



EM
SERIES



220/EM-600A / 220/EM-800A

Automatic bollards with integrated electromechanical actuator



Innovation and security without compromise

The automatic bollards of the **EM Series** combine **advanced technology** and **operational sustainability**, offering reliable performance and reduced maintenance.

They are the ideal choice for installations in residential areas or **zones with environmental constraints**, where **silence**, energy **efficiency**, and **ease** of management are required.

- **Available in different models** to suit any security requirement
- Ideal for **high-frequency use** (up to 1,000 cycles/day)
- Centralized control of up to **9 bollards simultaneously**
- **Reduced maintenance** thanks to electromechanical technology
- **Smooth and silent movement**
- Simplified installation with **preconfigured wiring**.

Smart!

Choose the EM Series if you're looking for **green solutions, without oil use**.



Standard configuration

The standard configuration of our systems is designed to ensure efficiency, safety and ease of management. The configuration includes:

- **Anthracite grey painted steel bollard**, a device for controlling vehicle access
- **Steel foundation box with aluminium zinc coating**, an underground structure housing the bollard
- **Control unit**, manages the operation of the bollard.

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AUTOMATIC

EM

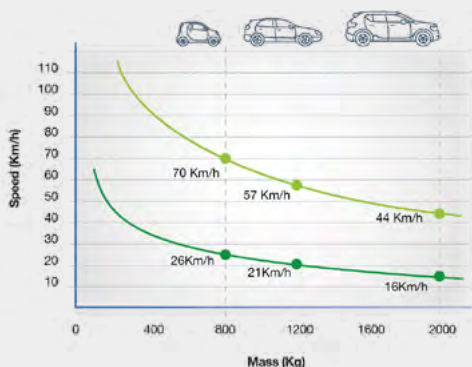
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	220/EM-600A	220/EM-800A
Cylinder material	S235JR normal steel - X5CrNi 18-10 (AISI 304) stainless steel	
Cylinder diameter	220mm	
Cylinder height	600mm	800mm
Cylinder thickness	4mm	
Movement principle	Electromechanical	
Cylinder normal steel finish	Anti-corrosion treatment - grey anthracite standard painting	
Cylinder stainless steel finish	Grey anthracite standard painting or brushing	
Reflecting adhesive strip	Standard - height 55mm	
Rising time	5s	6,5s
Lowering time	4s	5s
Emergency lowering	Standard (emergency batteries included in the scope of delivery)	
Safety reversal	Standard	
Connection line to control unit	Standard 10m (max 30m)	
Voltage for control unit	230/400 VAC (+/- 10%) 50/60Hz	
Electromechanical motor	Built-in the bollard	
Protection class	IP 67	
Type of use	1000 Cycles/day	
Life unit	1.500.000 Cycles	
Impact resistance	20.000 J	
Breakout resistance	150.000 J	
Nominal operating temperature	-40°C +70°C (for low temperatures see heating resistance)	
Load class (EN124)	D400	

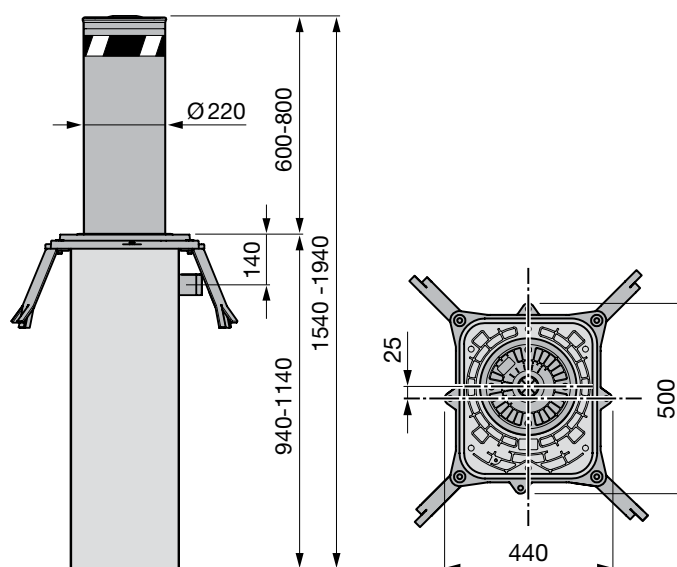


Impact resistance

● 20,000 J

Breakout resistance

● 150,000 J



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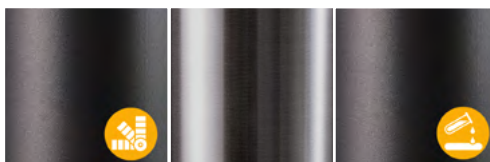


Pilomat offers **safety accessories** for every installed system: including photocells, flashing lights and acoustic sensors for emergency vehicles. Each device is designed to **ensure maximum efficiency, clear signaling and secure control.**

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Available finishes



RAL painting

Brushing

Anti-corrosion
marine treatment

Safety and visibility



Reflecting strip

LED lighting strip

Warning signal

Safety reverse
function

Traffic light

Induction loops

Special design



RAL painted
cover

Custom
inclination

Frame for paving
stones

Functions



Automatic
lowering

Heating element

UPS unit

Sensors: alarm,
crash

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Pilomat provide a complete range of **control devices**, designed to make the use of installed systems practical and immediate. Buttons, selector and remote controls allow users to operate the devices with a single gesture, **ensuring immediate, reliable control and intuitive management.**

Control devices



Key switch

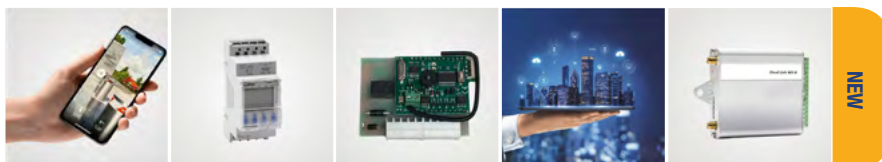
Card reader

Numeric key pad

Finger scan

Hand transmitter

License plate reader



App or Bluetooth

Timer
(week - year)

GSM activator

P-Connect

Cloud Unit W5-B



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