

***TACTICAL MANOEUVRE
FOR POLICE AND
SECURITY FORCES***

SECURITY SYSTEMS

Pearson Engineering's security systems provide Police and Security Forces with advanced capability in the face of increasingly militarised, unpredictable and spontaneous threats. With the ability to manoeuvre inside buildings, our high-mobility, robotic platform can carry equipment to provide protection, support and presence.

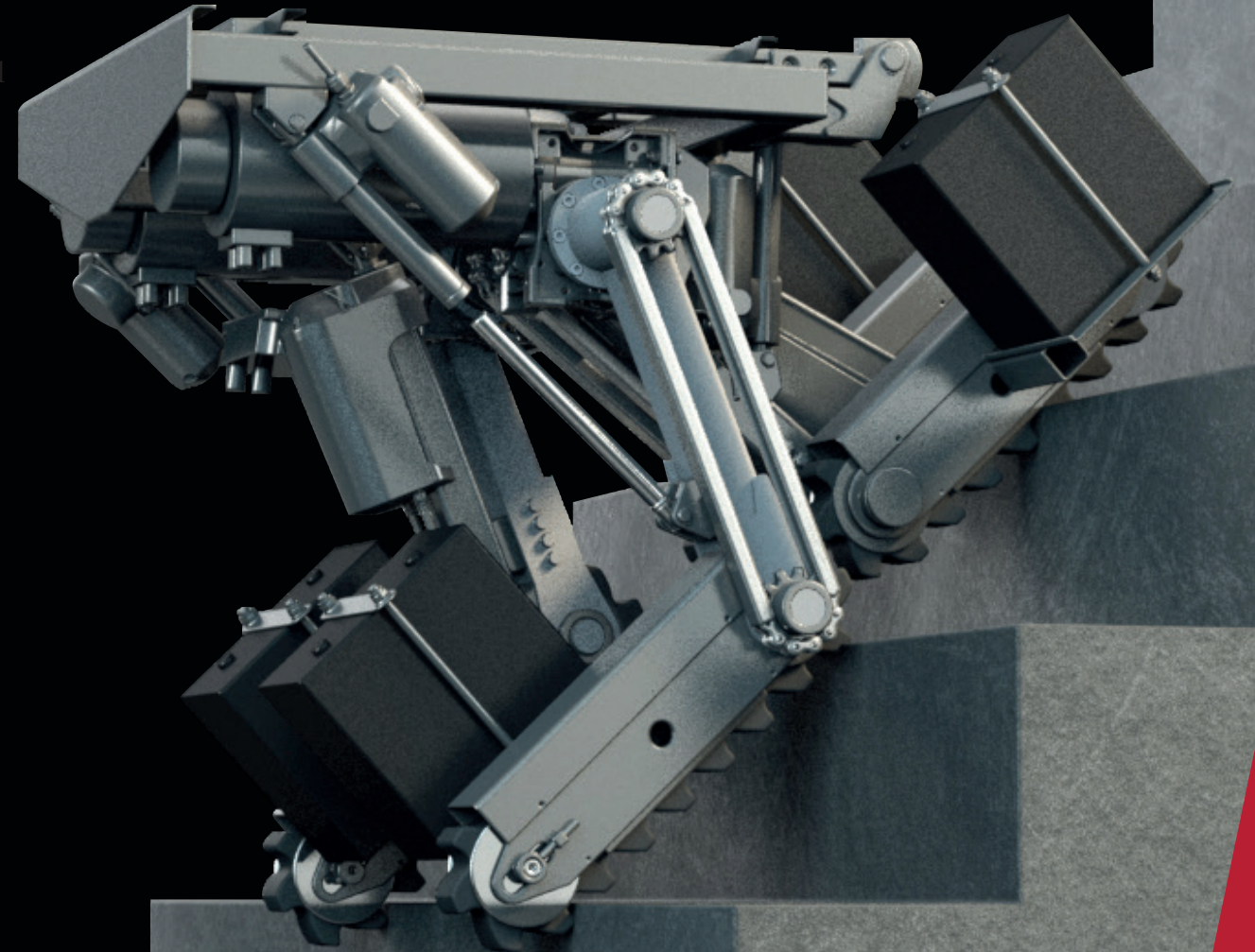
Specialised counter-terror systems

Designed to support joint operations

Operational support to existing tactics

Enhanced capability for special operations

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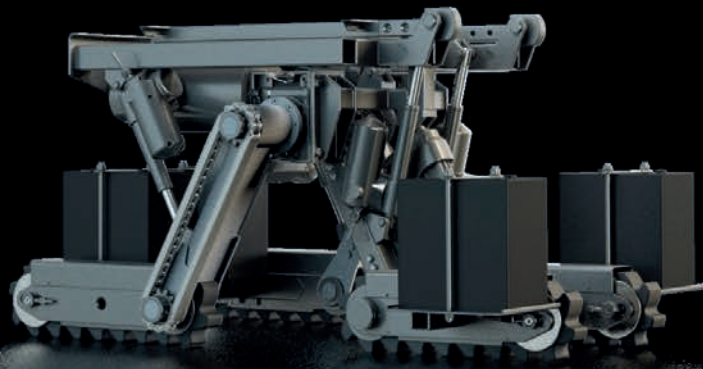


**APE-X: MULTI-PURPOSE,
HIGH MOBILITY PLATFORM**

As the conflict environment changes, where we find high threat and high complexity scenarios on our city streets, we must equip our Police and Security forces with the tools they need to adapt to uncertain circumstances.

APE-X is a multi-purpose, high mobility platform which provides Forces with the tools they need, when they need them to counter ballistic threats and challenges to manoeuvrability.

It is capable of carrying a significant mass up and down stairs and over obstacles. Its sophisticated track system allows the base to move around a building with ease, carrying protective shields or equipment to places too dangerous for human intervention.



**INTERCHANGEABLE
ATTACHMENTS**



**BARRICADE /
COMMAND AND
CONTROL POST**

When integrated with a telescopic, adaptable barricade, APE-X can be used to position barricades or create a safe environment in an open space for Command and Control.



**BREATHING
APPARATUS
CARRIER**

Used simply as a mule, without attachment, APE-X can carry significant payloads to provide tactical advantage, such as endurance in smoke filled environments.



**MANIPULATOR
ARM AND POWER
TOOLS**

APE-X can support security forces by accessing areas which may be too dangerous for humans, to drag, carry and pull, as well as opening doors and gaining access.



STRETCHER

Fitted with a stretcher, or laying shields flat, APE-X may be used as an additional resource to rescue those who have been injured or who cannot escape.



LIGHTING RIG

For urgent operations where temporary infrastructure is needed rapidly.



**HOSTAGE
NEGOTIATION**

APE-X can be used as a neutral, non-threatening platform to deliver or carry assets used in hostage negotiation.

IADD: INTELLIGENT AREA DENIAL DEVICE

Pearson Engineering's Intelligent Area Denial Device (IADD) is a small unit designed to be emplaced within the ground to arrest suspect hostile vehicles. The technology within the device allows it to discriminate between personnel and vehicles, delivering safe and reliable capability which can be tuned to the needs of the security environment.

KEY APPLICATIONS

Pearson Engineering's IADD is designed for emplacement around vulnerable locations or locations of specific hostile interest.

Vehicle Disruption

A tyre penetrating barb is deployed to rapidly deflate a pneumatic tyre and reduce the vehicle's tempo.

Vehicle Arrest

A tyre penetrating barb, used in conjunction with entanglement lines and a suitable anchor system, is used to arrest an approaching hostile vehicle, slowing the vehicle to a stop and preventing it from continuing along its intended course.

OTHER APPLICATIONS

The technology contained within the Pearson Engineering IADD allows for a range of other tactical uses:

Vehicle Marking

An approaching hostile vehicle could be marked with a visual marker or other such device to enable future identification.

Vehicle Tracking

An approaching hostile vehicle could be tagged with a GPS tracker to enable future tracking and location monitoring.

Vehicle identification & Monitoring

An approaching hostile vehicle could be identified and monitored via means of a mini-UAV, camera and/or microphone.



INTELLIGENT TECHNOLOGY

The device 'intelligence' allows for it to discriminate between personnel and vehicles. The device utilises a range of sensors and indicators with appropriate filtering and algorithms which can be 'tuned' to suit the installation and target threat. The device can also be 'armed' or 'disarmed' by the operator, either remotely or locally, to allow or prevent the passage of vehicles, i.e. for 'friend' or 'enemy' vehicles.



FEATURES

- Used to automatically deny vehicular access to a specified route or area on demand to protect against suspected hostile vehicles
- Ability to arrest a vehicle up to 3 tonnes of mass travelling at 50mph or under
- Rapid emplacement and activation
- Tuneable to allow for friendly vehicle approach
- Multiple sensors used to detect and confirm the presence of a suspected hostile vehicle
- Ability to 'arm' and 'disarm' the device
- Ability to discriminate between pedestrians and vehicles to prevent unintended harm or injury
- Arrests the suspected hostile vehicle by entangling the drivetrain with lines anchored either beneath the ground or to a solid surface
- If the device needs to be abandoned, it can be rendered safe by mechanical or electrical means from either a local or remote location
- Developed for military use, configurations for Security applications currently in development.



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