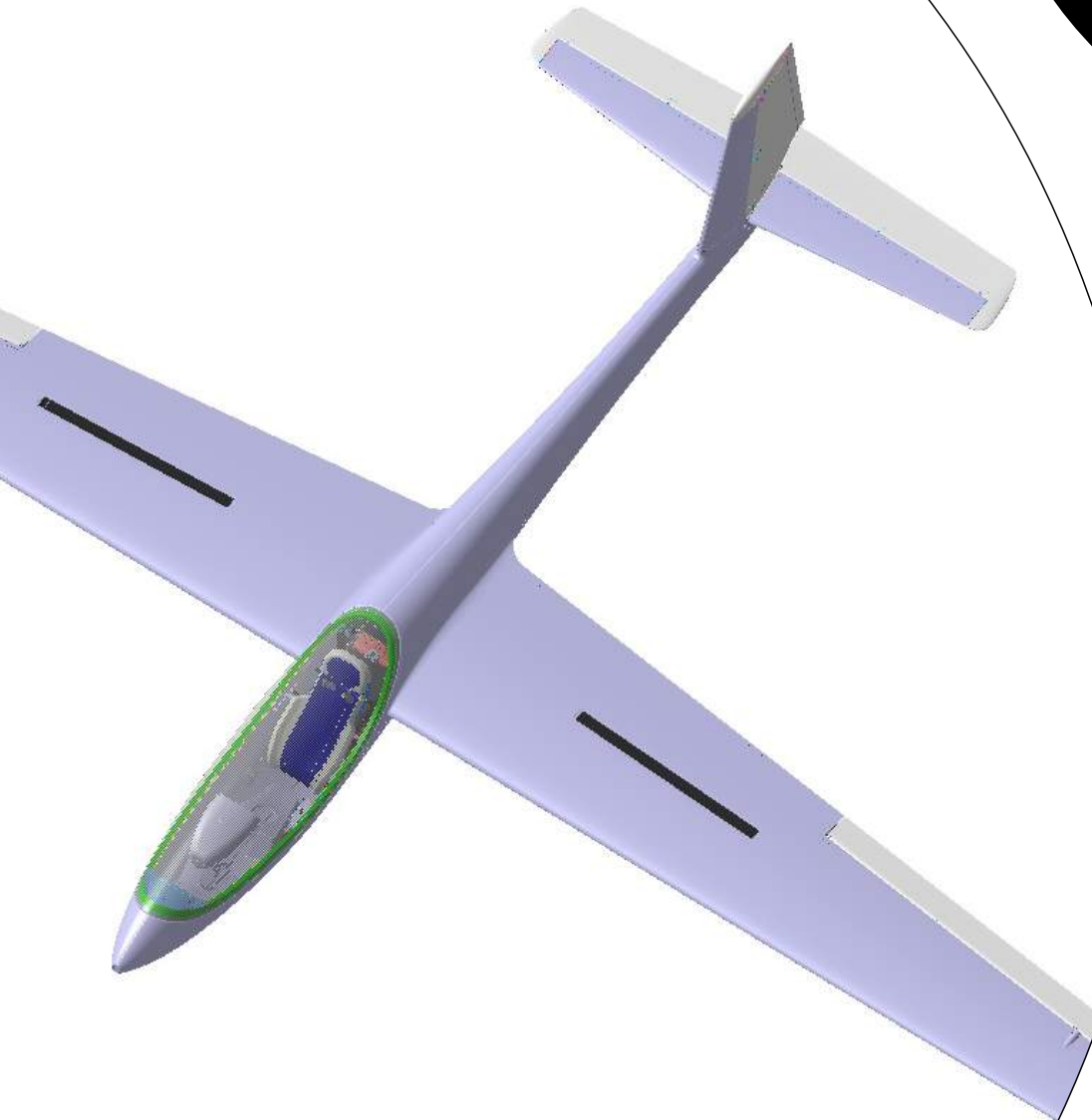


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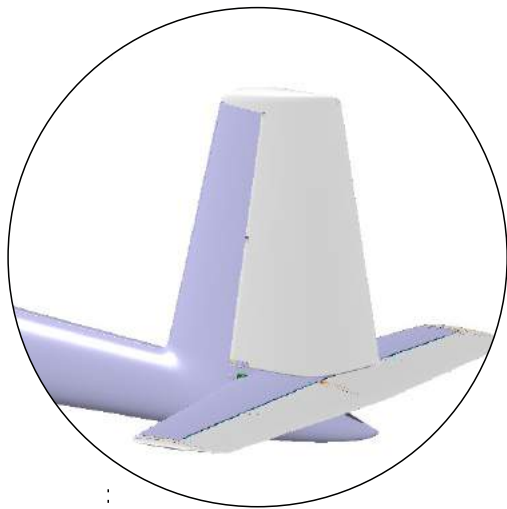


One-seat composite  
aerobatic glider  
AEROBATIC GLIDER I-45 JAY

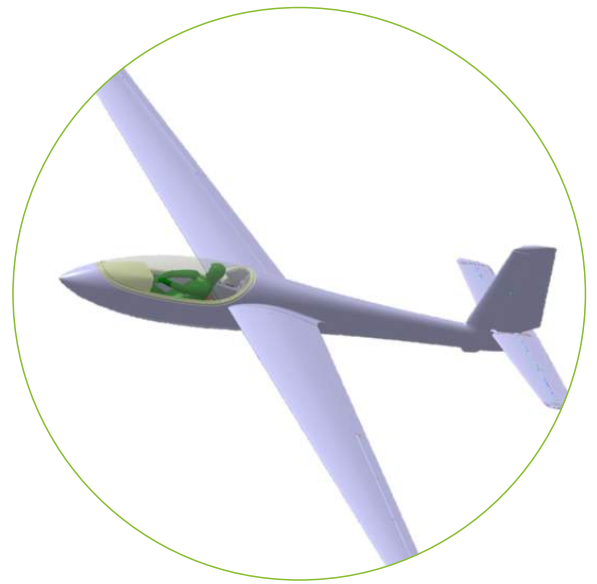
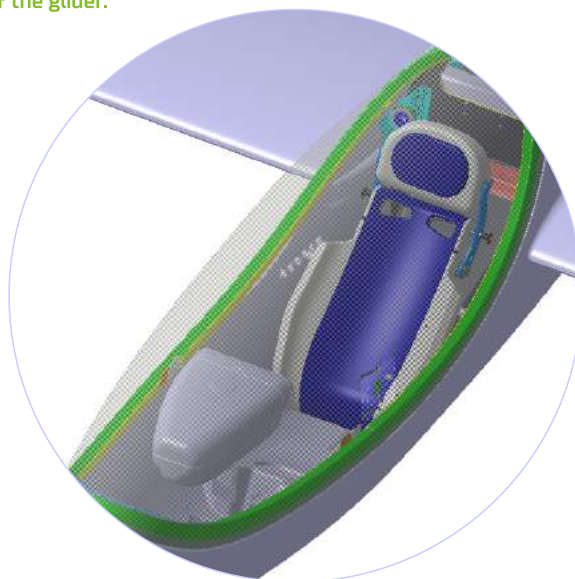
# AEROBATIC GLIDER I-45 JAY

# CHARACTERISTIC

Łukasiewicz - Institute of Aviation offers the development and production implementation of aerobatic glider „I-45 JAY” made in composite technology. "I-45 JAY" glider is an aerobatic glider designed mainly for competitors in gliding acrobatics, aeroclubs and aviation schools. The airframe will be made of composite materials (carbon and glass fibre), mainly using non-autoclave prepregs.



The comprehensive offer of Łukasiewicz - ILOT includes the design and support in the implementation of serial production of the glider.



## TECHNICAL DATA

Weights:	Value
Empty glider weight	300 kg
MTOW	410 kg

Dimensions:	Value
Wing span	12,89 m
Length	6,84 m
Height	1,88 m
Wing area	11,75 m <sup>2</sup>

Performance:	Value
Never exceed speed $V_{NE}$	320 km/h
Design maneuvering speed $V_A$	237 km/h
Rough air speed $V_{RA}$	242 km/h
Stall speed $V_{Si}$	75 km/h

Falling:	Value
L/D ratio at $V_{opt}$	123 km/h : 32
Optimum descent speed $V_{opt}$	123 km/h : 1,23 m/s
Economic descent speed $V_{ek}$	91 km/h : 0,95 m/s



The Łukasiewicz Research Network - Institute of Aviation

offers a wide range of specialized research, engineering services and products. We provide comprehensive solutions, ranging from dedicated analyzes, simulations, engineering design, through the selection, testing and certification of materials and structures, to rapid prototyping and additive manufacturing.

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