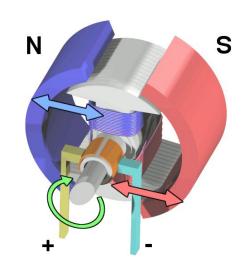
# **DC Motor**

Drives the world around



#### What is A DC Motor?

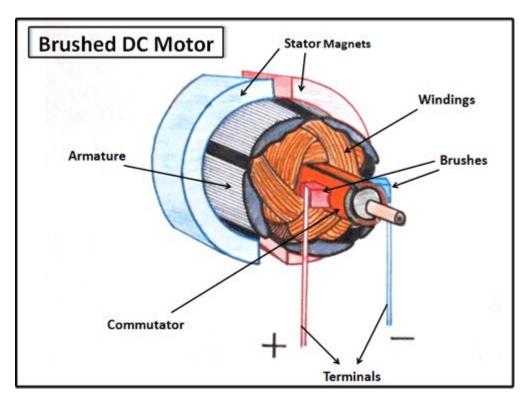
- Type of Motors
  - AC Motor: Motor that runs on Alternating Current electricity
  - DC Motor: Motor that runs on Direct Current electricity
  - Series: high starting torque, speed reduces with increased load.
    Crane. Electric vehicle
  - Shunt: lower starting torque, speed fairly constant with varying load.
    Conveyors, lathes where constant speed required
  - Compound: combines the characteristics of the 2 previous types to produce the desired characteristic with respect to torque and speed



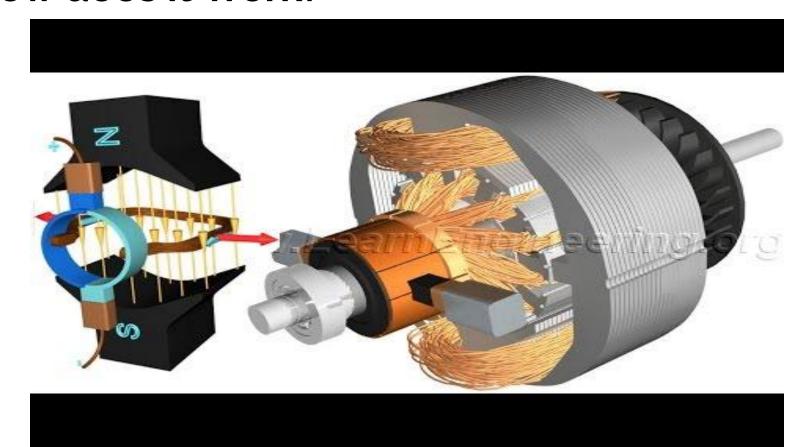
Converts Electrical power into Mechanical Power

#### How is it Made?

 On the right are key elements of the DC motor that make it DC motor, such as the Terminals from where the electricity goes in & out from, Also the Windings which is used to interact with the Magnetic Field of the Stator Magnets.

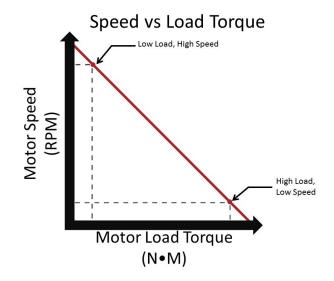


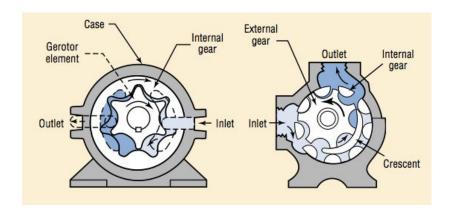
### How does it Work?



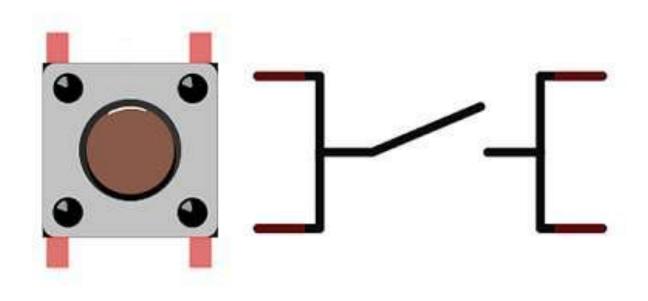
#### DC Motor vs Gear Motor

- Gear Motor consists of gear(s) to adjust it's torque & speed
  - As Torque goes up, Speed Comes Down
- An Example:
  - A microwave has Gears so it doesn't go fast & throw the stuff inside everywhere.

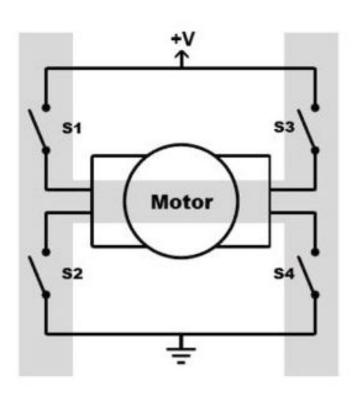




### N.O. Push Button - new component



# H-Bridge



## H-Bridge

