

I A K - 5 2

TRAINER / AEROBATIC AIRCRAFT

OVERHAULS & UPGRADES



BRIEF INTRODUCTION

IAK-52 is a light aerobatic trainer designed by the Yakovlev design bureau in the former USSR. It is equipped with an M-14P radial aircooled piston engine, rated at 360hp and is fitted with semi-retractable undercarriage.

Length:	7.745 m	Empty weight:	1,035 kg	Max. level speed:	320 km/h
Wing span:	9.3 m	Max T-O weight:	1,355 kg	Service ceiling:	4,000m
Height:	2.7 m	Max g-loading:	+7/-5 g	Max range:	500 km

HISTORICAL BACKGROUND

S.C. AEROSTAR S.A. of Bacau, Romania is the sole producer in the world of all Iak-52 aircraft. The production started in 1978 following the documentation supplied by the Yakovlev design bureau. The production peaked nearly 200 aircraft per year in mid '80s.

All production and flight testing was carried out here, starting from the first prototype.

Along the time, all the service and modernization bulletins issued by the designer were implemented to the factory new aircraft, as well as to the ones already delivered.

Up-to-date over 1,900 aircraft were sold to various customers: airclubs from former USSR, the Air Forces in Romania, Hungary , Vietnam and private customers in USA, United Kingdom, Denmark, Italy, Australia, Spain, Germany, France, South Africa.
Following market requirements, the Iak-52W modernized version was produced, as well as the Iak-52TW.

S.C. AEROSTAR S.A. of Bacau, Romania, an approved supplier of the Romanian Ministry of National Defence, has implemented a Quality Systems complying with ISO 9001:2000 and holds vender approvals for products and services supplied.

OVERHAULS & UPGRADES

S.C. AEROSTAR S.A. of Bacau, Romania performs overhauls of Iak-52 aircraft in service, according to the following stages:

Inspection / reception, dismantling, overhaul, repair and testing of the:

- - airframe, including flight controls;
- landing gear;
- systems;
- aggregates;

Inspection, overhaul and repair of the electrical system, as well as of the instrumentation

- and avionics fitted on the aircraft;

Application of the upgrade bulletins (up-to-date), for the following main items;

- - reinforcement of the wing joint-59 R.
- replacement of the fuselage beam -60 R;
- reinforcement steel strap on the wing spar -107 BD;
- another approximately 100 bulletins for upgrading the aircraft performance

Inspection, overhaul, repair and bench-testing of the M -14 P- piston engine;

- Overhaul and repair of control & measuring devices used in aircraft service;
- Production of spare parts;
- General assembly;
- Ground & Flight testing;
- Painting
- Delivery to the customer.

