

FPCS4.2

Automatic Barrier Case Study



The Leading Manufacturer of
Gates, Barriers & Roadblockers

CLIENT : PORTLAND PORT HARBOUR AUTHORITY
SITE : PORTLAND PORT, DORSET

Frontier Pitts has developed an innovative range of perimeter entry control equipment that delivers cost-effective traffic management for high-usage applications in low-to-medium security environments. The Harbour at Portland has been under the control of the Portland Harbour Authority Ltd since the MOD's withdrawal from the dockyard. The Harbour Authority has redeveloped the superb protected waters into a commercial port, which is also used for leisure activities. The project included the installation of Automatic Barriers at the Port's car parks, which the Harbour Authority approached Frontier Pitts to supply and install in order to control traffic. The Port's requirements included allowing ease of access for the staff members whilst ensuring visitors are identified.

As a result, the company's market-leading FBX Automatic Barrier is ideally suited for controlling constant access to and from the car park of the 6700-acre man-made warm-water harbour. On entry and exit staff use a card reader system to operate the barriers. Visitors report to the guard lodge via the visitor lane. Once a visitor is identified they are issued with a windscreen identification pass and the barrier is operated from the guardhouse. A vehicle induction loop system has been installed into the road surface to ensure the boom lowers safely once the vehicle has passed.



The FBX Automatic Barrier is manufactured in boom lengths up to six metres, up to five metres for booms with skirts, and each boom can be fitted with warning lights and signs to the customer's specification. The FBX is able to be raised or lowered through a complete 90-degree arc in as little as 1.8 seconds, depending on boom length, with operation being instantly reversible.

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The FBX is designed for reliability and durability, featuring sealed-for-life, no-maintenance bearings on the drive shaft; while both barriers and control cabinet are supplied with a 20-year protective alkyd paint finish as standard.

The Automatic Barriers which are installed at Portland Harbour Authority have been manufactured with lower folding skirts, pogo-stick end rests and a traffic light system. Other accessories available for FBX Automatic Barrier include a variety of warning signs, lights, articulated boom, over-ride key switch, magnetic locks for the end-rest, with a choice of 'pogo stick' or fixed end-rests.

The FBX Automatic Barrier, as with all Frontier-Pitts products, is entirely designed and built in Britain to the most stringent international standards.



Frontier-Pitts, based in Crawley, Sussex, is the acknowledged leader in perimeter security equipment. Its complete range of products and services is the result of decades of experience. It has offices in Hong Kong, France and China, with over 20 per cent of production exported, and customers in more than 80 countries. Full project management capability includes design, manufacture, civil and electrical services, site surveys, installation, spare parts, refurbishment and fully comprehensive customer services. Constant product R & D is allied to continuing quality improvements in manufacturing and dedicated customer service. This includes producing one of the strongest Roadblockers on the market. The new product is based upon the Terra Blocker design (crash tested in the 1970's) which has been performing at more than 3000 installation sites worldwide for 30 years. Following months of in-house design and computer simulations, the new Terra Blocker was successfully tested by MIRA independent Crash Laboratories in January 2005. Frontier-Pitts has the full ISO 9001 accreditation.

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