

Bridge Launch Mechanism

Pearson Engineering's Bridge Launch Mechanism provides vehicles with the capability to launch and recover assault bridges from under armour.



BRIDGE LAUNCH MECHANISM

The Pearson Engineering Bridge Launch Mechanism is fitted to the front of the vehicle and allows an assault bridge to be stowed, launched and recovered using a single system. Provided as a vehicle attachment, like any other equipment in Pearson Engineering's range, the Bridge Launch Mechanism provides bridging capability without the host vehicle needing to be a dedicated bridge layer.

The Bridge Launch Mechanism is controlled from under armour and it can usually be launched or recovered in less than two minutes (size dependent). The system is lightweight and it is specifically designed to minimise the impact on vehicle mobility by keeping the bridge and bridge launch mechanism low and close to the vehicle hull when in its transport configuration.

During launch and recovery, the foot of the Bridge Launch Mechanism remains in firm contact with the ground, reducing the load transfer onto the host vehicle and ensuring a stable launch platform.

Hydraulic cylinders are used to control the launch and recovery cycle as well as the stabilising clamps.

SCALABLE BATTLEFIELD MOBILITY

Integration with the vehicle is made via a Pearson Engineering Direct Fit Interface or Pearson Engineering Quick Connect.

The most suitable integration method depends on the mission requirements and vehicle capabilities. Our engineers will work closely with end-users and vehicle Original Equipment Manufacturers (OEMs) to define the most appropriate route. Decisions are often based on hydraulic and electrical availability as well as the required role of the vehicle.

Our interfaces enable vehicles to be configured to undertake wide ranging combat engineering, mobility and counter-mobility tasks. In this way, a single vehicle can be used to undertake breaching, earth moving and bridging activities to enhance operational flexibility.

Our approach is called 'Scalable Battlefield Mobility' and it intends to provide tactical advantage to our customers.

PRODUCT CHARACTERISTICS

- + Rapid launch and recovery of assault bridging from under armour
- + Tactical flexibility with the possibility to use any suitable vehicle to launch an assault bridge
- + Operational efficiency - fewer dedicated vehicles are required, reducing logistics and training burden
- + Compatible with a wide range of bridges
- + Designed to minimise the impact on vehicle mobility to keep pace with operations

SUITABLE FOR:

- + Heavy weight tracked vehicles
- + Medium weight tracked vehicles
- + Medium weight wheeled vehicles

