

## Application No. 150: Combining and separating strong magnets

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### That's how you can safely merge and separate strong magnets

The handling of strong magnets can be dangerous. Many customers have to grapple with magnets clinging together and they have a hard time separating them again. Therefore, we would like to show you the approach of Martin Dux.

#### Merging strong magnets safely:

1. Put one magnet (here disc magnet ([www.supermagnete.de/eng/S-30-15-N](http://www.supermagnete.de/eng/S-30-15-N))) on a flat and stable surface. Keep second magnet at a safe distance!
  2. Place a thick and flat piece of wood with a wedge on one side flat on the magnet.
  3. Hold the wood tightly and carefully put the second magnet from the top down on the wood.
  4. Put on thick gloves!
  5. Carefully move the top magnet in the direction of the wedge and slowly merge it with the bottom magnet.
- This way, the magnets won't be damaged. Magnets can break upon strong collision.



#### Separating strong magnets again:

1. Move the combined magnets sideways toward the edge of a table. Place one magnet on the table. We concentrate on the overhanging magnet, which shall be pushed off.
2. By all means, put on gloves!!!
3. Hold the magnet on the table tightly and push the wooden edge down on the overhanging magnet.
4. Push evenly and hard until the wedge slowly makes its way between the two magnets.
5. As soon as the resistance becomes a little less, quickly push down the wedge with the magnet. (If you don't hurry up, the couple could reunite in no time and you have to start over again...)
6. Store the magnets at a safe distance from each other until the next use.



Here, the magnets are not ideally positioned - the edge of the table should actually be exactly under the two magnets!

We from supermagnete think: Actually a practical solution - and you don't have to consult the customer service department anymore, when you can't separate your newly purchased darlings! :-)

#### Articles used

2 x S-30-15-N ([www.supermagnete.de/eng/S-30-15-N](http://www.supermagnete.de/eng/S-30-15-N))

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