

# INDECK<sup>®</sup>

## Improved Cinder Return Nozzle for Stoker Fired Boilers



New IKE Cast Steel  
Cinder Return Nozzle

Indeck Keystone Energy has developed an improved cinder return nozzle for use on IKE boilers firing non-standard solid fuels that burn hotter and contain more material in the re-injection stream.

This new nozzle, designed with high heat and wear resistant characteristics, has achieved very successful results in operation.

### **Features**

- The new cinder return nozzles are made from hardened cast steel that has excellent abrasion and wear-resistant characteristics.
- The nozzle's cast steel has a tendency to become work hardened by the abrasion and impact action of the cinder material
- The hardened cast steel has a high hardness number, yet is stronger than the original cast iron nozzle

### **Application**

All new solid fuel fired IKE boilers are furnished with these new cinder return nozzles. These new nozzles are also available as direct replacements for the cast iron nozzles originally supplied on existing units.

### **Benefits**

- The new nozzle's remarkable durability provides resistance to the abrasive particles that are re-injected into the boiler
- The new nozzle becomes more abrasion resistant the longer it stays in service
- The hardness of the nozzle material results in a non-brittle nozzle that is easier to handle and is more tolerant of high heat fluxes in the furnace

For more information,  
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