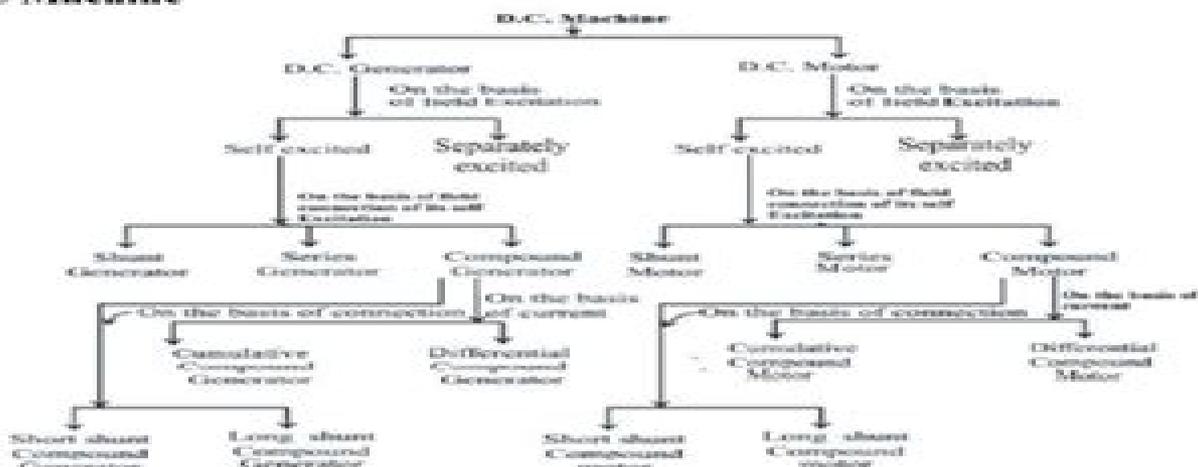


ELECTRICAL MACHINE-I

■ DC Machine



Construction Of DC Machine → Same for both DC motor and DC generator

Stator

- It is the outer part of DC machine.
- It contains pole core, pole core has pole shoes which are laminated.
- Pole core contains field winding.
- Pole shoes are used for spread out the flux in the air-gap uniformly.

Rotor

- It is the inner part of DC machine.
- It has armature core and armature winding.
- Armature core made of laminated silicon-steel.
- Armature windings done in armature's core slots.
- Armature is keyed to the shaft.

Remember point

Yoke of large DC machine is made of 'cast steel' and for small DC machine 'cast iron' is used.

• Commutator-

- It is a rotating part of DC machine.
- It lies at rotor shaft.
- It maintains electrical connection between rotating rotor and stationary brushes.
- It is made of 'Hard drawn copper' and 'mica insulation' provided to insulate the commutator segments.
- Due to the limitation of commutator, DC generators are not usually designed beyond 650V.

- ✓ In dc machine, number of commutator segments are equal to the number of armature coils.
- ✓ The main function of commutator in a DC machine is to change AC voltage into DC voltage and vice-versa.
- ✓ For DC Generator commutator is known as 'mechanical rectifier' or 'rotating rectifier'.
- ✓ For DC Motor commutator is known as 'mechanical inverter' or 'rotating inverter'.

Remember point

- According to voltage and current requirement, Armature winding can be connected in two ways-

1. Lap winding.
2. Wave winding.

Lap winding	Wave winding
It is a complete winding so, mechanically balanced.	It is incomplete winding so, mechanically unbalanced. To make it balance, a 'dummy coil' is used.
Here, number of parallel path is equal to number of pole. $A = P$	Here, number of parallel path is always equal to two $A = 2$
Here equalizer ring used to stop circulating current.	Winding where 'dummy coil' is used called 'forced winding'.

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