In-line engine version of the plane on the cover!

An easy to build 26¾ inch free flight scale model for ·5–·8 c.c. described by W. Lister, flight tested by W. Newman.

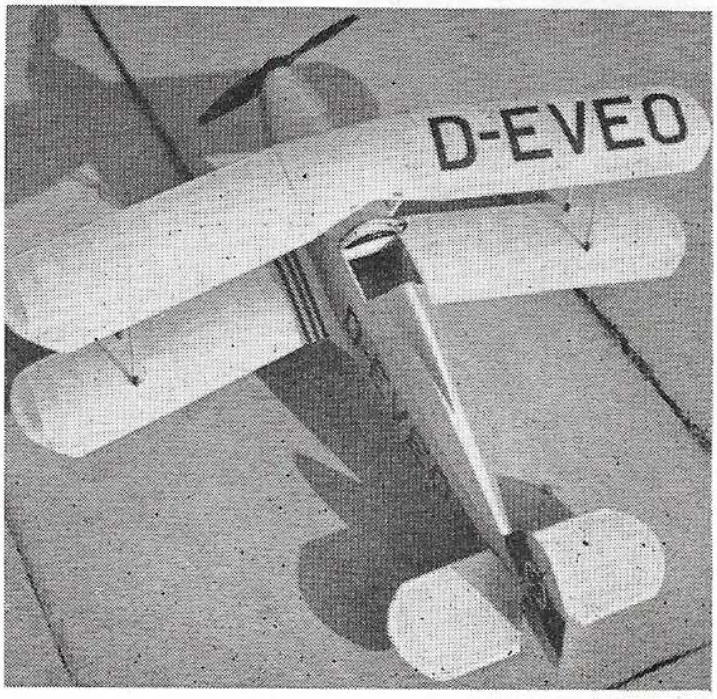
Bucker Jungmeister

DESIGNED IN 1935 as an advanced aerobatic trainer, the Bucker Jungmeister is considered among the world's top aerobatic pilots to be one of the finest aerobatic mounts available. One look at the trim lines of the little Jungmeister, brands it as a machine just asking to be modelled, and what a corker for scale it is. Our prototype, designed by W. Lister was flight proven by Bill Newman who added several practical features to aid and simplify construction.

Start construction by cutting out the basic fuselage sides. Set these out upside down over the plan and fit the cross pieces. Cement in position the formers from the cabin forward and then from the cabin back to the stern post. Secure the bearers and 1/16 in. ply C4's. Shape the cabane struts and bind to the bearers. At this point the pendulum should be fitted and cabin detail added if required. Stringer the fuselage and plank as shown to the rear of the cockpit. Cut two C3's from ¼ in. sheet and cement to engine bearers. Carve the nose block, hollow out to suit motor and bearers and part into two pieces across the thrust line of the cowl. Cement the lower half to the bearers with C1, then add C2 followed by C5, the cowl underside. Spot cement the top of the noseblock in place and then carve the top cowl block to shape, removing both (now as one) and hollow out. Wrap round the 1 mm. ply cowl sides cementing to C1, C2, C3 and C5, and the rear cowl fairing round the lower part of the fuselage.

Build the wing centre sections top and bottom, laying down leading and trailing edge and spars and adding ribs. When set, remove from the plan and bind in the metal tubes. Bind the upper C/S to the cabane struts and cover with 1/32 in. sheet. Shape the undercarriage and bind to the lower wing C/S. Sheet this also with 1/32 in. balsa and cement to the fuselage fairing with 1/32 in. sheet. Lay down the leading and trailing edges and spars of the outer wing panels add ribs and tips and finish. When set, remove from the plan and bind in the locating wire dowels, bending for a sweepback and dihedral angle and the interplane strut fixtures.

Cut the fin and rudder outline from ⅛ in. sheet cementing together over the plan, packing up 1/16 in. Pin in position the ⅛ in. x ¼ in. spars and cement the 1/16 in. x ¼ in. rib blanks in place. When set, remove the fin and rudder from the board. Fit the pendulum rudder horn and tape the two components together. Sand the



unit to section. Repeat for tailplane laying down the outline on 1/16 in. packing. Lay down the $\frac{1}{8}$ in. x $\frac{1}{4}$ in. spar flat on the plan and add the rib blanks. Remove from the plan and sand to shape. Carve and shape the stern block, cutting away the underpart to accommodate the tailplane, (slightly exaggerated to allow variation of tailplane incidence for trim and cement in position over tailplane. Add fin. Sand the whole model and cover with heavyweight tissue. Add the cockpit fairing and other external details. Give two coats of clear dope and finish. The prototype was finished silver overall with red fin and black markings. Those who require a very finely detailed model, besides a proven flyable design should refer to the article on the Bucker Jungmeister in our famous Biplanes series, published in our October 1958 edition, reprints of which are available together with 1/48th and 1/36th scale drawings, price 2s. 6d.

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