A Hysteresis Motor is a synchronous motor with a uniform air gap and without DC excitation.Construction of Stator of Hysteresis Motor The stator of the hysteresis motor produces a rotating magnetic field and is almost similar to the stator of the induction motor.The Torque in a Hysteresis Motor is produced due to hysteresis and eddy current induced in the rotor by the action of the rotating flux of the stator windings.The rotor of the hysteresis motor moves synchronously because the pole of the motor magnetically locks with the stator which has opposite polarities.The working of the motor depends on the working of the continuously revolving magnetic flux.It operates both in single and three phase supply.

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