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Automatization of Tapping and Related Operations in Converter Steelmaking

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要旨

転炉における精錬作業の自動化は最近の重要課題の一つであり、全自動無人吹錬等も実施されている。しかしながら吹止め以後の出鋼作業、炉補修作業などに関してはまだ

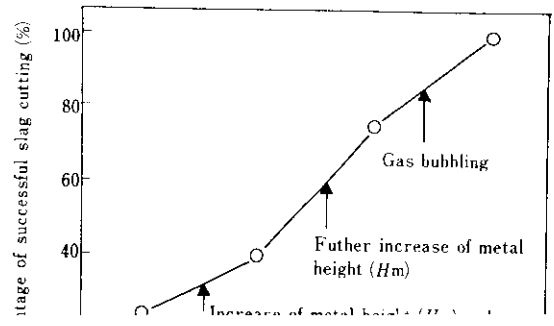
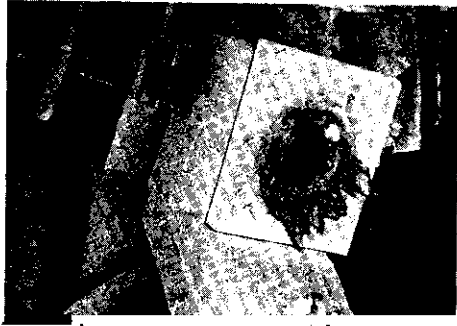
Synopsis:

With the phase of blowing reached its full automation in converter steelmaking, one of the important subjects in recent years is the automatization of the rest of the operations which require man-power, such as operations at blow-end and tapping, and repairing of refractories.

業の自動化に取り組み、サイフォン式転炉出鋼孔による自動スラグカット法、この出鋼孔の自動着脱装置、および自

matic slag-cutting, automatic exchanging device for syphon tapping hole, and automatic sampling and temperature measuring device. These developments

Size _____



(1) Conventional QDT operation

Dynamic control

Addition of

With oxygen probe
 $\bar{x} = 55 \times 10^{-3}\%$