

Applications: Injection Molding Machines, Extruder Machines, Blow Moulding Machine.

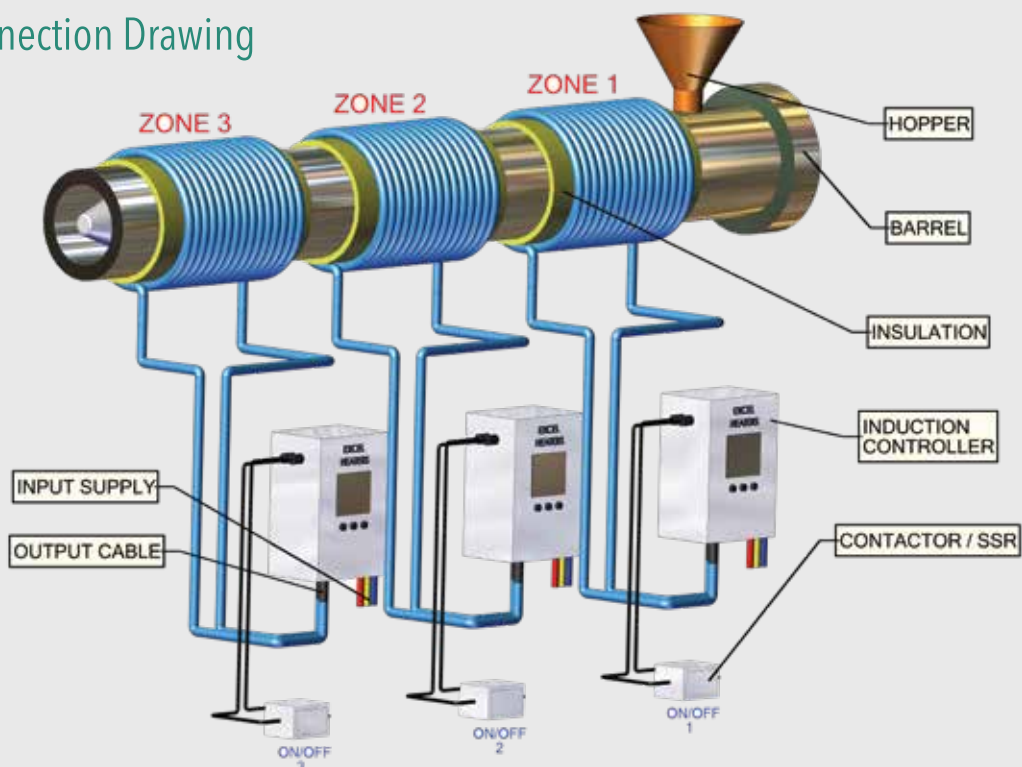
Working Principle

In the current technology of heaters (ceramic/mica heaters), heat is transferred to the barrel by means of conduction. However, the induction heater uses magnetic field to directly generate heat in the barrel. In the figure, the blue cable denotes the copper cable with special insulation coating to enhance magnetic field. It is wound around the grey barrel like a solenoid. Cable produces alternating magnetic field, which gets linked with the barrel directly generating heat in the barrel. Note blue cable does not get heated, thus keeping the exterior cool and lower the factory ambient temperature. IH heater starts producing almost heat instantaneously. Therefore, Induction heater can achieve temperature in half the time as compared to traditional band heaters.

**UP TO 70%
POWER SAVER**

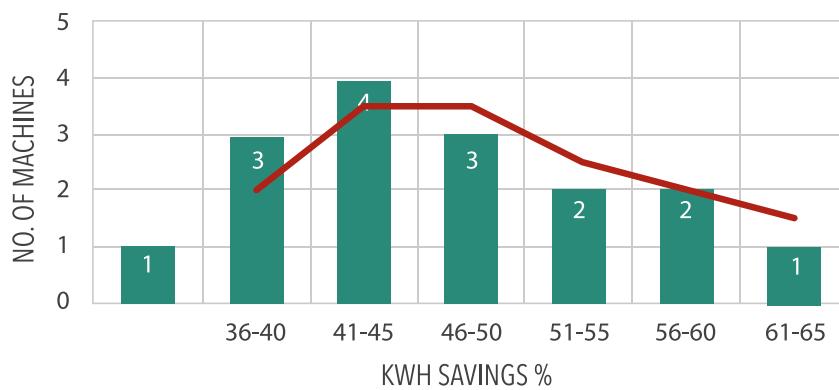


Electrical Connection Drawing

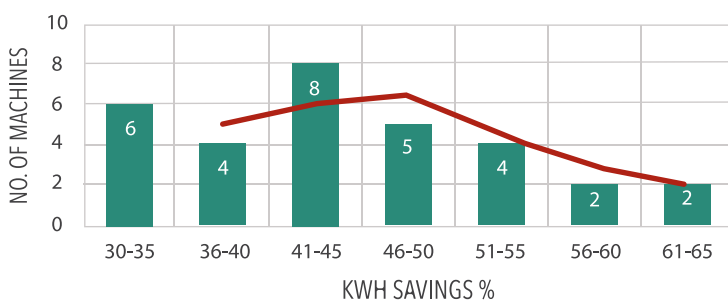


- ▶ **Power Saving up to 70%**
- ▶ Distributes heat uniformly – better quality of output product
- ▶ High heating speed – achieves temperature in half the time as compared to band heaters
- ▶ Instant heating and cooling response improving quality
- ▶ Lowers total harmonic distortion – protects other electronics
- ▶ Lowers factory ambient temperature (max sheath temperature of 70°C) – reducing air conditioning expenses
- ▶ Longer Working Life of the heaters
- ▶ Maintenance of the heater is easier - controller will display any fault with the heater and can be easily fixed.
- ▶ Higher Safety Features

Power Saving of 15 Blow Moulding Machines



Power Saving of 25 Extruder Machines



Power Saving of 30 Injection Machines

