



NEW GLIDERS

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To meet the demand of glider enthusiasts, the young group of constructors under the leadership of master glider constructor P. M. Simonov got ready for the manufacture of two all metal gliders KAI-14 and KAI-17.

The models of these gliders have been approved by the state commission, details for assembly have been put into manufacture.

What namely do these gliders represent?

THE KAI-14 GLIDER

It is an all metal soaring-glider of standard class. It is designed in two variants. Record variant with reduced fuselage middle, buffed riveted seams and polished surface.

In series variant the pilot is situated in sitting position. Conventional riveted seams, the glider has a good but not polished surface.

In this way the glider can be used by sports masters for the establishment of records. Glider sportsmen will be able to train on it in soaring flights. Next is given a description of the record variant.

The glider is designed with consideration of newest achievements of glider flying in the USSR and abroad. By its design data it is above the best standard gliders, which participated in the VII championship of the world in 1958.

The high aerodynamic quality of the KAI-14 glider is attained by employing greater aspect ratio, fuselage with small middle, smaller washed surface of air brakes at the trailing edge of the wing and improved landing gear fairing.

In fig. 2 are depicted calculated curves of vertical speeds by the forward flight speed of the KAI-15 glider (upper curve) and better gliders, which participated in the VII world championship. It is evident from these curves, that the aerodynamic curve, characterizing the flight qualities of the KAI-14 glider in comparison with known to us better foreign standard class gliders, differs advantageously from same. The curve is not only higher than all others, but also more sloping, which means, that during the flight of the KAI-14 the glider pilot will find it easier to maneuver the speeds, without fear of losing quality. All other