

INDUCTION BILLET HEATING

Induction billet heating is an energy – efficient, fast, and precise process that uses electromagnetic induction to heat metal billets (steel, copper, aluminum) to forging or extrusion temperatures. Alternating current in a coil generates eddy currents inside the metal, producing rapid, uniform, internal heating. It reduces scale formation, lowers energy consumption by up to 50% compared to gas furnaces, and allows for precise temperature control.

Galaxy inductions manufacturing of all type of billet heating machine (MS process copper, brass, aluminum). Today's over machine fully program with automation design.

❖ SALIENT FEATURES

- ✓ Superior Efficiency & Speed
- ✓ Energy & Cost Savings: Uses
- ✓ High Quality & Consistency
- ✓ Reduced Oxidation & Scaling
- ✓ Automation & Integration: Easily
- ✓ Highest System Efficiency
- ✓ Eco-Friendly & Safe
- ✓ Automation Available
- ✓ Low Power Consumption
- ✓ Uniform Heating Temperature
- ✓ Inbuilt Safety Features
- ✓ Non-Polluting
- ✓ Repeatable Process Control
- ✓ Continuous Billet Heating
- ✓ Reduced Material Loss Due To Scaling



❖ BILLET HEATING APPLICATIONS

- ✓ Billet Heating For Forging
- ✓ Bar End Heating
- ✓ Brass Bar & Fitting
- ✓ Copper Bar & Component
- ✓ Aluminum Bar & Flat Forging
- ✓ Railway Bolt Forging
- ✓ I Bolt Forging
- ✓ SS & MS T & Elbow Forging
- ✓ Surgical Component
- ✓ All Type Of Electrical & Hardware Forging
- ✓ Component Forging



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SOME OF THE APPLICATION RELATED COMPONENTS

❖ TECHNICAL SPECIFICATIONS

| MODEL NO. | GIDLX | GISUDLX | GIPSUDLX | GIPSUDLX |
|--|-------------------------------|-------------------------------|-------------------------------|------------------------------|
| POWER RANGE | 20 – 40 KW | 40 – 80 KW | 80 – 120KW | 120 – 400KW |
| FREQUENCY RANGE | 03 – 20 KHZ | 05 – 20 KHZ | 03 – 20 KHZ | 03 – 08 KHZ |
| <u>ADDITIONAL TO CHANGE</u> LOAD AND MATERIAL | YES | YES | YES | YES |
| <u>LOAD SENDED</u> SELF TUNNING | YES | YES | YES | YES |
| SIZE | L - 32" | L - 55" | L - 40" | L - 40" |
| | W - 22" | W - 30" | W - 40" | W- 40" |
| | H - 50" | H - 60" | H - 60" | H - 60" |
| INPUT POWER RANGE | THREE PHASE 440 V / 50 HZ. | THREE PHASE 440 V / 50 HZ. | THREE PHASE 440 V / 50 HZ. | THREE PHASE 440 V / 50 HZ |

