



LASTA

Fully acrobatic basic trainer aircraft



LASTA aircraft is intended for initial and basic training of pilots, and for smooth transition to higher-level pilot training.

It is designed with low landing and takeoff speeds, and is developed on the concept of error-forgiving design to make it friendly for inexperienced pilots.

The aircraft was designed in compliance with the Federal Aviation Regulations (F.A.R. – Part 23: Airworthiness Standards), namely:

- **Basic version of the aircraft** is built against the requirements for the acrobatic category, for loads of ($nz_{max} = 6.0$, $nz_{min} = -3$).
- **Armed version of the aircraft** is built against the requirements for the utility category, for loads of ($nz_{max} = 4.4$, $nz_{min} = -1.8$).

The aircraft specification and upgraded avionics enable full pilot training for all applications, including:

- basic flying,
- formation flying,
- air navigation,
- basic elements of night flying,
- basic elements of instrument flying
- basic elements of gunning, rocketing and bombing (GRB).



Aircraft description

Weights and Dimensions

• Maximum takeoff weight	1,205 kg
• Landing weight	1,118 kg
• Dry weight, with equipment	903 kg
• Overall length	7.96 m
• Wing span	9.70 m
• Overall height	2.99 m
• Distance between wheels	2.25 m
• Wing surface area	12.9 m ²

Operational capabilities

• Maximum level speed at S/L	320 km/h
• Stalling speed "flaps down", idle	105 km/h
• Maximum rate of climb at S/L	8.8 m/s
• Maximum roll rate	22°/s
• Service ceiling	6500 m
• Ground run on concrete runway	240 m
• Take-off to 15 m (50 ft)	430 m
• Landing from 15 m (50 ft)	540 m
• Landing run on concrete runway	270 m
• Endurance	3.5 hours

Lycoming AEIO-540-L1B5D Engine

- Six cylinders
- Flat ("boxer") engine
- Direct fuel injection
- Air cooling
- Designed for aerobatic flying
- Hartzell twin-blade propeller
- Maximum continuous output (H = 0 at 2700 r.p.m.) 220 kW

