



Łukasiewicz
Institute
of Aviation



Application in many industries
– space, defense, aviation

**MOBILE
AUTONOMOUS
LAUNCH PAD
FOR ROCKETS
UP TO 3 T
OF MASS**

CHARACTERISTICS

Launch pad is designed to launch single-stage and multi-stage suborbital rockets with parallel and stacked stages. The product was developed by the Łukasiewicz - Institute of Aviation to launch the ILR-33 AMBER 2K rocket, but the technical capabilities have been extended to rockets of significantly larger scale. The launcher will find application in areas where the construction of permanent launch facilities are not possible. It can also be used as an additional launcher, for example, in case of simultaneous launch of several rockets.



KEY FEATURES

- Designed to work in a wide range of weather conditions.
- Equipped with hydraulic moving support system, allowing autonomous loading and unloading to/from a transport trailer.
- Fully autonomous operation (built-in power sources and control systems).
- Precise lifting of the launcher arm complemented by the unique feature of precise azimuth angle setting.
- Remote communication and adjustments performed from the rocket launcher command center.
- Convenient long-distance land and sea transport, and the possibility of storage in a standard-size container.

TECHNICAL INFORMATION

Parameter	Value
Maximum elevation angle	90°
Launch angle	possibility to remotely adjust the launch azimuth and elevation angles
Maximum mass of the rocket	3000 kg
Maximum thrust of the rocket	80 kN



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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