

DC machines are essential in various industrial applications, and understanding their constructional features and working principles is crucial.

Separately Excited DC Motor Circuit:

- o Field winding connected to separate DC source – Armature connected to DC source through controller

Self-Excited DC Motor Circuit:

- o Series-Wound: Field winding in series

Types:

- Series-Wound (e.g., universal motors)
- Shunt-Wound (e.g., dynamos)
- * Compound-Wound (combination of series and shunt)

***Circuits for DC Machines:**

- * 1. Here's an overview of DC machines, focusing on separately excited and self-excited types:

***Constructional Features of DC Machines:**

- * 1. Stator: Stationary part containing magnetic poles. Magnetic field interacts with armature current, producing torque.
- 2. 3. 4. 5. 6. 7. 2. 3. 4. 2. 3. 2. 3