

JB LargeLauncher™

Launcher 150-600kg UAV's



Large UAV Launcher

- ▶ no need for personnel intervention when launching
- ▶ 600 kg UAV up to 30m/s (108km/h - 67mph).
- ▶ compressed air max 10bar (145psi)
- ▶ launch-angle hydraulically adjustable
- ▶ electronic safety system up to SIL2
- ▶ multivoltage, AC and DC
- ▶ trailer according to relevant national standards
- ▶ redundant air compressor system
- ▶ repeatable launching 12-20minutes

JB Large Launcher™ developed, tested and regularly used is made for the larger UAV's – typical 150-600kg (330-1 323lb (pound)). A 600 kg UAV can be launched to an approximate maximum speed of 30m/s (108km/h - 67mph).

The launcher is completely remotely operated without any need for personnel intervention when charged/launching.

Approx. time (typical) between each launch is 12-20 minutes, depending on type UAV.

The electronic control and safety system ensures safe remote operation in addition to including a built-in interlock to prevent personal errors. The safety system possesses safety functions up to SIL2. Multivoltage, 12-24VDC / 100-250VAC 50/60Hz.

The pneumatically driven cylinder is moving the trolley along launcher runway. LargeLauncher™ has hydraulically adjustable feet to adjust runway angle of launching. Launcher runway is split in two, where the aft part is hinged against main structure of Launcher and folded out, ensuring easier road transport.

Compressor(s) for charging air reservoirs are normally petrol driven, typical set-up is 2 off 20 Hp Compressors both to reduce time between launching in addition to ensuring redundancy/backup.

Launcher structure is installed on a "Truck Axle" with pneumatic brakes, ABS and 24V lights (other options available). Towing point is made interchangeable either with a standard VBG or a NATO type (or other relevant national standards).

Remote Control Panel

**About JB OKT Defence**

A defence technology company specializing in advanced launch and support systems for unmanned aerial vehicles (UAVs) and other mission-critical equipment.
OKT - Operational support, Knowledge, Trust

About JB Group

JB Group is a multidisciplinary supplier offering innovative and sustainable solutions tailored for the global energy industry. Office at Bryne (Stavanger) and Houston, Texas – the group provides comprehensive expertise spanning documentation, engineering, project management, electrical systems, automation, hydraulics, diesel power, and mechanical services

Dimensions and weight

Length	17m / 670inch
With	2,1m / 83inch
Height	2,2m / 87inch
Weight	Ca 6800kg / 15 000lb (pound), depending on options
Transport dimensions	12,1m / 476inch 8000kg / 17 600lb (pound), depending on options

Operational data

UAV type	Thrust or pull, turbine or propeller based
UAV dimensions	Wing span up to 6 m / 236inc, maximum weight 600kg / 1 322lb (pound)
Working Pressure	3-10bar / 43-145psi
Maximum launch-angle	8deg
Operational Temperature	-20 ... 50°C / -4 ... 122°F
Climate conditions	No restrictions within the temperature range
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Material specifications – main components

Main Structure	Carbon Steel and Aluminum
Cylinder	Composite
Air Tanks	Carbon Steel. According to ISO-3834-2 and 15614-1 with 3 rd party verification
Rope	Low Stretchable Nylon Rope

Control and Safety

Power supply	12-24VDC / 100-250VAC 50/60Hz
Control-system	Touch-screen, remotely operated valves and regulators
Safety	Failsafe step-by-step operation. Up to SIL2

Towing Trailer data

Axle	Can be adjusted to most national requirements
Wheels	To be agreed
Brakes	Standard Wabco dual air connection to disc brakes in accordance with 71/320/EEC/ECE-reg. 13, series 5. Equipped with Automatic Stability System (ABS) most national standard can be adopted
Electrical system	Plug/pin layout and lights according to national standards
Towing	Interchangeable NATO ring hook type or national specific