with 1/16in. balsa top decking. The wings are basic 'D' box type with a sheet trailing edge. Start by making the two fuselage sides and sticking to the ply doublers. Next, cut out the formers while the above is drying. Bind and epoxy the wire wing mounts to F2 and F2A, then jig the sides square and glue F2, F2A, F3, F6, UC1 and UC2 in place and leave to dry. Glue F1 in place and pull the fuselage sides into the bottom of F1; I used five-minute epoxy. Next, pull the tail end together and glue. The stern post and

