



Lightweight launcher

Air vehicle launchers

QinetiQ's lightweight launcher is a free standing unit based on a launch rail with an overall length of 6.22 metres. When deployed the rail assumes a launch angle of 15°. The air vehicle is mounted on a trolley that is free to move along the rail. The trolley is driven through a "Dyneema" rope by means of four elastic powerbands tensioned with an electric winch mounted at one end of the rail.

Optionally, fixed to one side of the rail is a remote engine starter for the air vehicle engine. This is powered by the same 12 volt rechargeable battery supply that powers the launcher winch. Once an engine has been started the starter mechanism swings away from the aircraft to allow launching to take place. A removable propeller guard can be fitted around the propeller of the air vehicle to ensure operator safety if engine maintenance is required whilst it is running.

The launch rail can be folded to facilitate transport and storage.

Key features

Typical launch speeds to 20 metres/second

Typical air vehicles to 20kg mass

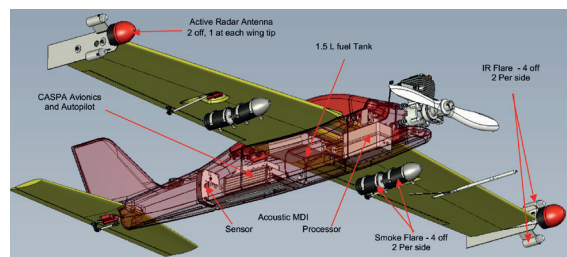
Rugged design and simple operation

Easy maintenance and repair

Low acquisition cost

Rapid deployment

Fast turnaround time



Lightweight Launcher Specifications

Physical

Overall length	6.22 m (20ft 5in) - rail deployed
Packed size	290 cm x 60cm x 80cm (9ft 6in x 1ft 11in x 2ft 7in)
Gross weight	108 kg (290 lbs)

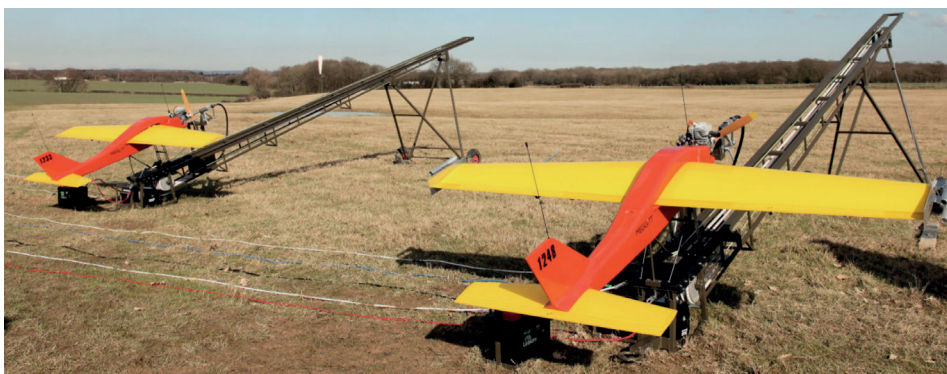
Performance

Max launch velocity	20 metres/second (72 km/hr)
Max air vehicle mass	20 kg (53.5 lbs.)

Other features

Simple remote operation for safety. 12 volts dc operating voltage. Optional remote engine starter.

Note: Due to continuous process improvement, specifications are subject to change without notice



Collaborating with QinetiQ

At QinetiQ we bring organisations and people together to provide innovative solutions to real world problems, creating customer advantage.

Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

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