



**VORTEX<sup>®</sup>**  
*by HQ MAG*

**Smart locking for your  
hospital**



# The hospital, Inherently open to everyone, Must be controlled everywhere.

VORTEX

Today, **access to health care is an essential right**. For this access to be guaranteed and efficient, it is necessary to **define a new paradigm within the security area**.

The safety provided must be **designed for the people** (staff and patients) **but also the equipment and products** used in the hospital environment. The *National Mass Patient and Evacuee Movement, Regulating, and Tracking System* or *IVS* (Intelligent Video Surveillance) are good tools to manage an incident but unable to provide a preventative solution, like our new system which stands by the phrase "prevention over cure".

An efficient security study is always carried out following **the rank layers principle in prioritised perimeters with distinguished technologies**. But, the growing intelligence of electronic access control systems contribute, paradoxically, to underestimate the main weakest link: **the access resistance to an intrusion**.

It is in this particular area of expertise that we have built our reputation as a manufacturer.

Because the hospital field has such specific requirements, this document summarises a tried and tested example of access security in your area.

## Alarm and Monitoring

A **MegaLED**, visible from afar, confirms the secured locking of the door. A **patented system** triggers a local and distant alarm by abnormal pressure on the door. The Vortex then becomes a unique system which signals an intrusion attempt before the door is being forced.



VX 2400LP

### Large LED

A top of the range hybrid locking system fitted with a MegaLED allowing visibility and monitoring from a long distance. This function allows to verify the door locking status from afar.



### Small LED



Offering over 1 000 000 cycles MTBF (Grade 9), the Vortex reliability greatly exceeds most of electric locks's lifetime on the market.

## The VORTEX technology

The Vortex is a **hybrid locking solution** (magnetic and mechanical) **smaller** than a traditional electromagnetic lock. It guarantees an extremely strong locking (up to ten times more powerful than traditional maglocks on the market). Its tested holding force is **15000 N**.

This hybrid lock **exclusivity** is found in a "**pin**" set carved in a high resistance alloy. This pin is captured inside a hole through the Vortex action of electromagnetic forces. The locking is then secured by the kinetic within the magnetic block.



## Certifications

**Certified DAS** for the French market (NF S61937) and in compliance for the rest of Europe to the EN 13637, chap. 7 certification.

## Vortex Range

**Easy installation** with all the available versions:

- mortise mount (flush)
- surface mount
- For sliding doors
- Fitted in transoms and/or in a handle



VX 1982-35.5



VX 4400



HDL HQMAG 15000N



## The VORTEX to secure the CHIREC DELTA Hospital Centre, Brussels, Belgium.

In a few numbers, the CHIREC is :

- **1.145 hospital beds**
- **4.000 staff** of which 1.170 of them are doctors.
- **44.000 admissions per year in classic care treatments.**
- **56.000 admissions per year in daily units**
- **98.000 visits per year of varied emergency services**

In partnership with Gunnebo/Fichet and Engie, we have fitted more than 1000 doors with the Vortex technology.

This faultless installation was made following others in prestigious sites requiring high security such as:

- **The Blackpool Victoria Hospital, Blackpool UK**
- **AccorHotels Arena (Bercy), Paris France**
- **Heathrow International airport (3 terminals), London UK**



Security & Safety, Our Priority  
Since 1983

The Vortex solution is part of **HQ MAG** which means "High Quality Electromagnet".

For more than 35 years, the security market professionals have trusted the solutions offered by our group founders (**HQ MAG**). This longevity is made possible thanks to the reliability and the exceptional quality level of our products.

By choosing the **HQ MAG** solutions you are investing in a high security product that is reliable, resistant and certified. More than ever, you are electing innovation and design.

**All the HQ MAG products are intrinsically without magnetic remanence.**

Their holding force and their certified corrosion-proof treatment are both lab-tested by official and independent laboratories\*.

**HQ MAG and VORTEX importer**  
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