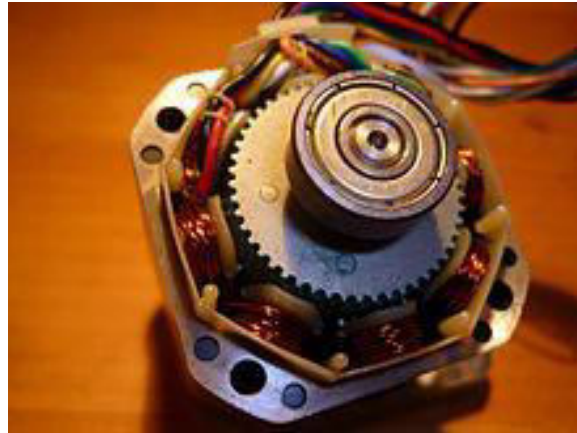

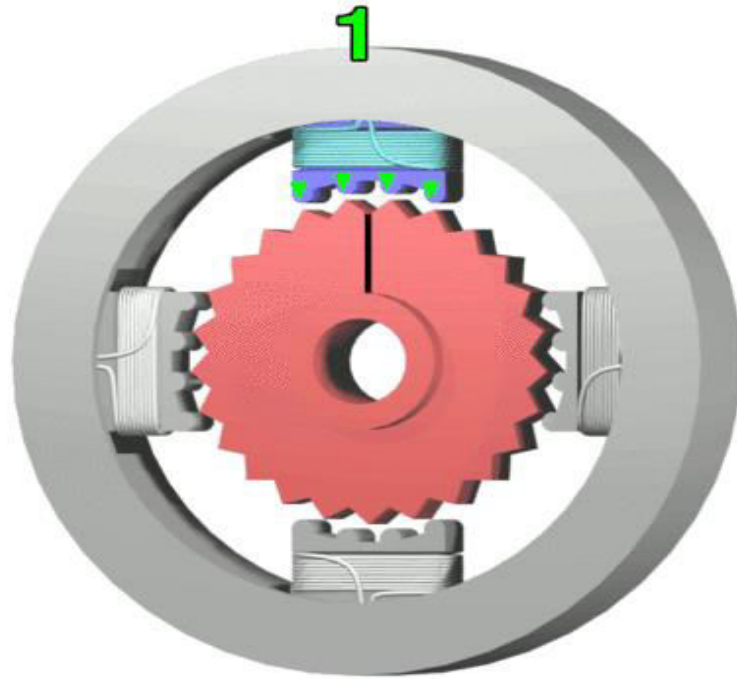


Stepper Motor

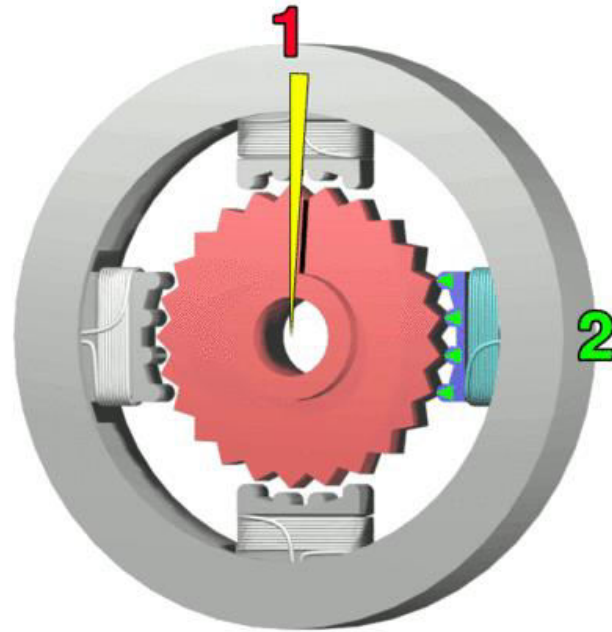




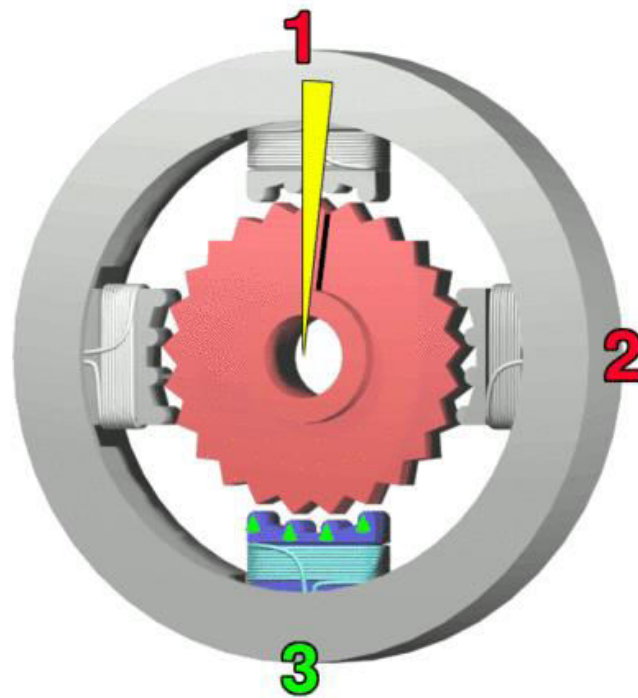
A stepper motor (or step motor) is
a brushless DC electric motor that divides a
full rotation into a number of equal steps.



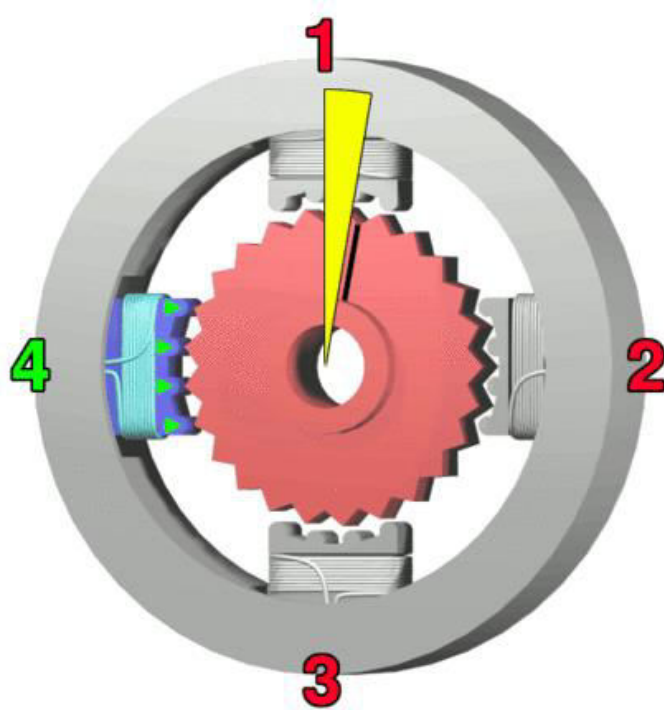
Frame 1: The top electromagnet (1) is turned on, attracting the nearest teeth of the gear-shaped iron rotor. With the teeth aligned to electromagnet 1, they will be slightly offset from right electromagnet (2).



Frame 2: The top electromagnet (1) is turned off, and the right electromagnet (2) is energized, pulling the teeth into alignment with it. This results in a rotation of 3.6° in this example.



- **Frame 3:** The bottom electromagnet (3) is energized; another 3.6° rotation occurs.



Frame 4: The left electromagnet (4) is energized, rotating again by 3.6° . When the top electromagnet (1) is again enabled, the rotor will have rotated by one tooth position; since there are 25 teeth, it will take 100 steps to make a full rotation in this example.