

KAWASAKI STEEL TECHNICAL REPORT

No.32 ( March 1995 )

Ironmaking Technology, Secondary Refining,  
and Center-Segregation Control with Forging in CC

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# Blast Furnace Burden Distribution Control with 3-Parallel Bunker Bell-less Top Using Large Amount of Small Sinter\*

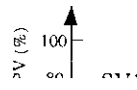


## *Synopsis:*

*A three-parallel bunker bell-less top was installed at Mizushima Works No. 3 blast furnace for the third campaign in order to realize highly sophisticated burden distribution control techniques. These control techniques make it possible to increase the ratio of small sinter in multi-batch charging using two-size fractional charging of coarse*



[Chassis status code]



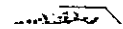
SV:Setting value  
PV:Process value

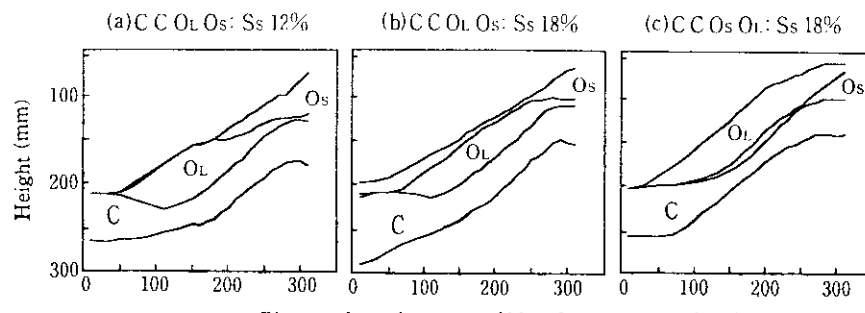
SV2

the bunkers in the final period of charging and the  
remaining number of rotations. Changes over time in

Sintering plant

Sinter





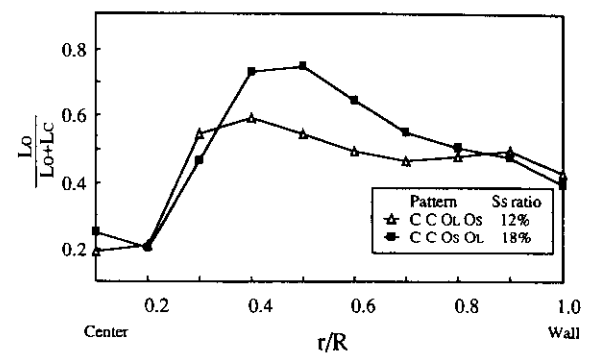
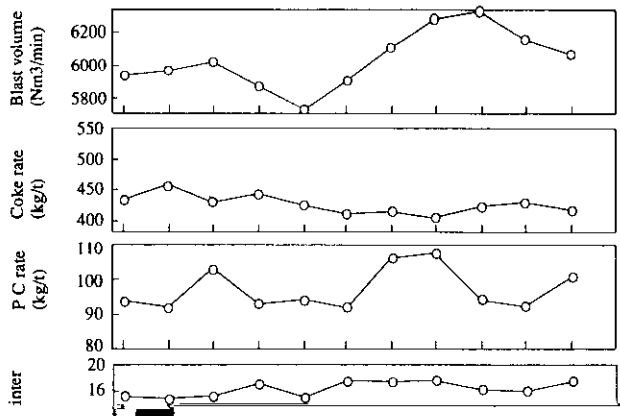
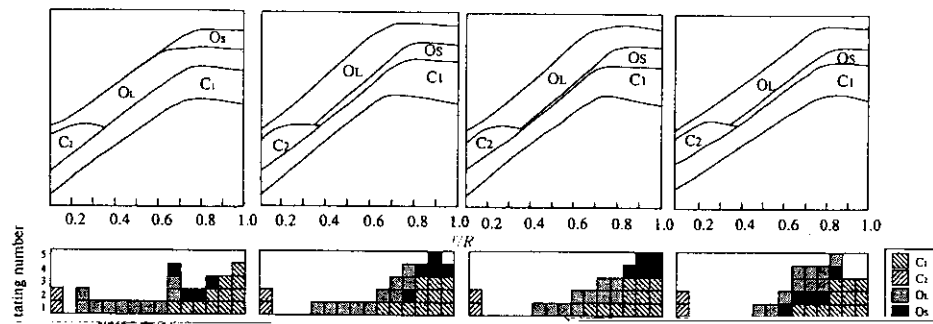
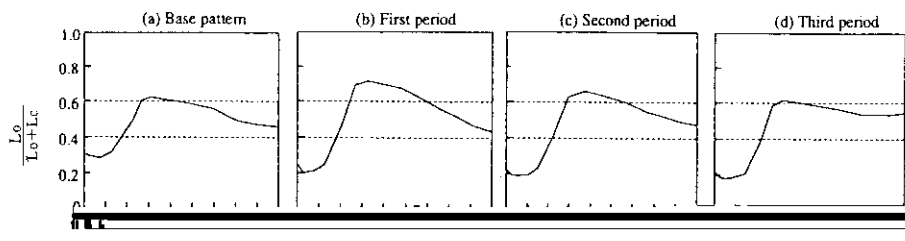


Fig. 12 Radial  $L_0/(L_0 + L_c)$  distribution calculated



Bell-less notch

Fig 14  $L_o / (L_o + L_c)$  and charging pattern of No 3 blast furnace.