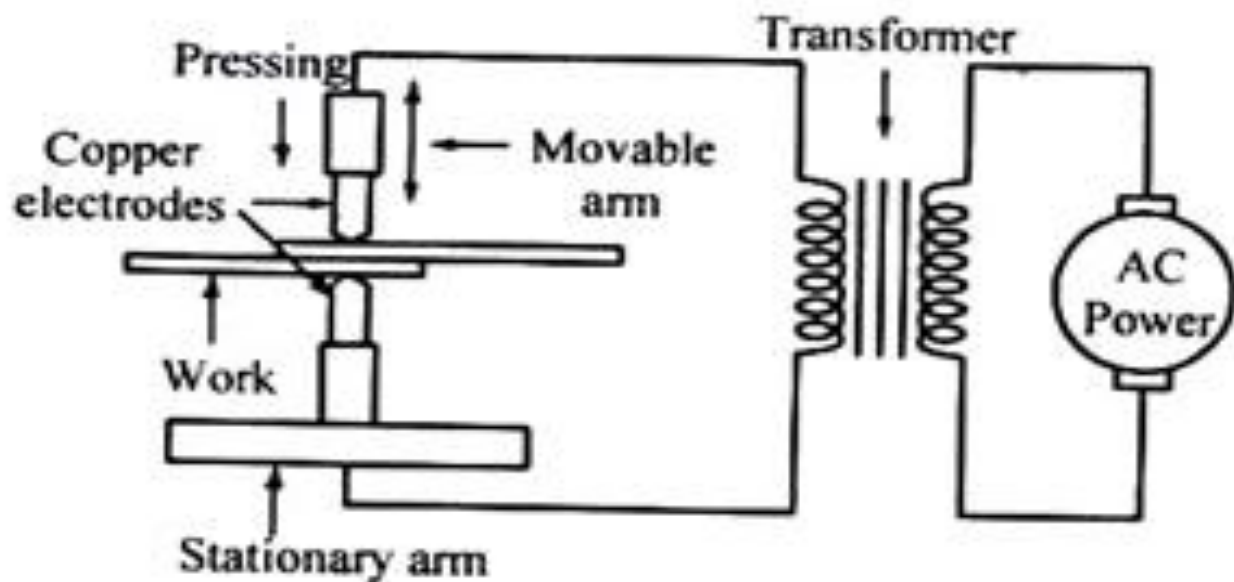


# RESISTANCE WELDING

In all resistance welding processes the heat is generated at the interface of contacting workpiece due to the resistance offered to the flow of electric current and is expressed by Joule`s law.

## TYPES OF WELDING IN THIS CLASS

- ✓ Seam welding
- ✓ Spot welding
- ✓ Butt-welding
- ✓ Projection welding
- ✓ Stud welding
- ✓ Percussion welding



*Resistance welding*

The heat generated in the weld may be expressed by

$$Q = I^2 R T$$

Where,  $Q \Rightarrow$  heat

$I \Rightarrow$  Current in amps

$R \Rightarrow$  Resistance of the assembly

$T \Rightarrow$  Time of current flow