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IRON & STEEL
WORKS:
YAWATA, WANISHI, KAMAISHI,
FUJI & KENJIHO.
COLLIERY: FUTASE.


NIPPON SEITETSU KABUSHIKIKAISHA

YUSEN BUILDING,
MARUNOUCHI, TOKYO,
JAPAN.

CABLE ADDRESS:
"SEITETSU TOKYO"

TELEPHONES:
MARUNOUCHI (23) 1341-1349

The previously offered furnace with a nominal capacity of 100 t_a, can also be worked for a capacity of 120 t_a, as easily can be seen from the technical data given in the offer, viz: for 100-150 t_a with ~~hot~~^{cold} cold charges, and for 100-130 t_a with liquid charges. For these charges the furnace has been built and used:

8 pcs. for Friedr. Krupp A.G., Rheinhausen and Bergeborbeck

4 pcs. for August Thyssen-Huette in Hamborn

1 pc. for Eisenwerk Trinec

1 pc. for Hahn'sche Werke, Oderberg

1 pc. for A.G. Lauchhammer, Riesa/Sa.

1 pc. for the ehem. Aachener Huettenverein in Aachen,
Rote Erde.

In these works the furnace has attained an hourly capacity of 12-15 t_a and 10-12 t_a respectively, heated with good mixed or producer gas. In the Steelworks Hoentrop, a factory of the Vereinigte Stahlwerke A.G., Bochumer Verein, worked with cold charges and being heated with mixed gas for the production of round ingots for seamless tubes, the furnace has given a monthly output of 9000-10000 tons, at a heat consumption of about 1.100000 kcal/ton and a consumption of bricks of about 10 kg, and a consumption of pig iron of 15 - 30% at an output of about 93%.

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In this case the furnace produces normally charges of 120-130 to, which are tapped off in two ladles, of about 60-65 tons capacity, one after the other, because it is impossible, and not advisable from the quality point of view, to cast steel of good quality from bigger ladle in relatively small round ingots of 400-600 kg medium weight.

At Hoentrop two furnaces of the same size as offered previously are working. Two other furnaces, built afterwards, with a nominal capacity of 120 to, are of the same construction, differing only in the greater useful area of hearth surface now being 49 sqm instead of 44 sqm of the 100 to furnaces. The rolling runner support is of a heavier construction, likewise the tilting part, besides that the chambers are higher than previously. These furnaces of 120 to nominal capacity, have attained outputs of 180-220 tons tapped off in 3 ladles of 60-65 to each, i.e. monthly outputs up to 13000 to. these outputs have not been reached according to our information by any other furnace of the world, not ever by the fixed 300 to furnaces of the Weyrtok Steel Company, in spite of these latter having nearly the double heating area i.e. 96 sqm: besides that the prime costs of these latter furnace may be even higher than those of the offered tiltable furnace according to German and Japanese market conditions: the quality of steel produced in tilters is surely higher than that of steel produced in fixed furnaces.-

According to experiences gained at Hoentrop and others German Steel works it is not advisable to work quality-steel with



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more than two ladles tapped off one immediately after the other, while bigger charges of mild steel may be tapped off without difficulty in three ladles.

The bigger furnace of a hearth surface of 49 sqm can be worked with cold charges for an output of 120, or 180-220 tons respectively which is tapped off in 1 or 2 ladles of 120 tons. This working may give the best results with lowest costs for the production of mild steel as well as for high quality steel.