

Renewal of Roughing Mill Motor-Driven Power Supply Unit

In July, Nippon Yakin Kogyo conducted renewal work on the roughing mill motor-driven power supply unit at the hot-rolling shop in Kawasaki Plant (Kawasaki-ku, Kawasaki city, Kanagawa prefecture).

1. Overview of the hot-rolling shop and the roughing mill

Our hot-rolling shop has three types of heating furnaces and two rolling machines. It mills stainless steel and various types of nickel alloy plates and coils. A slab transported to the hot-rolling shop (semi-product) is heated in the heating furnace first. Next, the roughing mill performs (1) wide plate milling (maximum plate width: 2500mm) or (2) sheet bar milling, which is the step prior to the rolling machine for finishing (steckel mill). The roughing mill whose motor-driven power supply unit we renewed this time is a flexible dual-purpose rolling machine that has both functions (1) and (2).

2. Overview of the renewed equipment

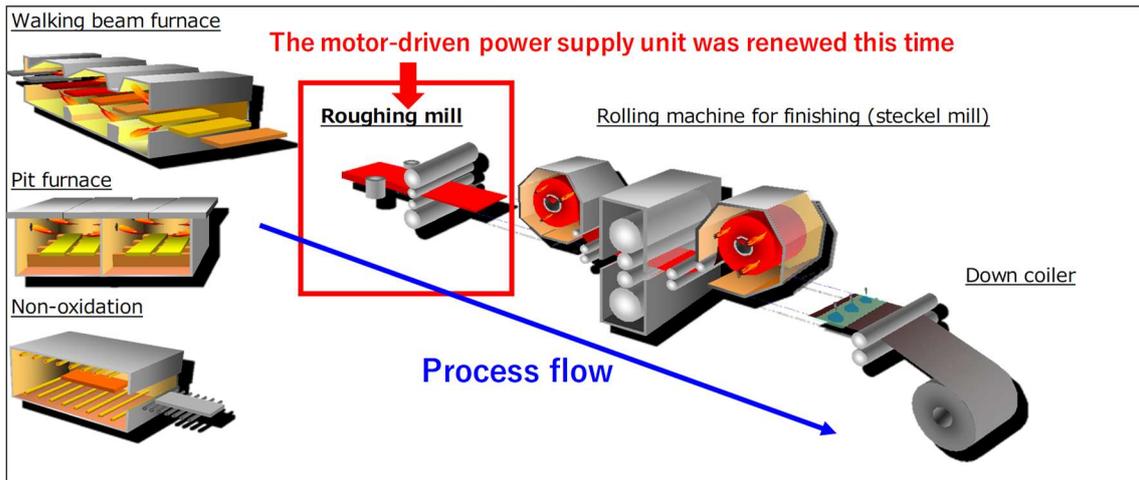
- Name: Roughing mill motor-driven power supply unit
- Power supply unit control method: IGBT (Insulated Gate Bipolar Transistor) inverter
- Investment: approx. 1.9 billion yen
- Energy-saving effect: Power consumption reduced by approx. 6% (when compared to the previous driving power supply unit)

3. Purpose of renewal

- (1) To enhance our competitiveness and reduce our environmental footprint with energy saving activities
- (2) To maintain and strengthen our production facility by addressing aged core equipment at Kawasaki Plant

Energy saving initiatives are indispensable for us, given that we have not only the roughing mill we renewed this time but also a great deal of large equipment, if we are to strengthen our competitiveness and reduce our environmental footprint. To help realize a carbon-free society, we will step up our investments in energy-saving equipment. In addition, to maintain stable production activities, we will address aged core equipment in a planned manner.

Milling line at the hot-rolling shop



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