

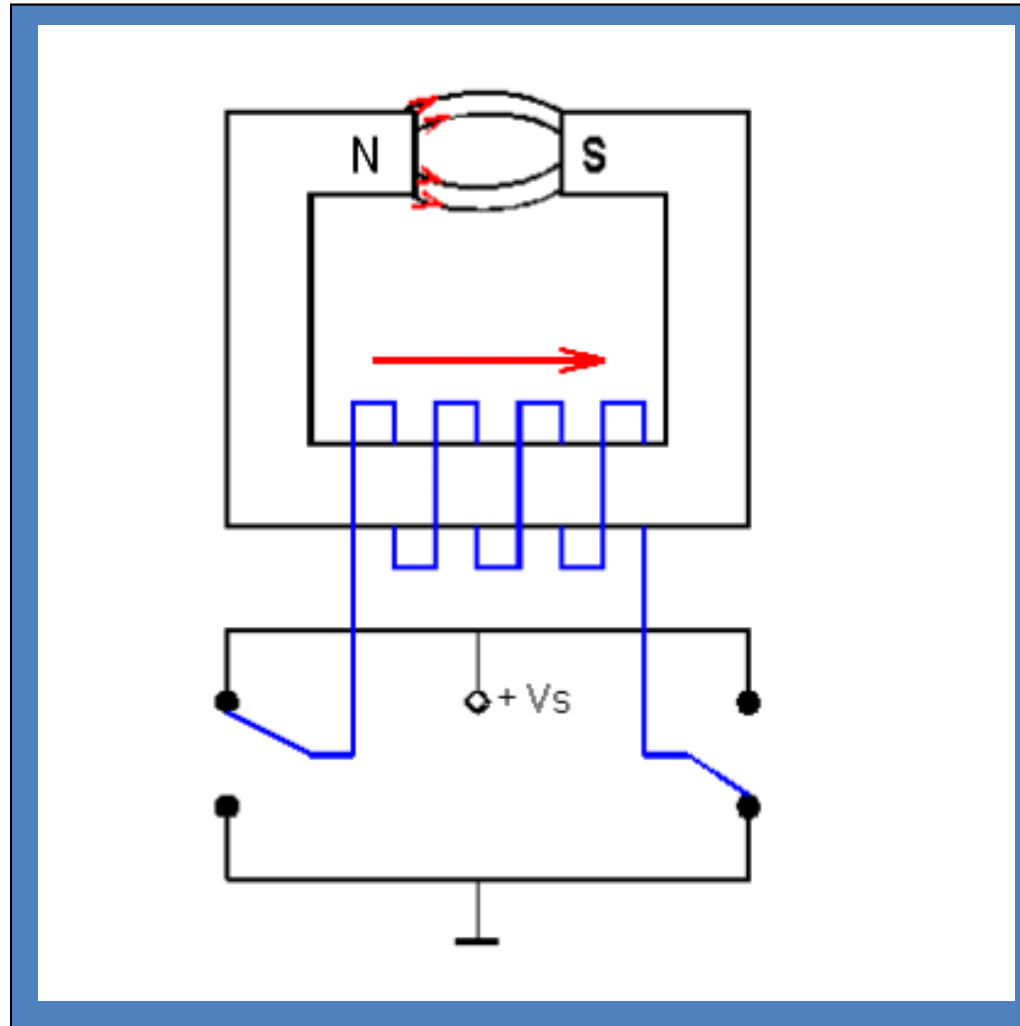
# **Special Electrical Machines**

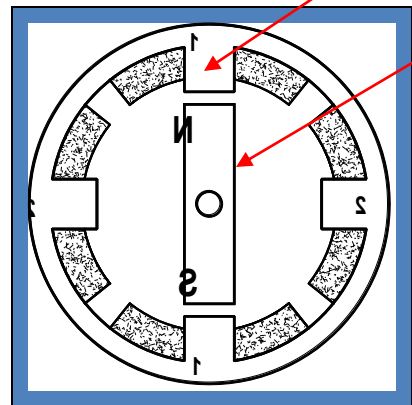
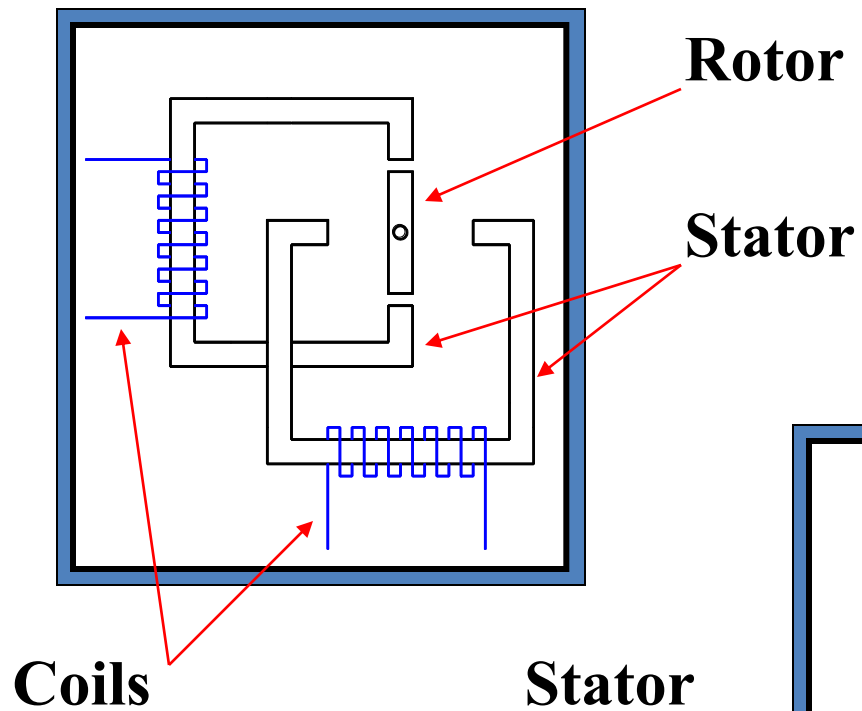
# **UNIT-III**

## **Stepper Motors**

- Principle of operation,
- variable reluctance, permanent magnet and hybrid stepper motors,
- Characteristics
- drive circuits
- applications.

# Stepper Motor / Electro magnet

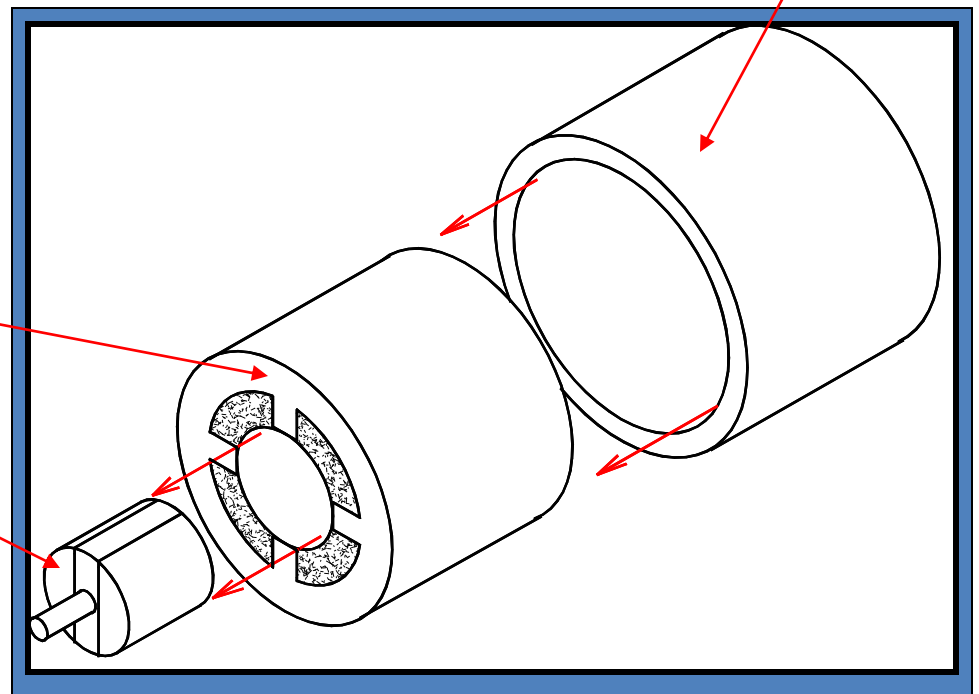




**Stator**

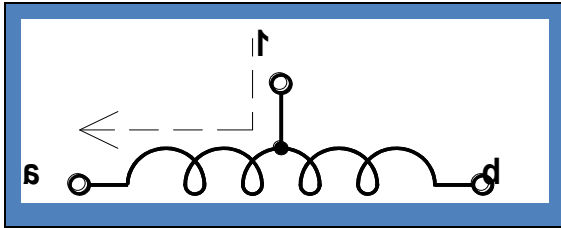
**Rotor**

**Outside Casing**



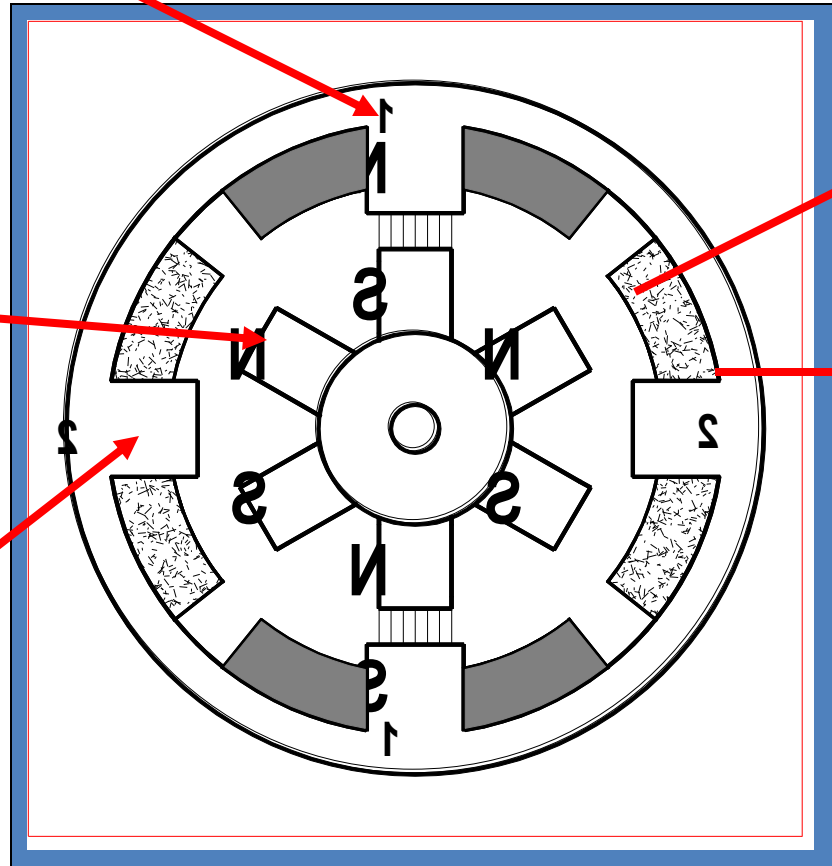
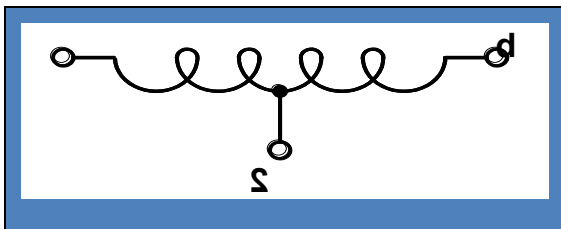
**Internal components of a Stepper Motor**

**Winding number 1**



**6 pole rotor**

**Winding number 2**



**One  
step**



**THANKS....**

Queries Please...