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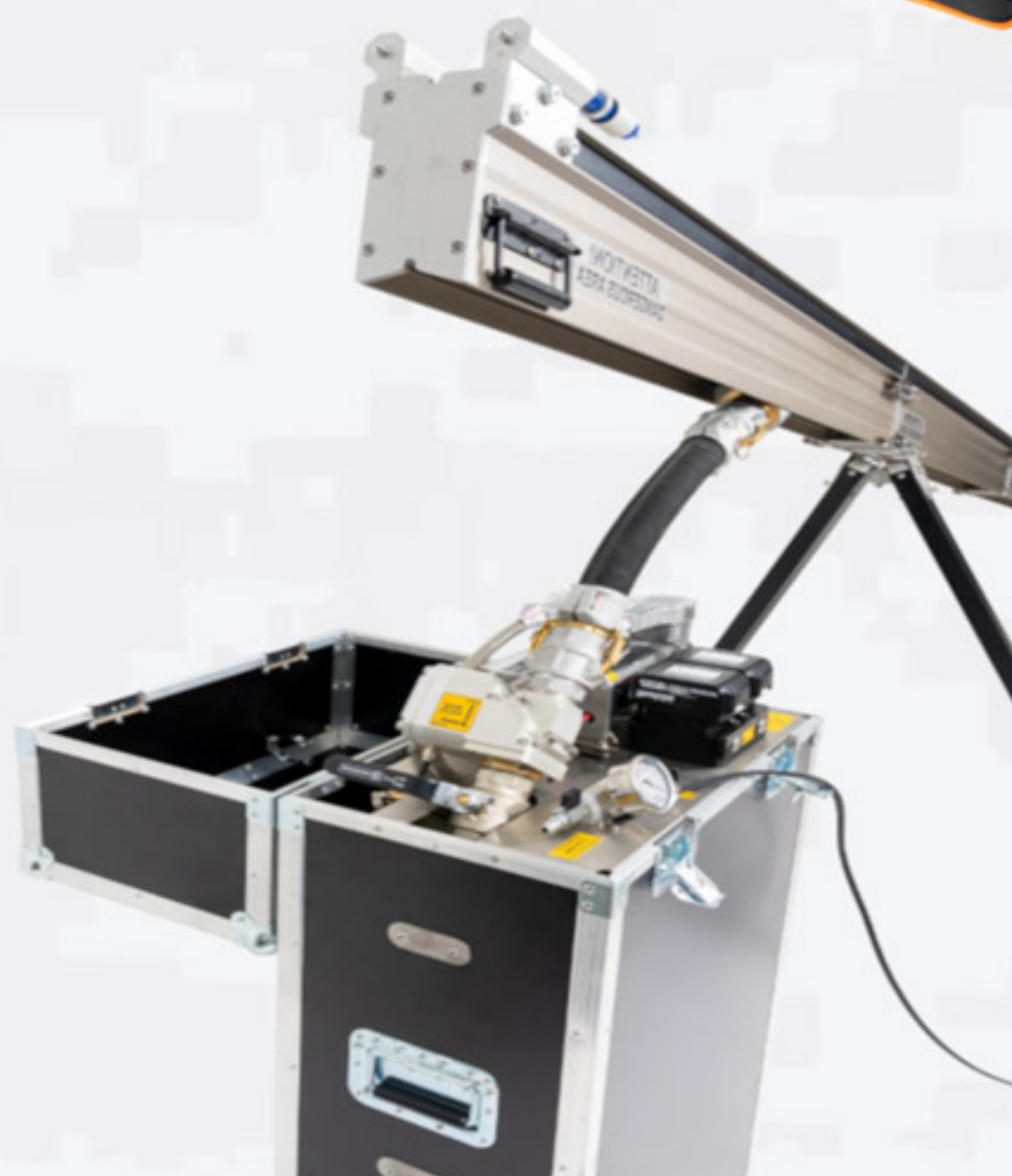
# UAV Launcher PL-80

## Description

The UAV **pneumatic launcher PL-80** has been developed to **accelerate UAV-s** and other aircraft with MTOW up to **100 kg** 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 special rugged cases. Custom carriage rods can be designed based on clients UAV specifications.

## Specifications

<b>Launch angle</b>	11 degrees
<b>Overall rail length when assembled</b>	6.6m
<b>Rail length when disassembled</b>	1.4m
<b>Weight of catapult set (3 boxes)</b>	Total 236 kg (91+90+55)
<b>Launcher case external dimensions</b>	1580x530x360mm
<b>Compressor case external dimensions</b>	360x590x1180mm
<b>Maximum plane mass</b>	100 kg
<b>Maximum allowed launch velocity</b>	25 m/s (meter per second)
<b>Puller configuration aircraft</b>	YES
<b>Pusher configuration aircraft</b>	YES
<b>Typical set-up time</b>	7-10 min
<b>Compressor unit battery</b>	2 X Makita®18V Li-Ion battery 6Ah



Pressure (bar)	Approximate launch velocities versus plane mass and launching pressure								
	Plane mass (kg)								
	25	30	40	50	60	70	80	90	100
5	24,5	22,7	20	18,1	16,6	15,5	14,6	13,8	13,1
6	26,6	24,6	21,7	19,6	18,1	16,8	15,8	14,9	14,2
7	-	26,4	23,3	21,1	19,4	18	17	16	15,3
8	-	-	24,9	22,5	20,7	19,3	18,1	17,1	16,3
9	-	-	26,4	23,9	22	20,4	19,2	18,2	17,3
10	-	-	-	25,1	23,1	21,5	20,2	19,1	18,2
11	-	-	-	-	24,2	22,5	21,2	20	19
12	-	-	-	-	25,3	23,6	22,1	20,9	19,9
13	-	-	-	-	-	24,4	22,9	21,7	20,6
14	-	-	-	-	-	25,2	23,7	22,4	21,3
15*	-	-	-	-	-	-	24,5	23,1	22
16*	-	-	-	-	-	-	25,1	23,8	22,6

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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## UAV Launcher PL-80

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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.

