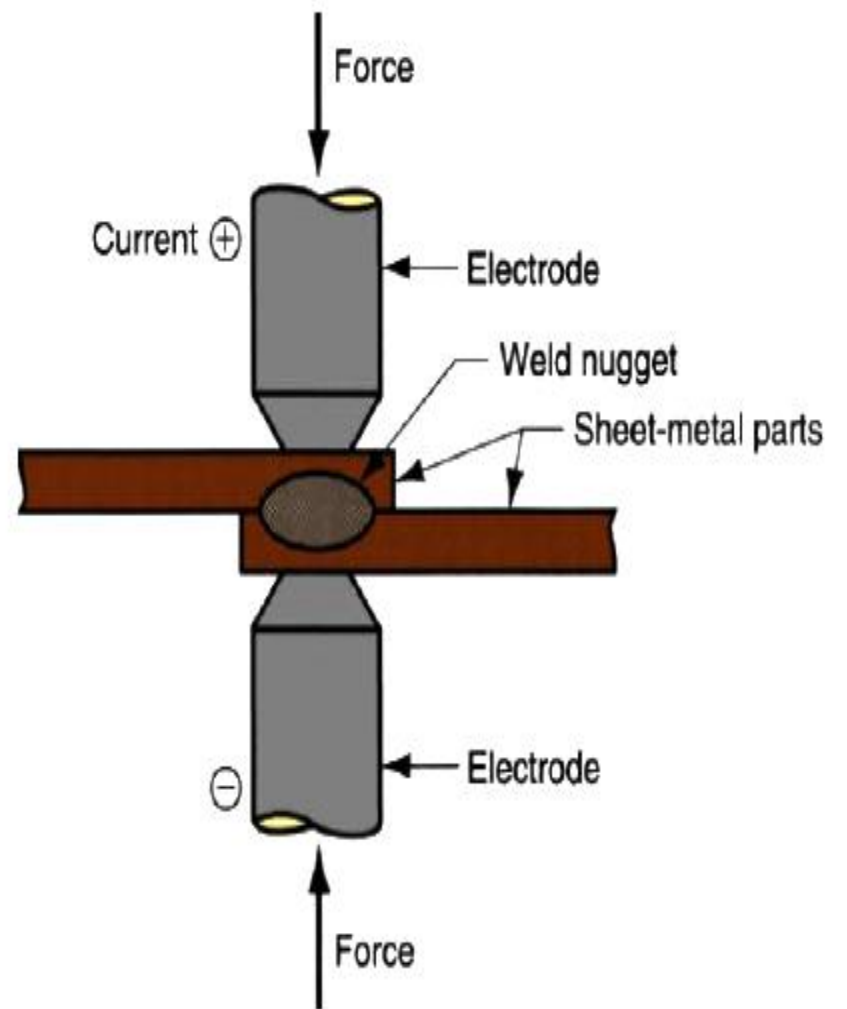
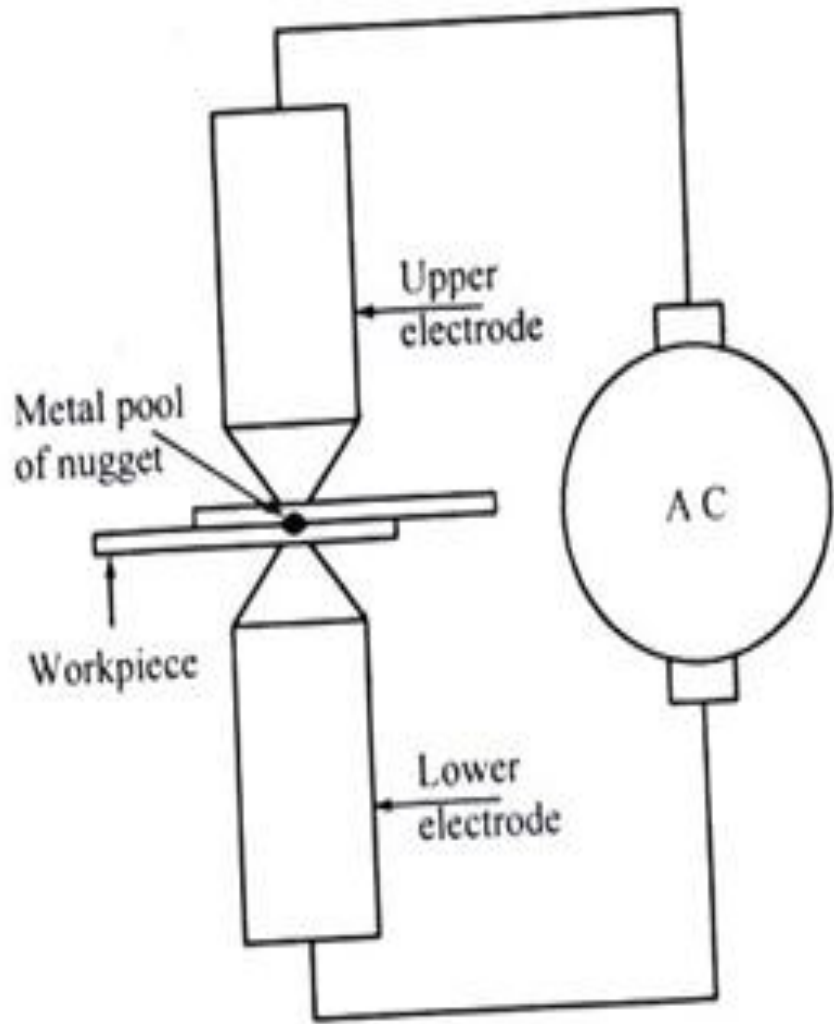


Spot welding

- ✓ Spot welding is used for making lab joints
- ✓ In this method, metal sheets from 0.025mm to 1.25mm thickness can be easily welded
- ✓ The metal pieces are assembled & placed between two copper electrodes & then current is passed.
- ✓ The parts are heated by electrical resistance
- ✓ Then the electrodes are pressed against the metal pieces by mechanical or hydraulic pressure
- ✓ The high resistance between the joint faces causes rapid heating and fusing of a small globule of metal from both faces.

- ✓ The electrode pressure can be in the range of up to 2KN
- ✓ They are made of cold rolled electrolytic copper- transfer or molybdenum alloy.
- ✓ Electrodes are cooled with water during operation to prevent overheating
- ✓ Spot welding can be done on metal strips upto 12mm thick
- ✓ All combination of ductile metals & alloys can be spot welded.





Advantages:

- ✓ No filler metal required
- ✓ High production rates possible
- ✓ Lower operator skill level than for arc welding
- ✓ Good repeatability & reliability

Disadvantages:

- ✓ High initial equipment cost
- ✓ Limited to lap joints for most processes.

SEAM WELDING

- ✓ The rollers allow the workpiece to move through the welder continuously. A stream of electrical pulses pass through the rollers and welds the joint

