

THE EQUIPEMENT THAT GIVES YOU AN ADVANTAGE

UAV Launcher PL-120

Description

The UAV **pneumatic launcher PL-120** has been developed to **accelerate UAV-s** and other aircraft with MTOW up to **160 kg** and launch them at speeds up to **35m/s**. The launcher is light-weight, battery-operated and is quickly assembled. The system is easily portable in special rugged cases. Custom carriage rods can be designed based on clients UAV specifications.

Specifications

Launch angle	6 degrees
Overall rail length when assembled	12.8m
Rail length when disassembled	1.4m
Weight of catapult set (5 boxes)	Total 410 kg
Launcher case external dimensions(3 boxes)	1600x550x360mm
Compressor case external dimensions(2)	360x600x1200mm
Maximum plane mass	160 kg
Maximum allowed launch velocity	35 m/s (meter per second)
Puller configuration aircraft	YES
Pusher configuration aircraft	YES
Typical set-up time	15 min
Compressor unit battery	2 X Makita®18V Li-Ion battery 6Ah



Approximate launch velocities versus plane mass and launching pressure

Pressure (bar)	Plane mass (kg)								
	80	90	100	110	120	130	140	150	160
	Launch velocity (m/s)								
8	25.6	24.2	23.0	22.0	21.2	20.4	19.8	19.2	18.6
9	-	25.7	24.4	23.4	22.4	21.7	21.0	20.4	19.8
10	-	-	25.8	24.6	23.7	22.8	22.1	21.5	20.8
11	-	-	-	25.8	24.8	23.9	23.2	22.5	21.8
12	-	-	-	-	25.9	25.0	24.2	23.5	22.8
13	-	-	-	-	-	26.0	25.2	24.5	23.7
14	-	-	-	-	-	-	26.1	25.4	24.6
15*	-	-	-	-	-	-	-	26.3	25.5
16*	-	-	-	-	-	-	-	-	26.3
Actual launch speeds may vary depending on the wind speed, aircraft engine propulsion force and proper support by grounding anchor.									
* Auxiliary pressure source up to 16bar needed. Contact seller for more details.									



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ELI is an Estonian engineering company that has its roots in developing and producing military simulations equipment.

We have been creating custom tailored solutions for the most demanding end users in the defence sector since 1995.



Each UAV requires a custom carriages. Our **greatest strength** lies in the **rapid** and **personalized** development of **custom carriages** for every drone.

