



## Line Frequency System for Stator Heating

The **Ross™** line frequency system will heat steel, aluminum, powdered metal, nodular cast iron and other materials quickly and efficiently.

Our compact design reduces floor space, work in process and energy consumption. **Ross™** induction technology minimizes or eliminates large curing ovens.

### Features/Benefits:

- Low power consumption. Induction heats only the product, not the plant. No “idle” power consumption with induction heating technology.
- Fast, precise, repeatable and efficient heating
- Occupies a fraction of the space needed for a conventional oven
- Flexible design accommodates a wide range of stator or rotor heights and diameters
- Completely self-contained and easy to relocate within the plant as products and layouts are changed
- Modular tooling enables unit to be reconfigured to process widely varying parts
- Integral modular pneumatically operated PLC controlled lift with fixed/adjustable positive stops
- Standard design includes Allen Bradley PLC controls and NEMA rated electrical devices. “Heat-on” timer or optional infrared controller.

## Heavy-Duty Rugged System

Our **Ross™** is a premier induction heating system constructed of heavy-duty steel and machined tooling plates for high volume production environments.



## Flexible Modular System

Interchangeable tooling packages allow stators, rotors, housings, armatures, gears, bearings or DC armatures to be heated. This unit is ideal for high volume production or rapid prototype work. Lower your manufacturing costs by utilizing a fraction of the floor space and energy.

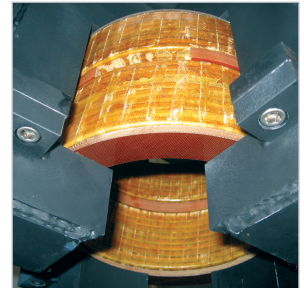
## Designed For Long Life Performance

Components and designs are field proven with more than 40 years of experience behind each machine. All equipment and tooling is backed by the world's largest manufacturer of induction heating equipment.

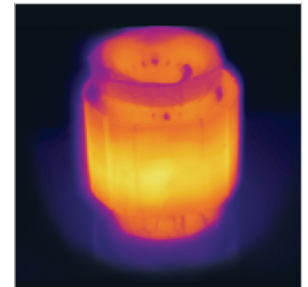
## Line Frequency System for Stator Heating

### SPECIFICATIONS:

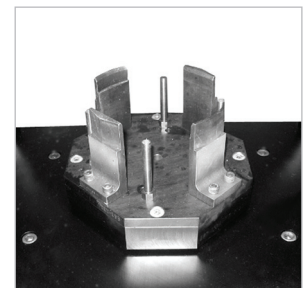
<b>Standard Power Ratings</b> (Other sizes available upon request.)	25, 50 and 75 kVA, 50/60 Hz, single phase
<b>Cooling System</b>	Standard water-to-water and water-to-air closed water recirculation systems.
<b>Controls</b>	Allen Bradley PLC Micrologix 1200 (24 volt DC)
<b>Available Mechanical Modules</b>	Part Lift, Part Lower, Coil Lower, Stationary
<b>Maximum Part Weight</b>	Module Dependent
<b>Shipping Weight</b>	1200-1500 lbs. (545-680 kg) module dependent
<b>Machine Dimensions</b> Width x Depth x Height	32" x 42" x 72" (800mm x 1060mm x 1820mm)
<b>Plant Water Requirements</b>	2 gpm @ 50psi @ 110°F max. (7.6 lpm @ 3 bar @ 43°C max.)
<b>Plant Air Requirements</b>	10 cfm @ 50 PSI (1.0 cubic meter per min. @ 3 bar)
<b>Safety Features</b>	Extruded aluminum. Ergonomic safety light curtain.
<b>Options/Accessories:</b> Infrared temperature control, HMI, custom tooling for armatures, rotors, stators, motor housings, permanent magnet motor bonding, gears and bearings.; Other mechanical system modules available.	
*Specifications are subject to change without notice.	



Line frequency inductor



Thermography to validate temperature uniformity



Flexible modular tooling



ISO 9001:2000 Certified

### Temperature Distribution After Heating: Large Stator

