

Aluminum Die Induction Heater (Die Oven)



M/s Yogi Exim (Angel Techno) manufacturing new die induction heater (Die Oven) Highly Effective Magnetic Energy with more Electricity powder saving.

Normal Old Die Oven Detail-

NO	NAME	
1	Applied Mould Specification	On Request
2	Highest Appliance Temperature	550° C
3	Normal Temperature Heated To 500° C Time	3-4hr
4	Every Chamber Power	9-330kw
5	Mould Quantity Of Every Chamber	1-6sets
6	Chamber Quantity	1-6pcs
7	Blower Power	1.1-7.5kw
8	Power Capacity	18-700kw

The Die rapid heating furnace production efficiency is a traditional electric resistance heating furnace's 10 times.

New Die Oven Technical Parameters:-

- 1) Application: equipped with extruding machine, used for heating before the die is applied.
- 2) For OD=130—OD=320mm aluminum bar's die (customized according to demands)
- 3) Heating method: magnetic energy induction heating
- 4) Maximum input power: 8~ 15KW
- 5) Input voltage: tri-phase, 380V t 440V, 50-60HZ
- 6) Oscillating frequency: 10K—150KHZ

- 7) Cooling demands: wind cooling
- 8) Load duration rate: 95%
- 9) Temperature controlling method: PID automatic temperature control
- 10) Operational method: Automatic

Comparing table of new and old heating method for extrusion die (diameter 200mm)

Item	Old Die Oven	New Die Induction Dei Heater
Heating Method	Electric Resistance Wire, Oil Coal Or Gas Heating Box	Highly Effective Magnetic Induction Energy
Operation Method	Artificial	Automatic
Heating Time	≥180-200 Minutes	≈20-30 Minutes
Uniformity Of Temperature Rise	Partially Overheating For along time	Heating From Inside To Outside With Uniformity
Temperature Controlling Accuracy	Unstable, Inaccurate	Stable, Small Temperature Difference
Heating And Thermal Reservation Time	Artificial	Can Be Set
Energy Consumption	High	Less
Environmental Influence	Smoke And Dust, High Environment Temperature	No Smoke And Dust, Low Environment Temperature
Heating Device Arrangement	Fixed	Movable
Device Volume	Very Big	Small

Power Saving Detail-

In traditional die oven (heating coil type) we need a power for full day. Regular die heater needs 450KWH to 500KWH. Per unit approximate rate is 5.50 Rs/unit so 1 day (24 hours) electricity charge comes around 2700 to 3000 Rs. Per day.

In advance special heater works as cyclic timer. It remains on or off as per parameter setting so it needs 252KWH. Per unit approximate rate is 5.50 Rs/unit so 1 day (24 hours) electricity charge comes around Rs. 1400/-. New die heater save energy up to 50% per day.