

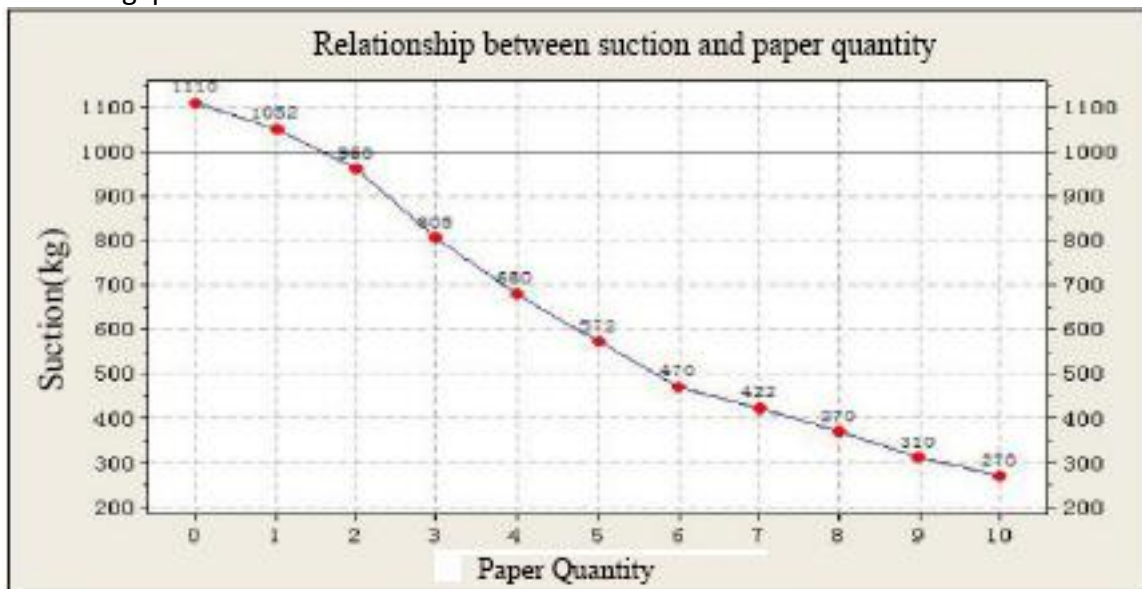
GME Shuttering magnet Maintenance Manual

The shuttering magnet of Great Magtech (Xiamen) Electric Co., Ltd. is a magnetic fixing device specially developed for fixing precast concrete formwork. Compared with the traditional bolt fixing method, the shuttering magnet has the characteristics of quick disassembly and assembly, flexible operation and strong fixing force, which effectively improves the shuttering magnet. It has been widely used at home and abroad, because of labor efficiency and reduced loss of the die table.

First, In the use of the shuttering magnet:

It should avoid any debris at the bottom on the table, affecting the magnetic force of the shuttering magnet too much and the mold table. We use high-performance rare earth permanent magnet materials to produce strong magnetic attraction in the magnetic circuit. When the shuttering magnet is in working state, the suction surface at the bottom of the magnetic block is closely attached to the steel mold platform, and is firmly held. However, when there is foreign matter (such as concrete, grease, film) at the bottom of the magnet block, it cannot be closely attached to the platform, and the attraction power will be significantly reduced.

To this end, we take GME-1000 shuttering magnet as an example to research the relationship between the holding force and the bottom of the magnet block and the platform clearance. We placed 0~10 sheets of A4 paper (the thickness of each sheet is 0.09mm) between the bottom of the magnet block and the platform to test the adsorption force of the shuttering magnet under different gaps. The test data is as follows:



As can be seen from the above figure, the gap between the bottom of the magnet block and the platform will significantly affect the holding capacity of the shuttering magnet, so we recommend that the customer maintain the shuttering magnet as follows:

Clean the debris on the bottom and the debris on the table:

Before using the shuttering magnet, make sure the bottom of the magnetic block and the platform are clean and flat. If there is foreign matter at the bottom of the shuttering magnet, it can be cleaned with a stainless steel scraper (the iron scraper will be absorbed and cannot be cleaned). If there is concrete, it is difficult to clean the material. At the time, it can be cleaned with a polishing knife. As shown in the figure below, the wire polishing plate is installed on the sander to polish the bottom of the magnet block.



Shuttering magnet bottom debris is not cleaned



Third, gently take care to prevent from damage to the magnet inside and the shuttering magnet:

As the high-performance permanent magnet material used is sintered by rare earth materials, it is hard and brittle, and it is easy to be broken, similar to ceramics, Therefore, during the use of the shuttering magnet, it should be prevented from falling and chaos, and it cannot be thrown at a long distance after it remove from the mold. Avoid using a hard tool (such as iron big hammer) to knock, bump, etc., causing the shuttering magnet to deform. As shown below:



Rude discard shuttering magnet lead to deformation

When removing the shuttering magnet, do not use the metal hoe to directly tap. The switch button should be lifted with the crowbar attached to the shuttering magnet. The suction between the shuttering magnet and the platform will be greatly reduced, and the shuttering magnet can be moved away. As shown below:



When pressing the shuttering magnet, you can't use the metal tool to directly hit it. It is recommended to press it with the sole of the foot and directly step on the gravity of the human body, but it should not be squatted to prevent slipping and injury when the foot is rubbed.



Correct operation



Wrong operation

If you must use a tool, it is recommended to use a rubber hammer to gently tap.



Fourth, the shuttering magnet collection:

After the shuttering magnet is used, the shuttering magnet should be cleaned and placed on the stainless steel cart to keep the shuttering magnet clean for convenient use. The shuttering magnet should not be placed on the iron cart to avoid it being caught and cannot move away.



Five, shuttering magnet storage:

1. When the shuttering magnet is not used for a long time, after the shuttering magnet is cleaned, apply anti-rust oil (such as Mobil, Great Wall, etc.) at the bottom of the shuttering magnet to prevent the magnet block from rusting and affect the holding power.
2. The ambient temperature of the shuttering magnet used and stored should be no higher than 80 °C, and there is no corrosive medium such as strong acid or alkali. In summary, as long as the above protection, cleaning, and prevention of knocking, etc., I believe that the shuttering magnet of Great Magtech (Xiamen) Electric Co., Ltd. will be durable and trustworthy!

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