

ELI

AIRBORNE SOLUTIONS

Eli Airborne Solutions is a branch of Eli Ltd that specializes in design, development and manufacturing of Unmanned Aircraft Systems (UAS) in Estonia for both military and commercial applications.

The company provides complete integrated UAS solutions which can truly satisfy the challenging requests of its customers in the homeland security domain, from specific command and control equipment, to development of unmanned aircrafts and communication services.

Equipped with visible or infrared camera, our UAV systems offer high-level image processing capability, real time stabilization, detection and monitoring of target locations.



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THE EQUIPMENT THAT GIVES YOU AN ADVANTAGE

UAV Launcher PL-40

Description

The UAV **pneumatic launcher** has been developed to **accelerate UAV-s** and other aircraft with MTOW up to **40kg** and launch them at speeds up to **25m/s**. The launcher is **light-weight**, battery-operated and is quickly assembled. The system is easily portable in two special **rugged** cases. Custom carriage rods can be designed based on clients UAV specifications.

Specifications

Launch angle	11 degrees
Overall rail length when assembled	5m
Rail length when disassembled	1,28m
Weight of catapult set, 2 boxes	Total 56kg
Launcher case external dimensions	1480x440x170mm
Compressor case external dimensions	650x325x520mm
Maximum plane mass	45kg
Maximum allowed launch velocity	25m/s (meter per second)
Puller configuration aircraft	YES
Pusher configuration aircraft	YES
Typical set-up time	5min
Compressor unit battery	2X Makita@14.4V Li-Ion battery 3Ah



Pressure (bar)	Plane mass (kg)					
	10	15	20	30	40	45
	Launch velocity (m/s)					
5	18,4	15,1	13,1	10,7	9,4	8,9
6	20,2	16,5	14,3	11,7	10,3	9,7
7	21,8	17,9	15,5	12,6	11,2	10,5
8	23,3	19,1	16,5	13,5	12,0	11,2
9	24,8	20,3	17,6	14,3	12,7	11,9
10	26,1	21,3	18,5	15,1	13,4	12,6
11	-	22,4	19,4	15,8	14,0	13,2
12	-	23,4	20,3	16,5	14,6	13,8
13	-	24,3	21,1	17,2	15,2	14,3
14	-	25,3	21,9	17,9	15,8	14,9
15	-	26,1	22,7	18,5	16,4	15,4
16	-	-	23,4	19,1	16,9	15,9

Actual launch speeds may vary depending on the wind speed, aircraft engine propulsion force and proper support by grounding anchor.



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