

# New Skid Buttons with Ceramic Composite Metal for Slab Reheating Furnace\*

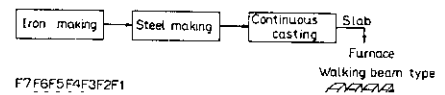
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## 1 Introduction

In stocks (slabs) heated in a slab reheating furnace, insufficiently heated spots called skid marks occur



ingly, a satisfactory skid buttons would combine the toughness of metal and the strength of ceramics.

tween conventional and ceramic composite metal

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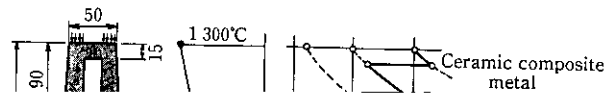
Conventional Composite

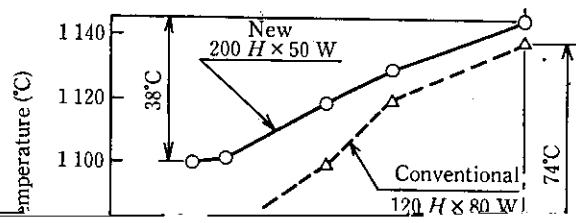
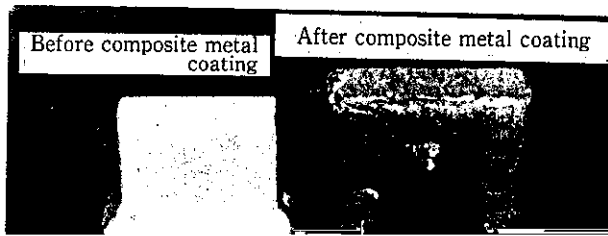
characteristics required of skid buttons.

0.2kg/mm<sup>2</sup>

Main features of the new ceramic

- (1) Compressive strength at high temperature is two to three times that of conventional metal.
- (2) Oxidation resistance at high temperatures is two to







Slab size: 215 mm  $t$   $\times$  1 200 mm  $W$   $\times$  11 800 mm  $L$

No.1 furnace (Pusher type)	No.3 furnace (Walking beam type)