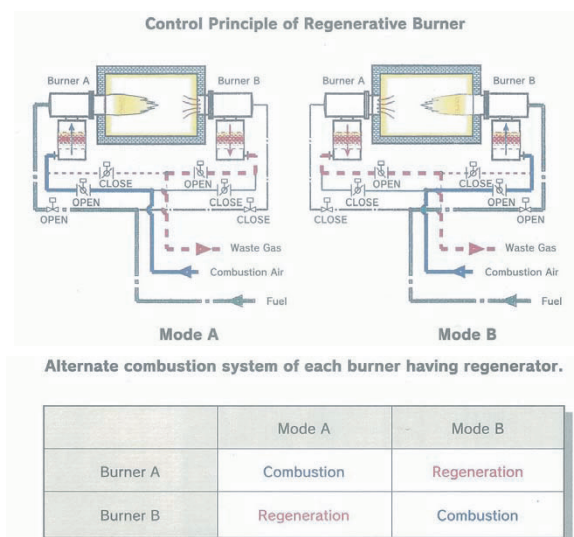


Reheating Furnace with Regenerative Combustion System for Steel Works

Features

Nippon Steel Engineering Co., Ltd. initiated research work in 1992 to apply a regenerative combustion system to a continuous reheating furnace and constructed Japan's first large-scale regenerative type walking beam furnace in 1995.

Basic Concept or Summary



Effects or Remarks

Lower fuel consumption thanks to high temperature preheating air

Fuel consumption with regenerative combustion system is 10% lower owing to the high temperature preheating air.

Installation in Practice or Schedule

Bar mill, Toyohashi Works, Topy Industries Ltd.
 Blooming mill North Nippon Works, Nippon Steel
 Bar mill Godo Steel, LTD
 Large section mill, Kansai Works, Nippon Steel
 Bar mill Kansai Steel Corporation
 Section mill YAMATO KOGYO CO., LTD.
 Hot strip mill Setouchi Works, Nippon Steel
 Hot Strip Mill Pohang Iron & Steel Co., Ltd., Korea
 Section Mill Kimitsu Works, Nippon Steel
 Section Mill East Nippon Works, Nippon Steel
 Hot Strip Mill East Nippon Works, Nippon Steel
 Section Mill PT. Gunung Garuda, Indonesia etc.

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