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  Muroran Works, Nippon Steel
Bar mill  Godo Steel, LTD
Large section mill, Sakai Works, Nippon Steel
Bar mill  Kansai Steel Corporation
Section mill  YAMATO KOGYO CO., LTD.
Hot strip mill  Hirohata Works, Nippon Steel
Hot Strip Mill  Pohang Iron & Steel Co., Ltd., Korea
Section Mill  Kimitsu Works, Nippon Steel
Hot Stripn Mill  Kimitsu Works, Nippon Steel
Hot Stripn Mill  Nagoya Works, Nippon Steel
Section Mill  PT. Gunung Garuda, Indonesia  etc.

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