Brushless Motors(BLDC):

Explained In Simple Words.





This Motor Type Powers:

your drone, your laptop fan, even EV cars

O1 Silently...





Why the world is switching to brushless motors?

- The brushes are gone.
- They are faster.

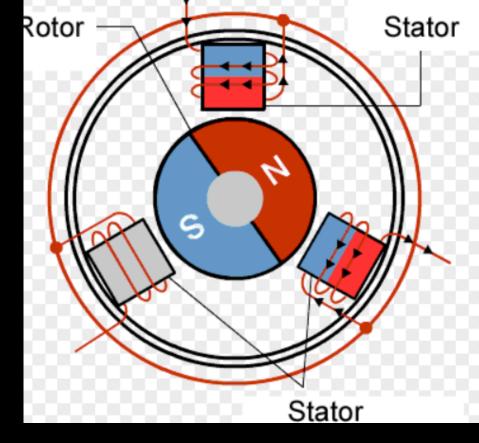
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- They work longer.
- They provide higher efficiency.





What is a Brushless Motor?



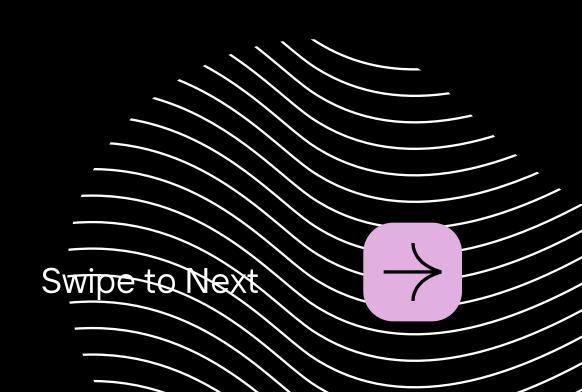
A BLDC motor is an electric motor where

- Magnets are on the rotor
- Coils are on the stator
- Switching is done electronically

No brushes, no wear & tear







How They Work..?

-They convert electrical energy to mechanical energy.

-We use this mechanical energy to spin and rotate fan blades.







Brushed vs BLDC Motor Working

 Connect two wires of standard motor to power supply & motor rotates

• BLDC has three wires connected to a speed controller(ESC) to operate.





BLDC Motor Structure

- Three wires

 representing three
 phase of motor
- Shaft is a long rod that goes from base to outside of motor.
- Clip is an attachment to hold the shaft in position



 Stator is stationary part of motor that generates magnetic field

 Rotor is the moving part of the motor that moves around mechanically.

Permanent magnets
 present inside the rotor



ENGINEERS LOVE BLDC MOTOR BECAUSE THEY ARE EASY TO CONTROL WITH ELECTRONICS.

REPOST & SAVE

