



UNMANNED PLATFORMS
AND SUBSYSTEMS



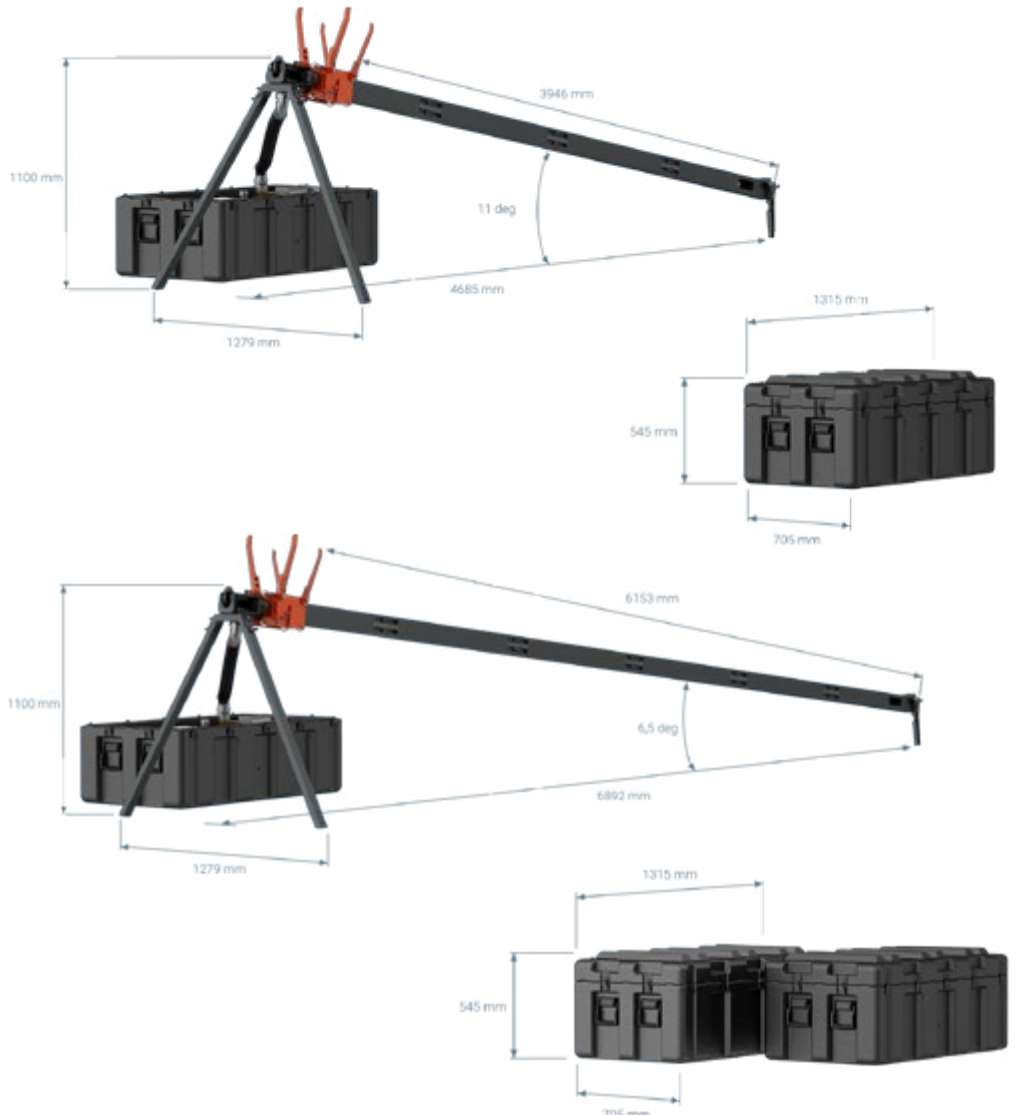
- 6kJ or 12kJ man-portable catapult
- 24m/s maximum speed
- Designed for 1000s of launches
- Simple and quick assembly
- Smart safety features
- Well defined maintenance schedule
- Can be factory customized for client's UAVs

Datasheet v 2.1

6kJ & 12kJ PORTABLE PNEUMATIC CATAPULT



The portable pneumatic catapult is designed for launching the unmanned aircraft vehicles of up to 60kg takeoff weight. The catapult features a rugged aluminum structure, which can be disassembled into a man portable transportation case. UAV Factory offers carriage customization services for client's unmanned aircraft vehicles.



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Remote control box with advanced safety features: audible alarm, voltage and pressure displays, permanent launch counter.



Integrated compressor with reverse polarity protection, thermal shutdown and pressure relief valve.

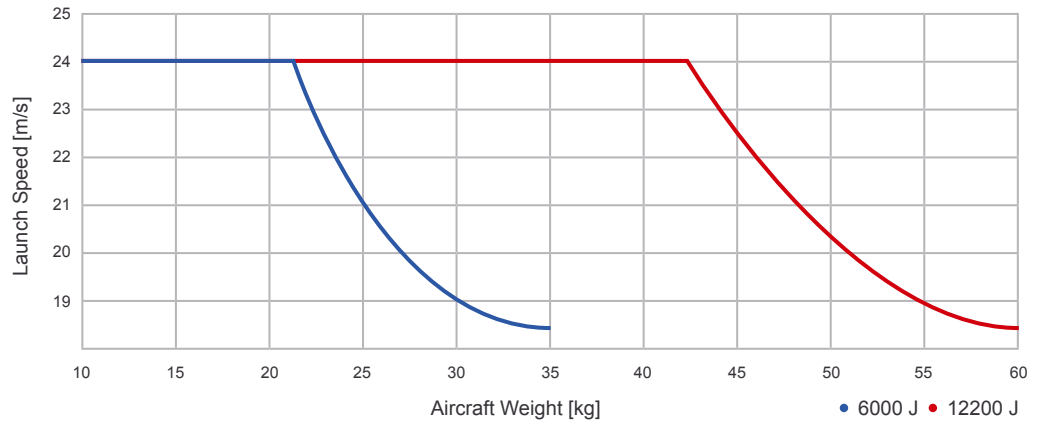


Reliable carriage with foldable legs, rope length adjustment and safety pin. Carriage is made of hard anodized aluminum for maximum wear resistance.

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Maximum launch speed graph:



Options and accessories:

	Operation and maintenance training. UAV Factory offers one-day catapult operation and maintenance training. Program covers: assembly, disassembly, safety procedures, pre-launch procedure, maintenance procedures. Training includes both classroom session and hands on catapult operation session. Training can be performed at company's facilities in Europe, USA as well as client's facilities.
	Training dummy for the Penguin B UAV, replicates aircraft physical parameters. Training dummy is used for personnel training as well for maintenance validation. UAV Factory offers custom training dummy development for client's unmanned aircraft.
	Maintenance Kit. Kit includes all necessary components that need to be replaced at regular maintenance interval every 100 launches.

Specifications:

Parameter	6 kJ	12 kJ
Rail Length	4 m / 13.1 ft	6 m / 19.7ft
Maximum Launching Energy	6000 J	12 200 J
Maximum UAV Weight	35 kg / 77.2 lbs	60kg / 132 lbs
Maximum Launch Speed	24 m/s / 44 kts	24 m/s / 46 kts
Maximum Launch Pressure	10 Bar / 145 Psi	12 bar / 174 Psi
Packaging	Rugged case	Rugged Case
Packed Weight	110 kg / 242.5 lbs	1st case 80 kg, 2nd case 85 kg
Packed Size	1313 x 704 x 543 mm 51.7 x 27.7 x 21.4 in	2 cases 1313 x 704 x 543 mm 51.7 x 27.7 x 21.4 in
Input Voltage	11-16 VDC	11-16 VDC
Input Current	20 A	20 A
Fuse Protection	30 A	30 A
Typical Fill Time	<10 min	< 20 min
Operational Temperature	-20°C to +50°C	-20°C to +50°C