



HOFFMAN

STOKERS



The **HOFFMAN FIRITE** is the original forced draft spreader type stoker... the pioneer of its kind... A product of 25 years of continuous refinement. Engineered for long life and low maintenance.



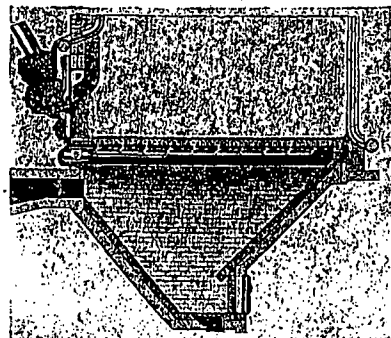
by the revolving impeller mechanism and delivered to the furnace, accomplishing a uniform spread over the entire grate area by means of the unique curvature of the impeller blades.

MANUAL ADJUSTMENTS—Quick manual adjustments are provided

to maintain uniform spread over wide fluctuations in sizes and surface moisture conditions of the coal supply.

Dumping Grates, either power or manually operated will fit any furnace width, due to the flexible design.

In laying out a furnace arrangement, first determine the proper width of grates and then determine the length by increments of 15 inches to obtain suitable projected area for correct combustion rates.



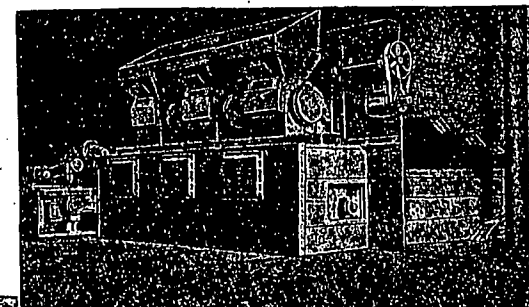
COAL FEEDING UNITS

FIRITE coal feeder units are of the mechanical spreader type using the underthrow principle, and a loose impeller mechanism consisting of a main impeller shaft with large dust-sealed water-cooled bearings; equipped with four concentric shafts on which are suspended—in series—loose impeller blades which are held in operating position by centrifugal force, and which provide ample clearance for tramp iron and other reasonably large refuse which may be in the fuel supply.

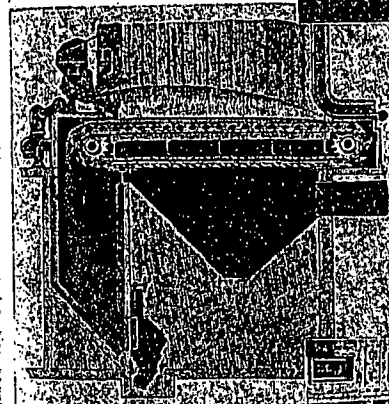
The impeller mechanism operates at low speed. All bearings are dust-sealed and of ample size. Interior wearing surfaces are equipped with patented replaceable liners.

The coal flows by gravity from the hopper to a reciprocating coal feeder plate, which delivers the coal to an adjustable tray having a machined curved face, from which the coal is picked up

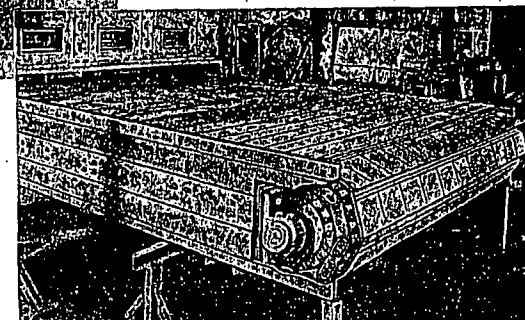
Hoffman Firite Spreader Type Stokers equipped with Hoffman Continuous Ash Discharge Grates, may be designed for either front or rear discharge to suit local plant conditions.



- Expansion and permanent growth of grate structures due to furnace temperatures are absorbed in expansion joints, provided in the design.
- Any expansion in grate structure will not be transmitted to the moving carriage, due to the method of mounting.
- Grate and fuel bed load is not carried on chain and sprockets.
- Hoffman C-A-D grates may be installed to discharge at either front or rear.



- Unique air entry through the lower strand.
- Uniform air pressures under all parts of upper strand.
- Positive air seals, both front and rear... that work.
- Effective air seals between grate bar sections.
- Minimum heat conductivity from fuel bed to carriage.



↑ Ready to Ship

HOFFMAN COMBUSTION

HOME OFFICE: DETROIT 26, MICHIGAN

BRANCH OFFICES OR AGENTS IN PRINCIPAL CITIES

ENGINEERING COMPANY

WORKS AT: FAIRMONT, WEST VIRGINIA
DETROIT, MICHIGAN