

User Manual for V-MAG 340© and V-MAG 70©



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V-MAG[©] USER MANUAL

Following guidelines should be available and known to all people handling the V-MAG's from Engiso.

E-learning course is available on Engiso.com under the section "academy", and ought to be passed before handling V-MAG's.

Strong magnetic fields can destroy magnetic data, such as credit cards, electronic & mechanical components, and similar devices.

CAUTION

Gaining an adequate education in appropriate techniques and methods before handling the V-MAG is your own responsibility. Users are obliged to read and understand this User Manual.

Users are to use personal protective equipment (PPE) when using and handling the V-MAG[©]



Working with V-MAG[©] poses a danger to User, Medical implants, and electronic equipment other than specified. IF in doubt, please contact ENGISO.

Users of the V-MAG need to be familiar with the "how to use" section of this manual.

It is prohibited to do any modifications or repairs to the V-MAG without accept from Engiso.

Any changes or other uses beyond this manual are strictly forbidden.

If there are any doubts to the safety or function of the V-MAG, or parts of it aren't properly fixed, deformed or damaged with cracks or similar incongruities it may not be used – Please contact the manufacturer immediately.

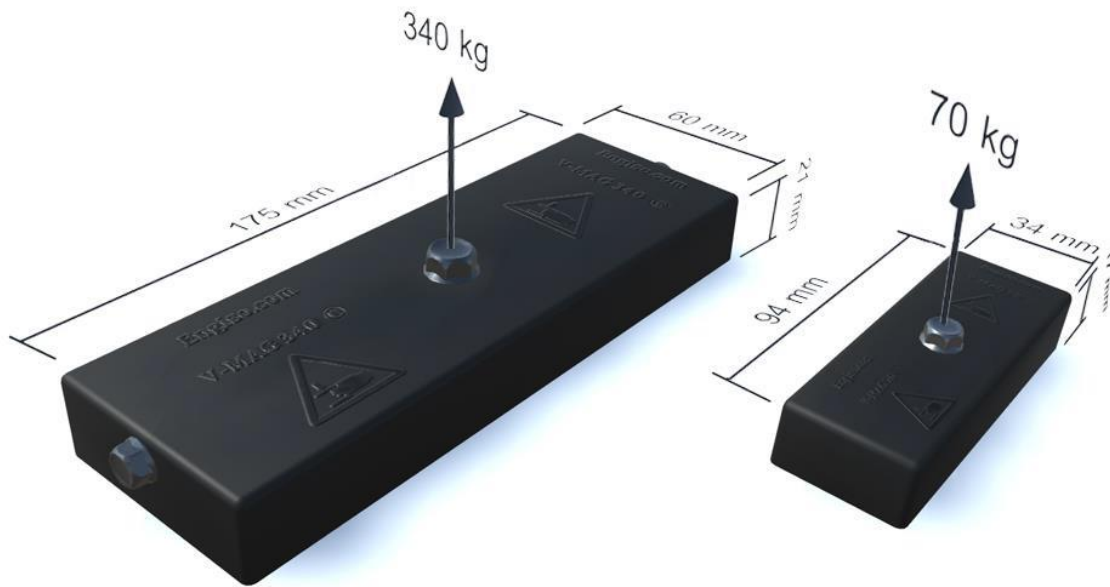


To avoid crushing the skin, fingers or other parts of the body magnets should be handled with great care because of the strong attractive forces. Always wear protection when handling V-MAG's.

PRODUCT FEATURES AND TECHNICAL INFORMATION

The material used for V-MAG's are Neodymium meaning the magnetic force is not lost over time. The V-MAG's are coated with a layer of black EPDM (UV resistant) for ideal corrosion protection. V-MAG's comes with bolts in A4 stainless steel.

- No welding required
- No surface treatment
- Optimal and fast retrofit on various types of steel structures
- Easily dismantled
- Assembly without special tools
- Wind and weather resistant
- UV resistant
- Custom tailored design possibilities
- Does not lose magnetic force over time



V-MAG-340©

Size: 175x60x21mm

Lifting capacity: 340 KG

Pre mounted Bolt: 1xM8x15mm & 2xM6x15mm.

V-MAG-70©

Size: 94x34x17mm

Lifting capacity: 70 KG

Pre mounted bolt: 1xM6x15mm

HOW TO USE V-MAG 340©

To avoid crushing the skin, fingers or other parts of the body magnets should be handled with great care because of the strong attractive forces. Always wear protection when handling V-MAG´s



1. Remove wrap from V-MAG 340©



2. Before mounting the V-MAG 340©

- Make sure the V-MAG is clean and without any steel fragments.
- Make sure the designated surface is clean and without oil, dirt or steel fragments.



3. Mounting of the V-MAG 340©

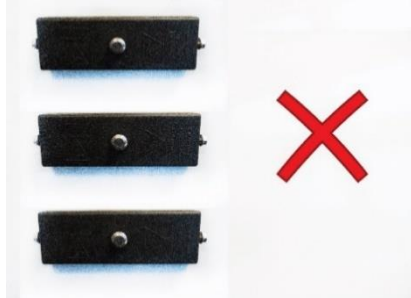
Unscrew the bolt from the middle of the V-MAG

Attach the Mount/De-Mount Tool from Engiso. It is important that the tool is completely attached with no space between the flat part of the tool and the rubber surface of the magnet.

Place the V-MAG onto the chosen spot with great care using the Mount/De-Mount Tool.

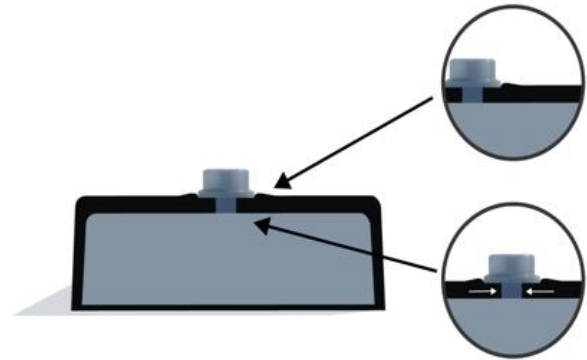
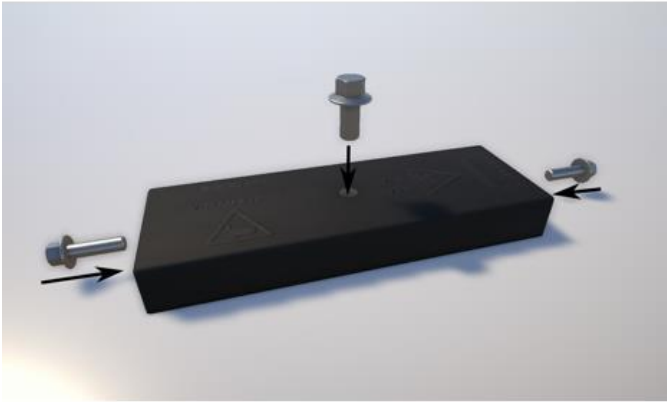


This is the wrong way to use the V-MAG



This is the correct way to use the V-MAG





Proper tightening of the V-MAG© bolts is important to protect the V-MAG© from potential corrosion and a reduced lifetime. Secure the bolts properly by tightening the bolt shoulder against the rubber surface of the V-MAG© and create a sufficient seal.

DO NOT leave a threaded connections exposed / open, or with bolt hardware untightened.

DO NOT overtighten and damage the rubber material. When mounting a bracket to the magnet do not exceed 14Nm of torque on the M8 bolt.

When mounting a bracket to the magnet do not exceed 10Nm of torque on the M6 bolt.

In case a proper seal cannot be achieved between the bolt-shoulder and the V-MAG© rubber surface, use a weather resistance sealant.

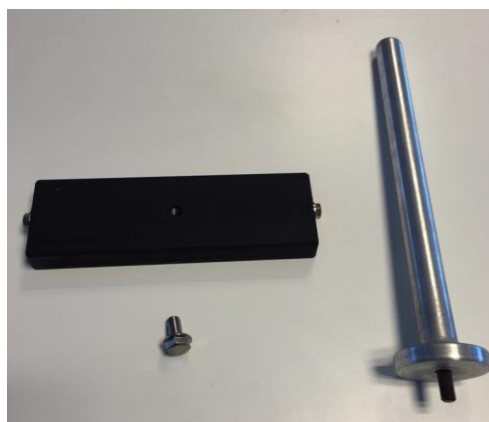
4. Dismounting of the V-MAG 340©



If replacement or dismantle of V-MAG´s is necessary, use the Mount/De-Mount Tool from Engiso.



Unscrew the bolt and eventual brackets attached to the V-MAG

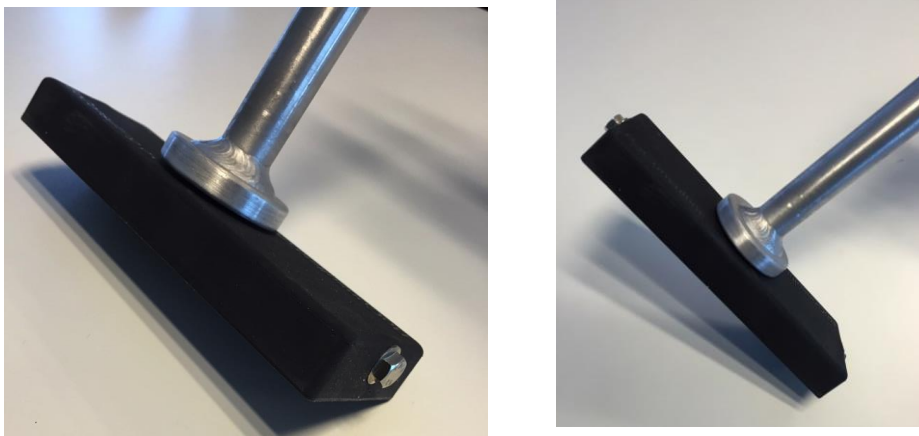


Mount the Mount/De-Mount Tool onto the V-MAG

It is important that the tool is completely attached with no space between the flat part of the tool and the rubber surface of the magnet.



Tilt the V-MAG towards its side followed by a tip towards its other axis to complete the dismounting of the V-MAG.



HOW TO USE V-MAG 70©

To avoid crushing the skin, fingers or other parts of the body magnets should be handled with great care because of the strong attractive forces. Always wear protection when handling V-MAG´s



5. Remove wrap from V-MAG 70©



6. Before mounting the V-MAG 70©

- Make sure the V-MAG is clean and without any steel fragments.
- Make sure the designated surface is clean and without oil, dirt or steel fragments.



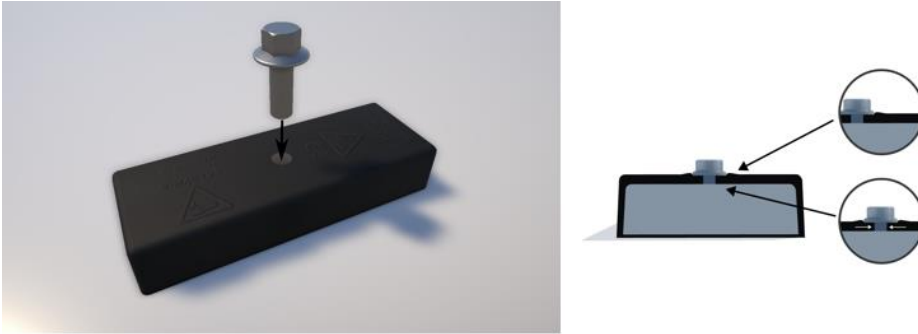
7. Mounting of the V-MAG 70©

Unscrew the bolt from the middle of the V-MAG

Attach the Mount/De-Mount Tool from Engiso. It is important that the tool is completely attached with no space between the flat part of the tool and the rubber surface of the magnet.

Place the V-MAG onto the chosen spot with great care using the Mount/De-Mount Tool.





Proper tightening of the V-MAG[®] bolts is important to protect the V-MAG[®] from potential corrosion and a reduced lifetime. Secure the bolts properly by tightening the bolt shoulder against the rubber surface of the V-MAG[®] and create a sufficient seal.

DO NOT leave a threaded connections exposed / open, or with bolt hardware untightened.

DO NOT overtighten and damage the rubber material. When mounting a bracket to the magnet do not exceed 10Nm of torque on the M6 bolt.

In case a proper seal cannot be achieved between the bolt-shoulder and the V-MAG[®] rubber surface, use a weather resistance sealant.

8. Dismounting of the V-MAG 70©



If replacement or dismantle of V-MAG´s is necessary, use the Mount/De-Mount Tool from Engiso.



Unscrew the bolt and eventual brackets attached to the V-MAG

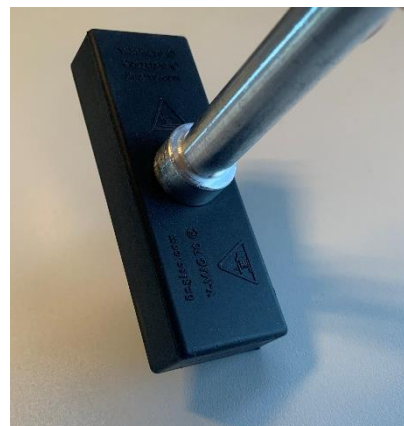


Mount the Mount/De-Mount Tool onto the V-MAG

It is important that the tool is completely attached with no space between the flat part of the tool and the rubber surface of the magnet.



Tilt the V-MAG towards its side followed by a tip towards its other axis to complete the dismounting of the V-MAG.



INSPECTION AND MAINTENANCE PROCEDURES



If the V-MAG© gets dirty clean with plain water, and wipe water off with a dry rag.

When not in use the V-MAG© are always to be stored in the case designed here for.

Store the V-MAG© in a dry environment and always keep away from acid, paints or similar.

Before use

User must visually inspect the V-MAG© for damages or defects. Visual inspection of V-MAG© is to ensure it is free from deformities, damages, cracks, or similar unacceptable defects affecting proper function.

Please refer to ENGISO Inspection Check List or contact ENGISO if in doubt.

Periodical examination

A periodic examination at least every 12 month is essential for the safety of the V-MAGs. The examination must be performed by a competent person following the inspection form in this manual.

Inspection Form V-MAG©

Inspection Form V-MAG©		
Manufacturer		
Type		
Model		
Name of person in charge of inspection		
Address and location of inspection		
Name/Address of company		
	OK	NOT OK
V-MAG does not show any deformations		
V-MAG does not show any visible damages		
No sign of corrosion on V-MAG and its components		
Comments:		

TRAINING & CERTIFICATION IN THE USE OF V-MAG'S

V-Mag Online training

Engiso offers online training and certification in the use of V-Mag 70 & V-Mag 340.

For more information:

www.engiso.com/v-mag-manual



SUPPORT

If any doubts, how to handle or use the V-MAG delivered from Engiso.

Web: www.Engiso.com

Phone: (+45) 70230075

Mail: info@engiso.com