



## INDUCTION SINTERING



[www.sigmatherm.in](http://www.sigmatherm.in)



### Induction Sintering:

Sintering is the process in which heat is produced within the mould when it is subjected to an electromagnetic field, generated by using an Induction Heater. The mould is made out of graphite or steel, and pressure is applied by one or two cylinders onto the punches. The mould is positioned within the induction coil. The advantage here is that the pressure and the inductive power are completely independent. Even powders with a liquid phase are amenable to this process and low pressures are possible.

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### Advantages of Induction Sintering:

- Uniform Heating and consistent quality.
- Better Finish.
- Light weight mould can be used.
- Short time cycle.
- Easy to handle and control.
- Small quantity batch possible.
- Power saving in case of power interruption only single mould is affected.
- Less rejection.

### Edvantage:

- Quick and total solution of coil design & fixture based on years of experience.
- Rugged and reliable equipment
- Excellent after sales service.
- Inbuilt safety circuits for machine & operator
- ED equipments are designed for continuous operation of 24 hours a day and 365 days a year. Hence it is more suitable for continuous operation.

### OR

- Due to 100% duty cycle operation possible with ED equipments it is more suitable for continuous heating operations like Annealing.
- Quick & easy solutions possible
- Due to its ruggedness trouble free operation. It can run continuously.
- Good after sales services.

### Equipment Supplied for Sintering

Model No.	Power	Frequency	Job Example
EDI-05	5kw	50-80kHz	Dressers, Segmented Saws
EDI-10	10kw	50-80kHz	Segments, Diamond Beads
EDI-15	15kw	50-80kHz	Polishing Wheels
EDI-20	20kw	50-80kHz	Polishing Wheels
EDI-25	25kw	50-80kHz	Polishing Wheels
EIFG-75	75kw	6kHz	Polishing Wheels

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