



## ELECTRO MECHANICAL RAPTOR EM RANGE



Part of Heald's new electro mechanical range, the EM Raptor combines the high security of a roadblocker with the flexibility of a shallow mount bollard. Based on our existing hydraulic bollard, the EM Raptor comes with many additional benefits.

Tested to both UK PAS 68 and US ASTM standards, not only will it halt a 7.5 tonne truck travelling at 80 kph it will also continue to function following the impact.

Some of the benefits of the Electro Mechanical Raptor include:

- No HPU
- No hydraulic oil, therefore there is no chance of an oil spillage
- No hydraulic runs
- Smaller cabinet to house electric controls

The EM Raptor only requires a single phase power supply (we can provide a 3 phase power supply if required), reducing the amount of electricity used in comparison to our hydraulic unit. The motor, which is IP69 rated, is enclosed in the EM Raptor unit. The EM Raptor also has a sealed gearbox drive unit with slipclutch protection. The product also has IP69 limit switches.

The EM Raptor has a heavy duty industrial drive chain mechanism and is also a 100% duty rated product. It is inverter driven for aided longevity and smooth operation.

The Electro Mechanical Raptor has a standard operation speed of 6 seconds (up and down). The EM Raptor can also be supplied with emergency fast operation. This means that the EM Raptor will operate quicker in case of an emergency.

There can be a long distance from the product to the electric control panel, which can also be mounted in a building if required.



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<b>Performance Rating</b>	ASTM: M50-P1 Zero Penetration (SD-STD2.01 K12) ASTM: C40 P1 Zero Penetration PAS68 Blocker/Bollard V/7500[N3]/80/90:3.3/18.9
<b>Raised Height</b>	985 mm
<b>Width</b>	380 mm
<b>Composition</b>	Profiled steel plate Welding in accordance with BS 4872-1:1982 Manufacturing in accordance with BS 6571
<b>Motor</b>	IP69 rated.
<b>Drive System</b>	Electro mechanical drive system complete with drive protection device
<b>PLC Control Voltage</b>	24 V DC
<b>Options</b>	Emergency Fast Operation (EFO) Hydra remote control and monitoring Trace heating LED lighting High security lock out valve
<b>Normal Raise Speed</b>	6 seconds approx
<b>EFO Speed</b>	3 seconds approx
<b>Duty Cycle</b>	100% rated.
<b>Finish</b>	Galvanised then primed and painted grey or yellow. Other colours available on request.
<b>Sitework</b>	Unique design does not require steel reinforcement of concrete for fitting No pre-cast pit required. Various levels of installation service available. Please contact Heald for further details. Detailed drawings, technical guidance and full maintenance offered.
<b>Patent Numbers</b>	GB Patent Number: GB2479722. European Patent Number: EP2561140. US Design Patent Number: US D715, 174 S. US Patent Number: US 8, 979, 419, B2.

*Due to a continuous program of development Heald reserve the right to change specifications at any time.*