HEAT ENGINEERING

CONVEYER DRYERS FOR CHAMOTTE PARTS

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Having assimilated production of small-size intricately-shaped parts weighing from 20 to 1500 g, the Vnukovo Refractory Plant has stepped up its output to 900 tons a year, and has planned to increase the output of these parts to 6000 tons a year by the end of the seven-year plan.

The small-size parts are pressed by both the semi-dry and plastic methods. Roller dryers are used to dry plastically-pressed pipes while electrically-heated frame multitier dryers were used to dry the other small-size plastically pressed parts.

As production was stepped up, the need arose to replace the frame dryers by more efficient ones which did not take up so much space. It was decided to make a conveyer dryer along the lines of one suggested by the All-Union Institute

![Diagram of a conveyor dryer]
Fig. 1. Plan of conveyer dryer.

1 - frame; 2 - frames for parts; 3 - tightening unit; 4 - driving unit; 5 - sprockets; 6 - chain; 7 - loading window; 8 - unloading window; 9 - electric heater; 10 - opening for removal of air.
Fig. 2. Conveyor dryer for stopper and recuperator pipes:
1 - body of dryer; 2 - driving unit; 3 - tightening unit; 4 - doors; 5 - electric heater;
6 - frame; 7 - fan; 8 - turning sprockets; 9 - loading of parts; 10 - unloading of parts.