

# HEALD®

## HT1 ELECTROMECHANICAL

# RAPTOR

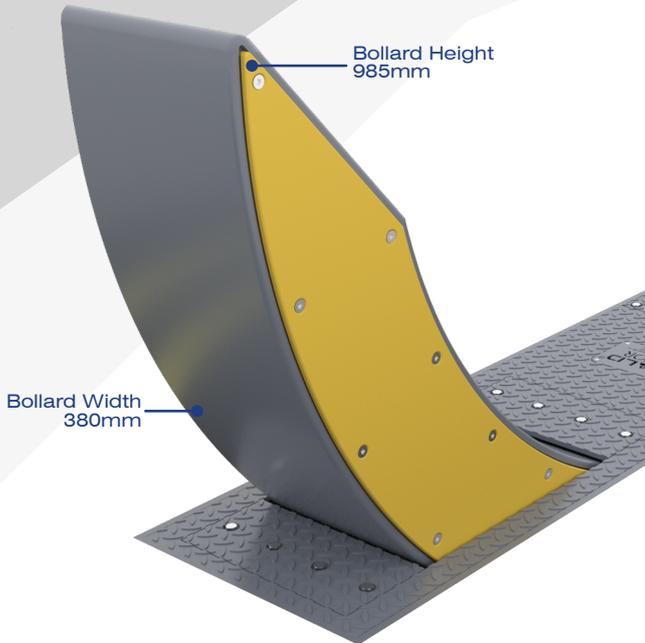
Heald's Raptor, the most resistant bollard of its type, combines the high security of a road-blocker with the flexibility of a shallow mount bollard.

The Raptor provides an alternative to the traditional circular bollard, with proven reliability at high security sites for over 10 years.

Due to its unique design & its electro-mechanical drive system, this model provides many environmental benefits over the traditional hydraulic system. With no requirement for hydraulic oil or noisy power packs this is a more sustainable solution.

The Raptor can be integrated with various access control systems to provide quick and convenient access to authorised vehicles and emergency services. For the highest security sites, the Raptor is available with Emergency Fast Operation (EFO), which raises the Bollard in less than 3 seconds for immediate protection against an imminent threat to the site.

The Raptor requires an excavation depth of only 480mm, with no additional rebar or pre-cast concrete required.



### Crash Test Results

Triple tested as a standalone bollard, providing protection to any size opening.

Continued Operation After Impact.

Classification

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



### Operation

A motor & gearbox driven mechanism with manual hand wind power fail system.

Electromechanically operated, providing advantages over Hydraulically operated products such as,

- Environmentally Friendly (reduced carbon footprint)
- Smaller Cabinet
- No Hydraulic oil

415VAC Three phase, earth & neutral, 50Hz Alternatives available to suit site requirements.

### Safety Features Available

Induction Loops

### Operating Speeds

Standard Operation 6 seconds approx

EFO Operation 1.5 seconds approx

### Options

Heat Trace, Emergency Fast Operation (EFO), Anti-slip coating, Various Access Control options.

### Please contact for further details:

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Granted GB Patent GB2479722  
Granted US Patent US D715,174S;  
Granted US Patent US 8,979,419,B2;  
Granted EP Patent EP2561140  
(GB, FR, SE, NO, NL, IT, DE, TR)

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

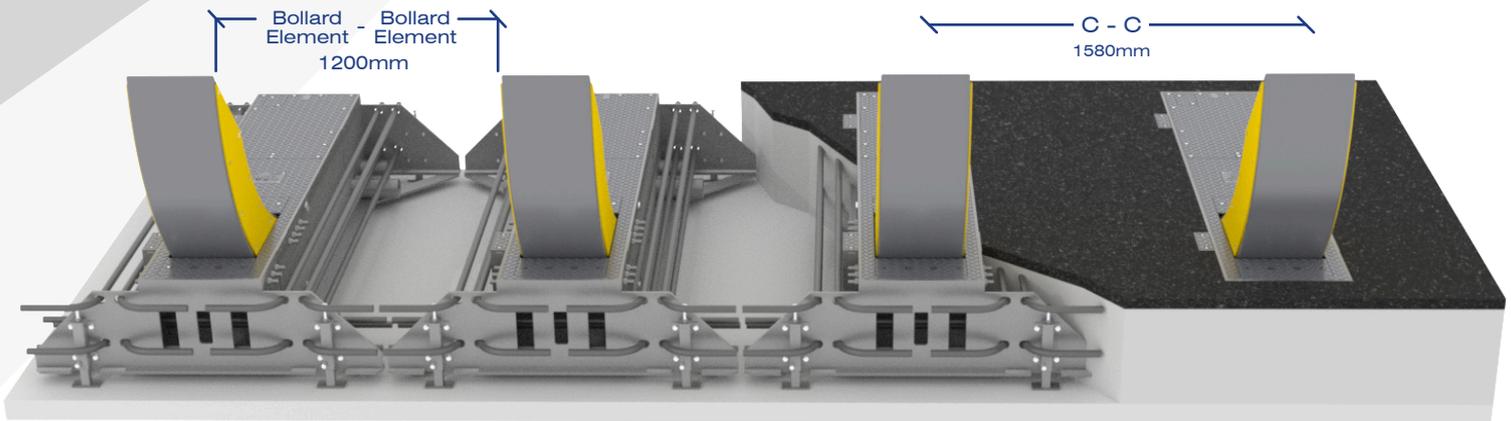


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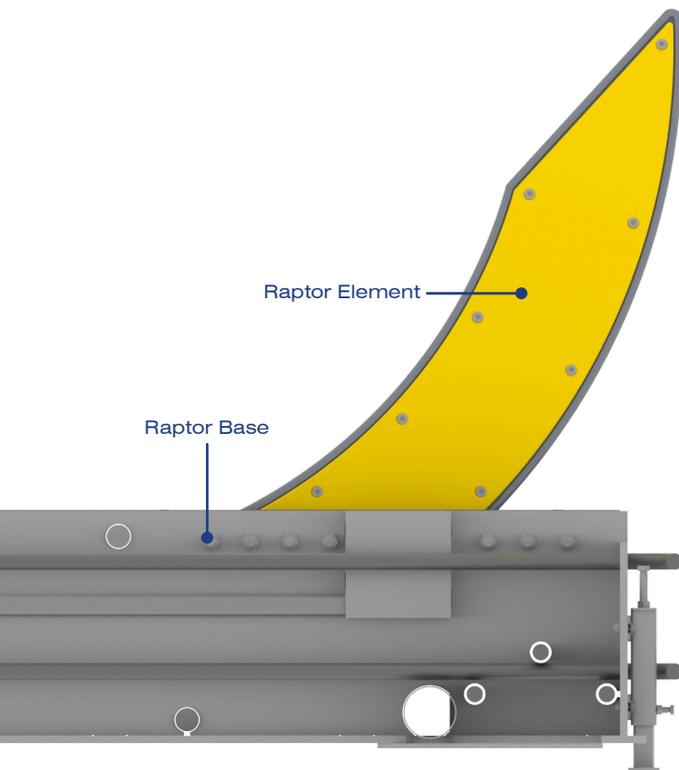
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## CONFIGURATIONS



As the Raptor was tested as a stand alone bollard, it can be installed in any size array. Image above illustrates an array of 4.



<b>Bollard Spacing</b>
The maximum space between Raptor bollards should be 1200mm.
<b>Standard Finish</b>
Bollard Element - Galvanised, Primed & Painted any colour you desire. Base Cassette - Galvanised, Primed & Painted with a grey anti-slip coating.
<b>Axle Loadings</b>
20 tonnes per axle (up to 120 tonnes for a 6 axle vehicle).
<b>Base Depth / Excavation Depth</b>
500mm base 480mm excavation
<b>Foundation Details</b>
Please refer to/request an installation drawing.

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The heavy duty side plates for Heald's Raptor offer a unique way to customise your bollard. Select from any colour shown to match the aesthetic of your site.

*NPSA rated product: Approved for UK Government use, for details contact NPSA.*

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