



Security & Safety, Our priority



Stainless Steel

Electromagnetic locking in
stainless steel housing



STAINLESS STEEL



Electromagnetic locking in stainless steel housing

In 1983, our group launched a unique locking system on the European market called the electromagnetic lock.

Specialising in locking solutions, we have always been developing quality products answering the overall market demand.

Our range of IP67 magnetic locks responds to this need of quality and resistance. It is made in AISI 304 stainless steel finish for harsh environment applications (optional AISI 316 available). Each maglock housing is totally sealed to guarantee a complete water tightness.

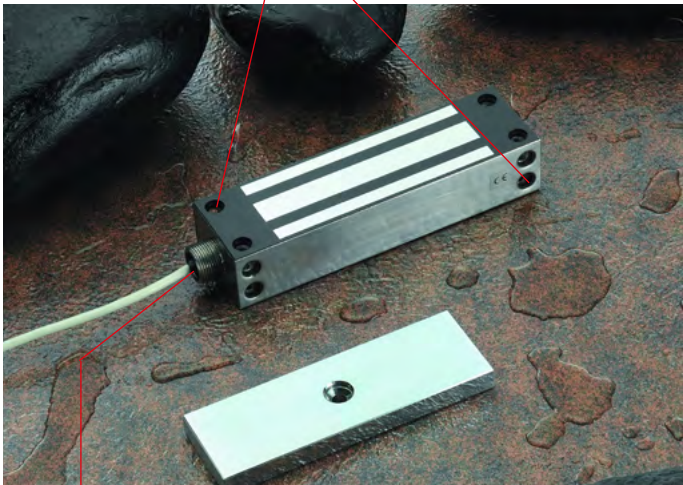
Those HQ MAG products features with the advantage to provide 50% more performance with the same size than competing products on the market.



HQMAG

Universal mounting

This model can be front or side mounted



Certified cable output

Housing completely resin sealed. Wiring cable totally protected. IP67 rating and corrosion proof surface treatment certified ISO 9227 and ASTM B 117-90.
Side conduit: 25mm diameter.

IP67 rating certified



Front mount



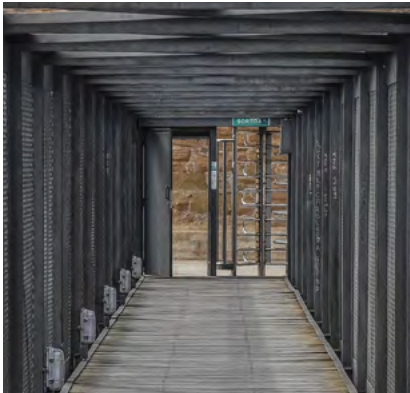
Side mount

Design

All our Stainless Steel maglocks are made in one block: the resin is directly applied inside the stainless steel housing. This leads to more aesthetic but also more compact design to similar products made in standard aluminium.

A fast, easy and long-term reliable installation.

Even if those products could be perfectly integrated on standard doors, our stainless steel maglocks are mainly recommended for external or for harsh and hostile environment applications. Either at mechanical level (heavy doors slamming against the maglock) and at climate level (sun, humidity, sand, ice, etc...).



External heavy doors locking



Marine and sea front areas locking



Automatic gates locking



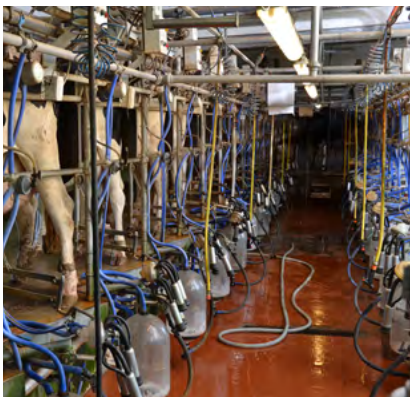
Humid areas locking like lockers showers



Public toilets locking



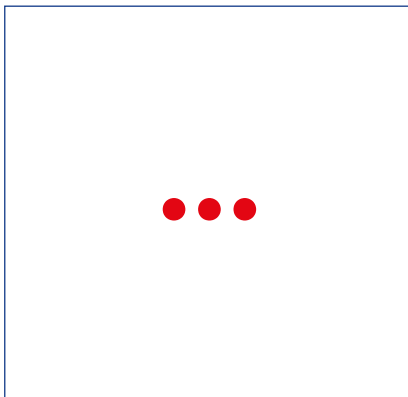
Ski locker room locking in ski resorts



Sterile zone locking like milk farms or pharmaceutical areas



Food supply areas locking like distilleries or supermarket distribution



And many more difficult conditions applications if not extreme

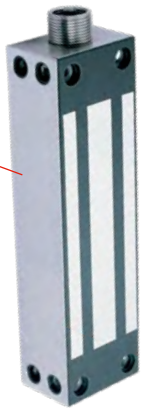


Certification on a sticker

Our main HQMag products features are displayed on the products with a certified sticker responding to the EN 13637, chap 7 norm.

3	9	9	1	2	6+	6+	0	0	D
Ref: EN 13637 + Corrosion EN ISO 9227: Grade 3									

HQMAG 5000G sticker example



No residual magnetism

The quality of metal used to manufacture our products fully guarantee the absence of any residual magnetism. No functional system with reliability issues is added to our products. No armature plate push button or electronic kick-off board.



Installation examples with IP67 electromagnetic locks



7 500N Range



- N Classe*: Grade 6+ (7 500 N / 750 Kg / 1 653 lbf)
- C° -40 °C to +60 °C
- ⚡ 12 V DC / 24 V DC
- IP 67
- EN 13637, chap. 7
- 224 x 63,5 x 45 mm
- 1,50 m
- Front

HQMAG 5000F

IP67 rating electromagnetic lock - Stainless steel range

Weatherproof electromagnetic locks.
Reinforced stainless steel.
It is an ideal product for outdoor gates or heavy doors.

PERFORMANCE*

Holding force category: Grade 6+ (7 500N)
Category of use: Grade 3 (High frequency - Public use)
Durability/reliability: Grade 9 (> 1000.000 cycles)
Corrosion resistance: Grade 3 (EN 1670, EN ISO 9227)

* Classification as per EN 13637 chap.7



- N Classe*: Grade 6+ (7 500 N / 750 Kg / 1 653 lbf)
- C° -40 °C to +60 °C
- ⚡ 12 V DC / 24 V DC
- IP 67
- EN 13637, chap. 7
- 224 x 63,5 x 45 mm
- 1,50 m
- Universal

HQMAG 5000G

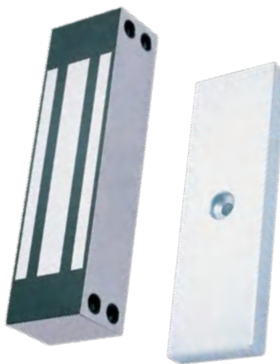
IP67 rating electromagnetic lock - Stainless steel range

Weatherproof electromagnetic locks.
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Holding force category: Grade 6+ (7 500N)
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- N Classe*: Grade 6+ (7 500 N / 750 Kg / 1 653 lbf)
- C° -40 °C to +60 °C
- ⚡ 12 V DC / 24 V DC
- IP 67
- EN 13637, chap. 7
- 224 x 63,5 x 45 mm
- 1,50 m
- Lateral

HQMAG 5000S

IP67 rating electromagnetic lock - Stainless steel range

Weatherproof electromagnetic locks.
Reinforced stainless steel.
It is an ideal product for outdoor gates or heavy doors.

PERFORMANCE*

Holding force category: Grade 6+ (7 500N)
Category of use: Grade 3 (High frequency - Public use)
Durability/reliability: Grade 9 (> 1000.000 cycles)
Corrosion resistance: Grade 3 (EN 1670, EN ISO 9227)

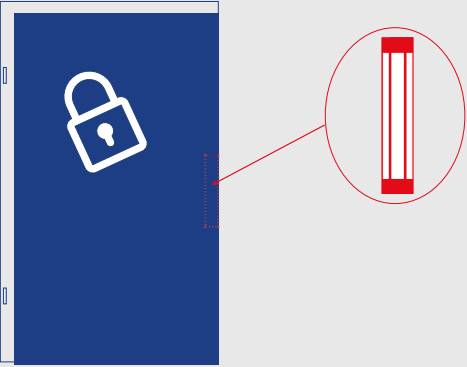
* Classification as per EN 13637 chap.7

LSS solution

With the LSS option of our HQMAG 5000x, HQMAG 4700S-RS and HQMAG 4700F-RS models, you are directly informed if the door is not properly locked thanks to the reed contact connected to an alarm or access control system.

Door locked:

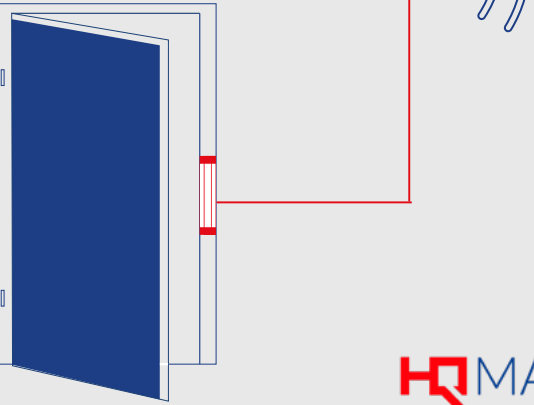
The door is locked with a electromagnetic lock.



LSS

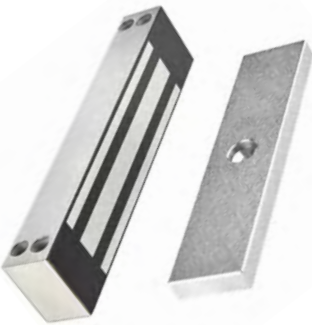
Door unlocked:

The door is not locked and an alarm is sent to the controller and/or an alarm bell.



Surface mount locking with LSS option - Specific features

4 100 N Range



- N Classe*: Grade 4+ (4 100 N / 410 Kg / 903 lbf)
- C° -40 °C to +60 °C
- ⚡ 12 V DC / 24 V DC
- IP 67
- EN 13637, chap. 7
- 220 x 32 x 47 mm
- 1,50 m
- Lateral

HQMAG 4700S-RS

IP67 rating electromagnetic lock - Stainless steel range

Weatherproof electromagnetic locks.
Reinforced stainless steel.
It is an ideal product for outdoor gates or heavy doors.

- PERFORMANCE*
- Holding force category: Grade 4+ (4 100N)
 - Category of use: Grade 3 (High frequency - Public use)
 - Durability/reliability: Grade 9 (> 1 000 000 cycles)
 - Corrosion resistance: Grade 3 (EN 1670, EN ISO 9227)

* Classification as per EN 13637 chap.7

HQMAG 4700F-RS

IP67 rating electromagnetic lock - Stainless steel range

Weatherproof electromagnetic locks.
Reinforced stainless steel.
It is an ideal product for outdoor gates or heavy doors.

- PERFORMANCE*
- Holding force category: Grade 4+ (4 100N)
 - Category of use: Grade 3 (High frequency - Public use)
 - Durability/reliability: Grade 9 (> 1 000 000 cycles)
 - Corrosion resistance: Grade 3 (EN 1670, EN ISO 9227)

* Classification as per EN 13637 chap.7

Surface mount locking - Specific features for each model

4 100 N Range



- N Classe*: Grade 4+ (4 100 N / 410 Kg / 903 lbf)
- C° -40 °C to +60 °C
- ⚡ 12 V DC / 24 V DC
- IP 67
- EN 13637, chap. 7
- 220 x 32 x 47 mm
- 1,50 m
- Front

HQMAG 4700F

IP67 rating electromagnetic lock - Stainless steel range

Weatherproof electromagnetic locks.
Reinforced stainless steel.
It is an ideal product for outdoor gates or heavy doors.

- PERFORMANCE*
- Holding force category: Grade 4+ (4 100N)
 - Category of use: Grade 3 (High frequency - Public use)
 - Durability/reliability: Grade 9 (> 1 000 000 cycles)
 - Corrosion resistance: Grade 3 (EN 1670, EN ISO 9227)

* Classification as per EN 13637 chap.7

- N Classe*: Grade 4+ (4 100 N / 410 Kg / 903 lbf)
- C° -40 °C to +60 °C
- ⚡ 12 V DC / 24 V DC
- IP 67
- EN 13637, chap. 7
- 220 x 32 x 47 mm
- 1,50 m
- Lateral

HQMAG 4700S

IP67 rating electromagnetic lock - Stainless steel range

Weatherproof electromagnetic locks.
Reinforced stainless steel.
It is an ideal product for outdoor gates or heavy doors.

- PERFORMANCE*
- Holding force category: Grade 4+ (4 100N)
 - Category of use: Grade 3 (High frequency - Public use)
 - Durability/reliability: Grade 9 (> 1 000 000 cycles)
 - Corrosion resistance: Grade 3 (EN 1670, EN ISO 9227)

* Classification as per EN 13637 chap.7

- N Classe*: Grade 3 (2 000 N / 200 Kg / 440 lbf)
- C° -40 °C to +60 °C
- ⚡ 12 V DC / 24 V DC
- IP 67
- EN 13637, chap. 7
- 164 x 31,5 x 24,5 mm
- 1,50 m
- Universal

HQMAG 4500FS

IP67 rating electromagnetic lock - Stainless steel range

Weatherproof electromagnetic locks.
Reinforced stainless steel.
It is an ideal product for outdoor gates or heavy doors.

- PERFORMANCE*
- Holding force category: Grade 3 (2 000N)
 - Category of use: Grade 3 (High frequency - Public use)
 - Durability/reliability: Grade 9 (> 1 000 000 cycles)
 - Corrosion resistance: Grade 3 (EN 1670, EN ISO 9227)

* Classification as per EN 13637 chap.7

Electromagnetic lock test results summarise*

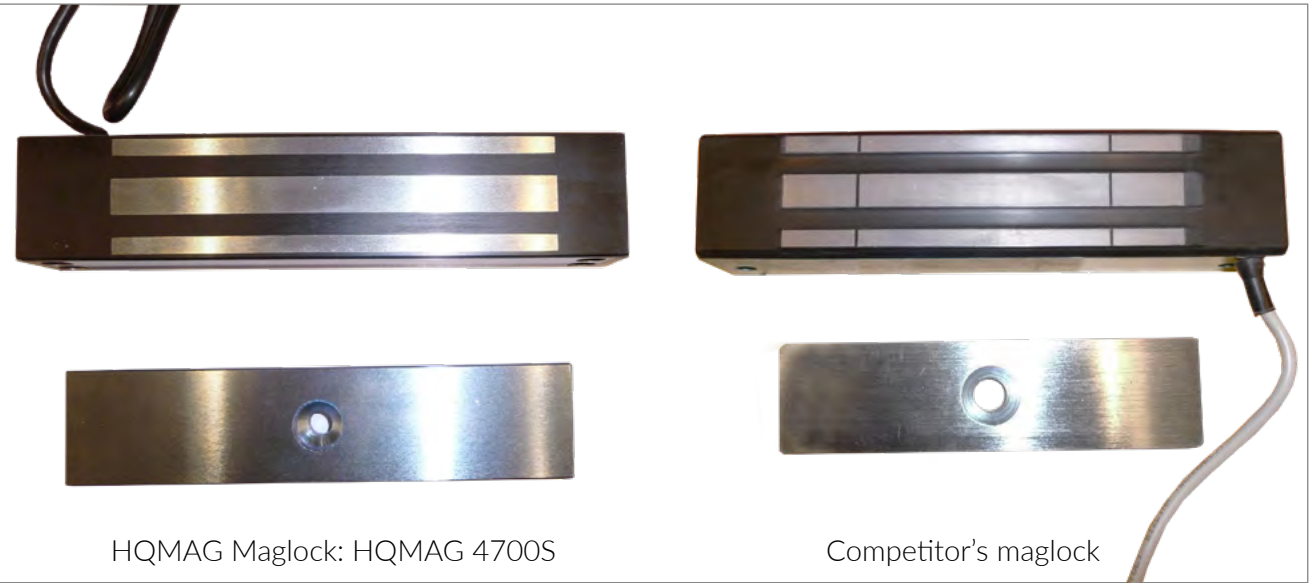


Tests type: Holding force traction and saline fog test
Samples: From the European market - 4 000N range

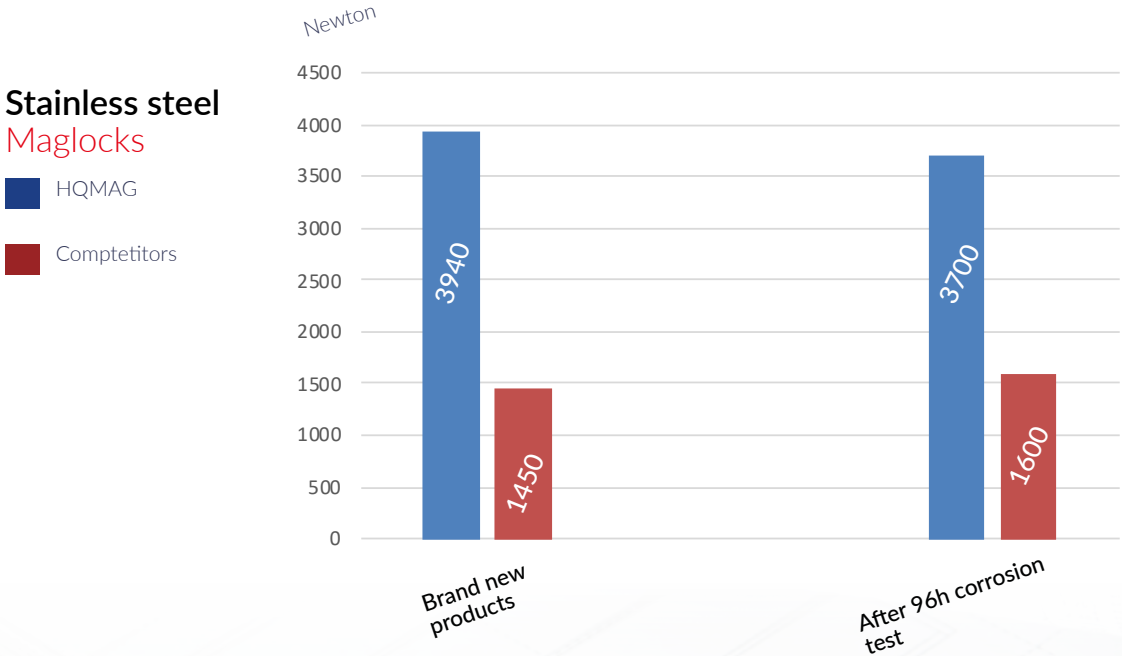
Stainless steel
Maglocks

Product Reference	Holding force on brand new product	Holding force after 96h corrosion test ISO 9227 / ASTM B 117	Holding force percentage difference from brand new after 96h corrosion test
Competitor's maglock	1 450 N/~145 Kg/ ~320 lbf	1 600 N/~161 Kg/ ~353 lbf	(+) 10%
HQMAG 4700S	3 940 N/~394 Kg/ ~869 lbf	3 700 N/~370 Kg/ ~816 lbf	- 6%

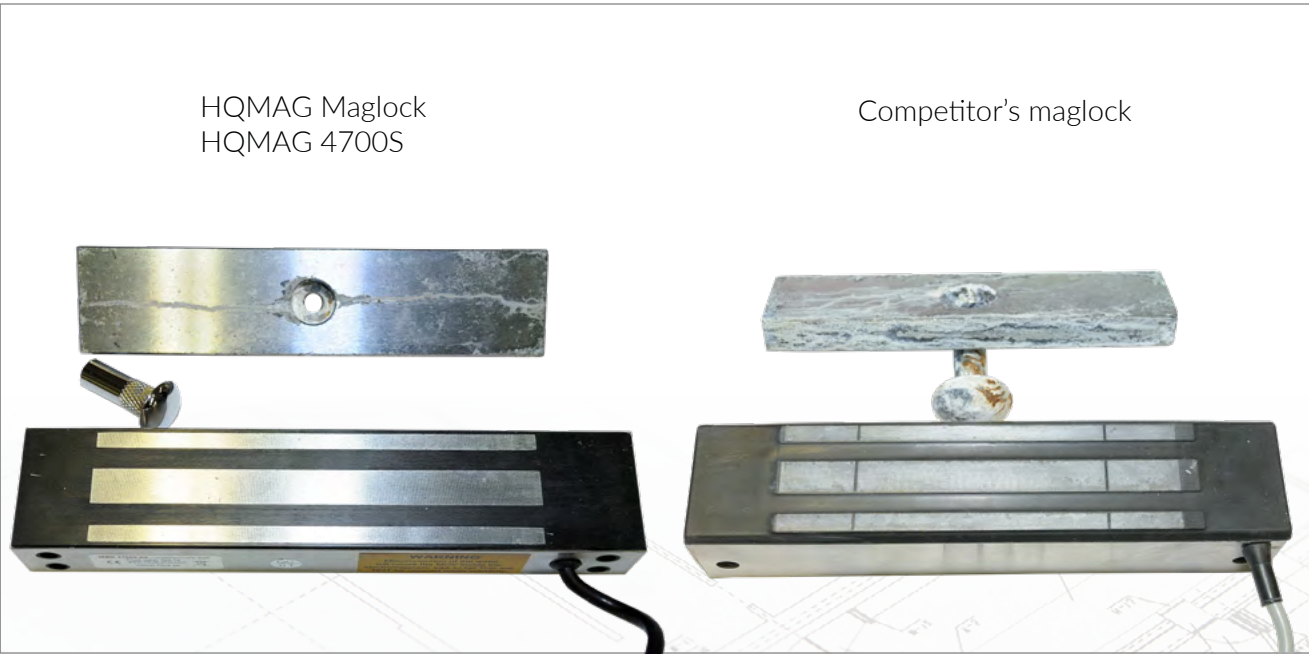
Pictures of brand new maglocks before going through the corrosion resistance test:



Electromagnetic locks holding force chart (4 100 N range)



Pictures of the same electromagnetic locking after the 96h corrosion test, ISO 9227 / ASTM B 117:



Symbols index

- Holding force
- Power
- Emergency exit doors
- Cable
- Environmental Temperature
- Dimensions
- IP rating
- Mounting

*Tests made at the AIB Laboratory - Vinçotte and SNCB-Infrabel laboratory in December 2017
Power supply: 12 VDC
Traction speed: ~3mm/sec



Get in touch

If you want to learn more about our products, please come to visit our website.

www.hqmag.eu

