

In the first part of these instructions we are going to show you the concept of this magnet motor so you can understand what makes it work, this way it will be easier to build.

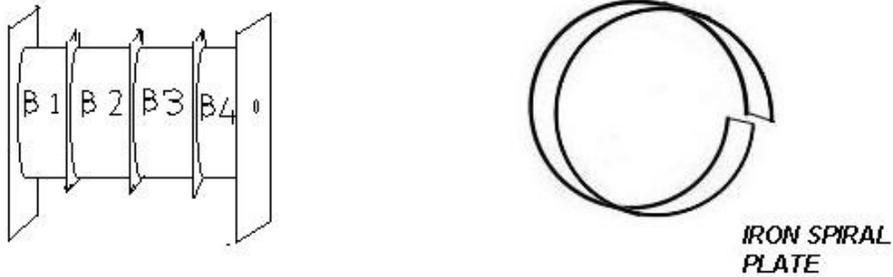
In the second part we will give you the step by step instructions with measurements of how to build this model in a practical way.

PART ONE

THE CONCEPT

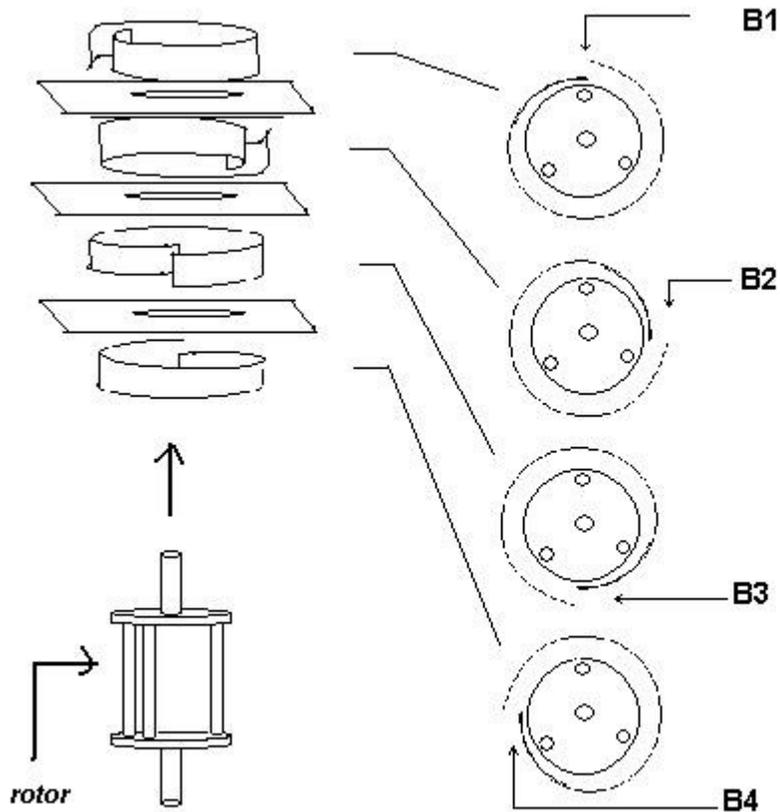
As you can see it's easy to figure out how this magnet motor works. One property of magnetic attraction is that it is stronger at the point where the magnets are closer to each other, the closest it is, the stronger it gets, so with a spiral iron plate around a magnet, the magnet will spin towards the closest part of the loop (loop end), the only problem is when the magnet reaches the closest point, its going to stay there and not continue spinning. To solve that problem we don't use 1 spiral iron plate, we use 4, and we place them on top of each other (fig. A)

Figure A



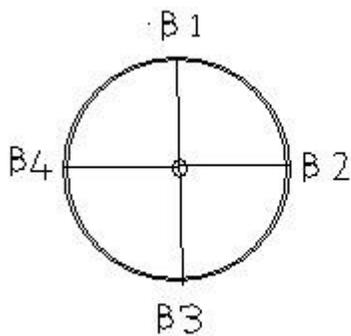
Each loop end (B1, 2...), in a different place to each other so that when the magnet is passing through one end it has the pull of the other 3 spirals to get it through the closest point.

Figure B



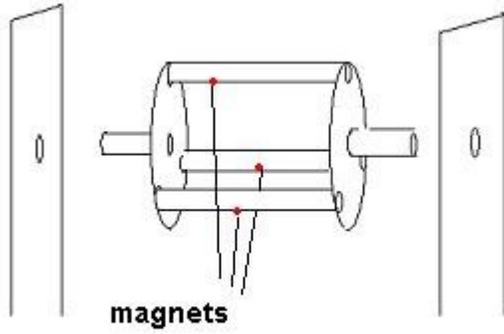
The loop ends should be placed every 90° angle in the circumference so the 4 ends form a cruz (fig. C).

Figure C



The rotor is pretty simple, formed of 3 long slim magnets (fig. M).

Figure M

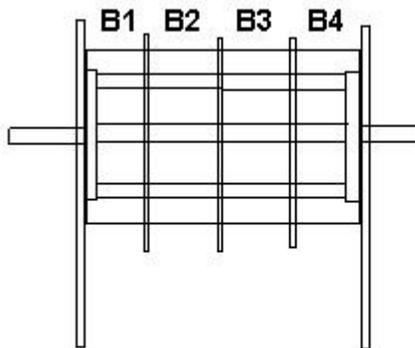


Each magnet placed at 120° angle from each other in the circumference's edge (fig. R)

Figure R



The magnets should be as long as the 4 spiral plates on top of each other.



Note: the spiral plates should be consistent, from the closest part of the loop to the farthest the distance should be increasing gradually in a steady and equal rate(fig. D).

Fig. D

