

MULTI-PURPOSE AIRPLANE MAI-407



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MAI-407

Multi-purpose four-seat twin engine airplane

MAI-407 multi-purpose four-seat twin engine airplane has been designed according to AP-23 Aviation Rule requirements, analog of European CS-23 and American FAR-23.

In addition, while designing the following features were put to airplane concept:

- * spacious cabin allowing to house a crew and passengers dressed in winter clothes but herewith all the rest is achievement of maximum aerodynamic efficiency: a cantilever wing, retractable landing gear, etc.;
- * boarding and deboarding comfort: four car-type doors, the cabin floor height demanding neither step-ladders nor footboard;
- * ability to operate from unprepared runway as well as to have ski or float-type landing gear mounted;
- * proven, including testing in Russia, engine with a qualified dealer accompaniment;
- * efficient ventilation and heating systems.

MAI-407 airplane application may be promising in the following fields:

- * air transportation;
- * initial training and professional selection of pilot personnel;
- * oil and gas pipeline, power lines, forest tract, water reservoirs, etc. air patrol;
- * aerial photographing, instrument monitoring;
- * air tourism.

An important feature is an ability of a multi-purpose single-type airplane employment for all the above tasks. This is provided by a reasonable combination of conflicting factors:

- * maximum cruise and minimum landing speeds;
- * easy flying and sufficient maneuverability;
- * long range and ability of landing on unprepared runways.

It should be noted that the cost of two-engine aircraft MAI-407 does not exceed the cost of single-engine aircraft in its class.

Main Performance Data

Fuselage length 7,45 m
Wing area 14,3 m²
Wing span 11,4 m
Engines Rotax 912, 2x100 h. p.
Max takeoff weight 1250 kg
Useful load 325 kg
Maximum speed of level flight 290 km/h
Maximum rate-of-climb 6 m/s
Maximum cruising altitude up to 3000 m
Maximum payload range 1500 km
Take-off run/ Landing run 150 m/ 180m

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