

## Application No. 149: 4 Russian experiments

Author: Aleksei Kokorev, Tver, Russian Federation

### Experiments that demonstrate the full force of our super magnets

After his experiment with the "floating compass" ([www.supermagnete.de/eng/project216](http://www.supermagnete.de/eng/project216)), Aleksei from Russia sends us four more of his experiments that demonstrate the full force of our super magnets:

Small, but powerful: The disc magnet S-20-10-N ([www.supermagnete.de/eng/S-20-10-N](http://www.supermagnete.de/eng/S-20-10-N)) can pull up a medium dumbbell or even a weight of 8 kg! The scale proves it: No trick!



Video

Here, Aleksei demonstrates that our magnets keep the promise that we make: A cube magnet W-12-N ([www.supermagnete.de/eng/W-12-N](http://www.supermagnete.de/eng/W-12-N)) can easily hold a dumbbell of almost 5 kg.



Video

Note from the supermagnete team: It is risky to hang up heavy objects with magnets. Please consider our warnings ([www.supermagnete.de/eng/safety](http://www.supermagnete.de/eng/safety)) under "heavy objects."



Video

This experiment shows clearly how a super magnet influences a compass much more than a normal ferromagnet. Even at a very high distance to the magnet, the needle starts moving.

But not only that: Super magnets can even change the polarity of a ferromagnet. You can see that when you watch where the compass needle points to before and after the ferromagnet had contact with the super magnet.

Finally, this experiment shows that a SuperMagnet can massively demagnetise a normal ferromagnet, so it comes off a magnetic board - almost by itself.

In a next step, the SuperMagnet can give the normal magnet power again, so it sticks to the magnetic board again.



Video

#### **Articles used**

S-20-10-N: Disc magnet Ø 20 mm, height 10 mm ([www.supermagnete.de/eng/S-20-10-N](http://www.supermagnete.de/eng/S-20-10-N))

W-12-N: Cube magnet 12 mm ([www.supermagnete.de/eng/W-12-N](http://www.supermagnete.de/eng/W-12-N))

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