



ISO 9001:2008 Certified Company

## ELECTRICAL LADLE PRE-HEATER

### BENEFITS

- Reduction in Operational Cost upto 90% as compared to the fossil fuels (Oil, Diesel, PNG, LPG) fired Ladle Pre-Heaters.
- A 'Zero Carbon Product' - No production of carbon emissions derived from the product.
- It can be customized for any capacity ladle.
- Easy to replace bundle rod heating elements.
- Simple in construction as the combustion system is eliminated.
- Least maintenance
- Improved temperature uniformity
- Improved life of ladle lining
- The Ladle Preheater is electrically powered. Hence there are minimum chances of any hazardous accidents during operation.
- The electrical ladle pre heater would have a clean surrounding as there are no flue gases or oil leakages etc. around it.
- Smooth vertically upward and downward motion is obtained due to the use of guide rails with the motion control system.



### GLOBAL RECOGNITION

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Sriram Viji, MD, Brakes India and Kamal Balli, President and MD, Volvo Group in India, at the launch of Green Castings for Volvo engines at Brakes India Foundry at Naidupet, Andhra Pradesh | Photo Credit: BIJOY GHOSH

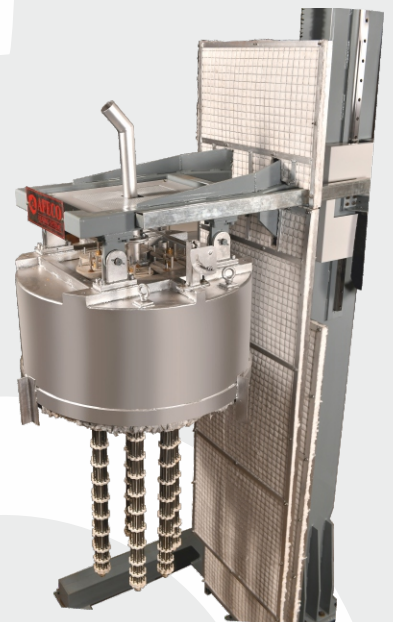
These green castings utilise scrap, alloys and raw materials which are 100 per cent free of radioactive material

Volvo Group in India on Thursday launched its first green casting built by Brakes India that will go into building its engines. India is one of the key sources for Volvo Group's global casting requirements.

The manufacturing plant will operate on solar and wind energy, and will eliminate the use of diesel with electric ladle

preheater, a solution developed with Afeco India.

The first in India of its kind - the Electric Ladle Pre-Heater manufactured by AFECO, has received global recognition from the VOLVO Group as an Energy Efficient alternative for Gas Fired Ladle Pre-Heater



## HIGHLIGHTS

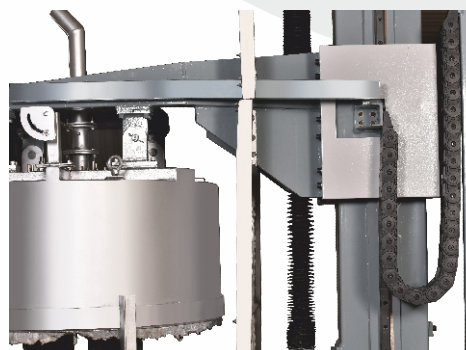
- SEW Geared Motor for Lid Up down Motion
- THK Japan Make Guide Rails
- KANTHAL A1/AF Make Bundle Rod Heating Elements
- Heavy and Robust Structure
- Low Surface Load for Long Life of Heating Elements
- High-Quality Insulation
- Perfect Sealing to the Ladle
- No Heat Loss



SEW Geared Motor



Bundle Rod Heating Elements



THK JAPAN Make Guide Rails



Control Panel

## HIGHLIGHTS OF THE CONTROLLING SYSTEM

- AFECO electrical ladle heaters are delivered together with control equipment specially designed by AFECO to ensure optimal heater operation.
- This innovative control and regulation system optimizes performance and eliminates over-heating in order to prolong the lifetime of the heater. It also ensures maximum and consistent power using the Advanced PID temperature Controller and Thyristor Power Controller.
- Manufactured using components from global industry leaders
- Advanced PLC (SIEMENS) or budget equipment.
- Multiple com protocols – Modbus – Profibus – Ethernet IP
- User Defined Rate of Heating, Recipe Control and Timer Control



Mfr.: Industrial Ovens, Furnaces  
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