MODEL	Unit	TH-30	TH-60	TH -120
Supply voltage at 3 phrase. 50HZ	V	415	415	415
Input power at max. current	KW	30	60	120
Max. Input Current	A	42	84	167
Oscillating Frequency	KHz	10 - 40	10 - 40	10 - 40
Duty Cycle	%	100	100	100
Range of bar heating	mm	Dia 16 - 20	Dia 20 - 30	Dia 30 - 40
Heating Time	secs.	0 - 180	0 - 180	0 - 180
Cooling water (control panel)	L /min. at 2.5 kg / cm^2	25	40	60
Cooling water (transformer)	L /min. at 2.5 kg / cm^2	25	40	70
Dimensions (control panel)	mm (L X B X H)	365 X 500 X 790	400 X 540 X 970	500 X 600 X 1380
Dimensions (transformer)	mm (L X B X H)	320 X 320 X 310	410 X 470 X 385	405 X 555 X 380
Cable cross section in copper	3 core (sq. mm)	14	28	56

Note : The information and illustration in this catalogue are subject to alterations due to constant endeavour to update design

KEJETHERM *The Innovative People*

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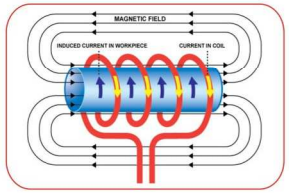
INDUCTION HEATER



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Principle

In a basic setup , a solid state RF power supply sends an AC current through a copper coil and the part to be heated is placed inside the coil. The coil serves as the transformer primary and the part to be heated becomes a short circuit secondary.
When a metal part is placed within the induction coil and enters the magnetic field , circulating eddy currents are induced within part .These eddy currents flow against the electrical resistivity of the metal, generating precise and localized heat without any direct contact between the part and the coil.



Application

Wide range of products can be heated not restricted only to :

- Bolt heads, nuts, fasteners etc.
- Melting of metals.
- Soldering, Brazing.
- Used for hot forming of pipes and tubes.
- Heat treatment of various jobs.



HEATING APPLICATIONS



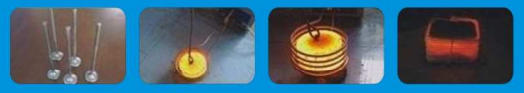
MELTING APPLICATIONS



SOLDERING BRAZING



FORGING



HEAT TREATEMENT

Advantages

- Since heating induced, surface treatment not required.
- Easy automation since job doesn't come in contact.
- Clean heating.
- Quite efficient, 72% on an average.
- Compared by heating with gas, fuel or coal, INDUCTION HEATERS work out cheaper.
- Environmental friendly.
- Heat up instantly and is consistent.
- Energy saving 10% -25%.
- Lesser area required as compared to other sources.





INDUCTION HEATER ATTACHED TO A FEEDING SYSTEM WITH VIBRATORY BOWL

A TYPICAL CYCLE : 60 kw induction heater, 30mm dia x 72 mm length of steel blanks weighing appx. 400 gms heating upto 1100° C, production rate being 240 pcs/hr.

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