KAWASAKI STEEL GIHO Vol.10 (1978) No.2.3

Total Remote Control of Soaking Pit Crane at No.3 Slabbing Mill of Chiba Works

(Chiyuki Utahashi) (Takayoshi Yanagisawa) (Hiromasa Yamamoto) (Teruo Nukui)

:

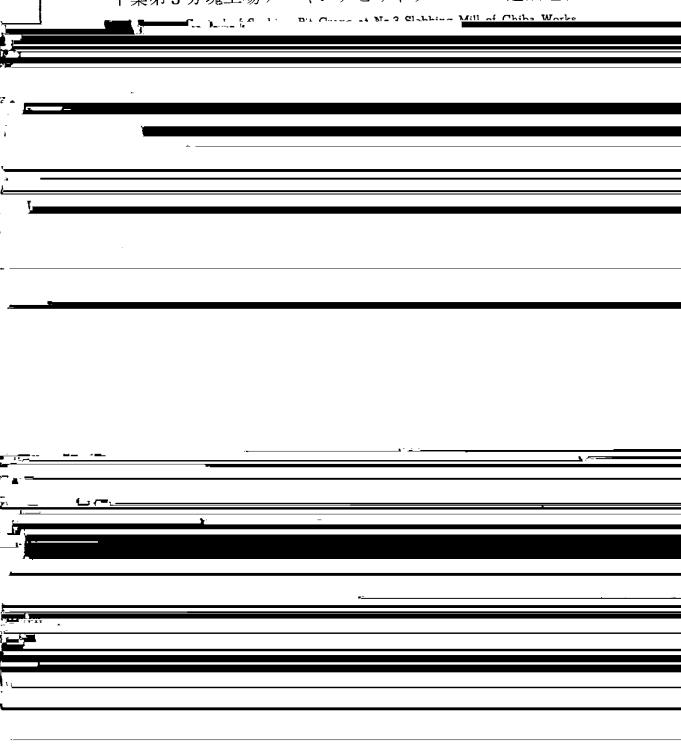
Synopsis:

An unmanned crane operating system has come to markedly improve the working environment of soaking pit cranes at slabbing mill. Controlled form the ground floor instead of form within the crane, the system makes utmost use of inductive radio and wireless ITV, solving the problems of crane operators with intense heat form beneath and strong vibration. The location of operation room, the proper position of ITV cameras, size and number of monitors, etc., to say nothing of the way of avoiding crane collision, were studied to minimize a sense of physical disorder caused by using monitored image instead of direct viewing from within the crane. Operating efficiency of the new system is almost as expected, though some minor camera troubles occurred during the test operation.

(c)JFE Steel Corporation, 2003

UDC 621.87-519:621.783.224.2 621.771.22:658.2

千葉第3分塊工場ソーキングピットクレーンの遠隔運転



	第3分塊工場は現在年産 300万 t (将来増産子	たは鋼塊を炉内に配列するときなど精密な操作が
Ħ.		
<u> </u>	· ·	
7, <u></u>		
-	· · · · · · · · · · · · · · · · · · ·	
. — — —— — — — — — — — — — — — — — — — —	,	
Y		
· <u> </u>	18ホ <u>ール(将来99</u> ホールキを設置前部) インゴ	軍転子フェミ 労使エー化 神石 李明)ギナ いの頃
\(\(\lambda \)		
£		

能な距離は運転室から60mまでで、これ以上遠く

Table 1 Specifications of soaking equipment

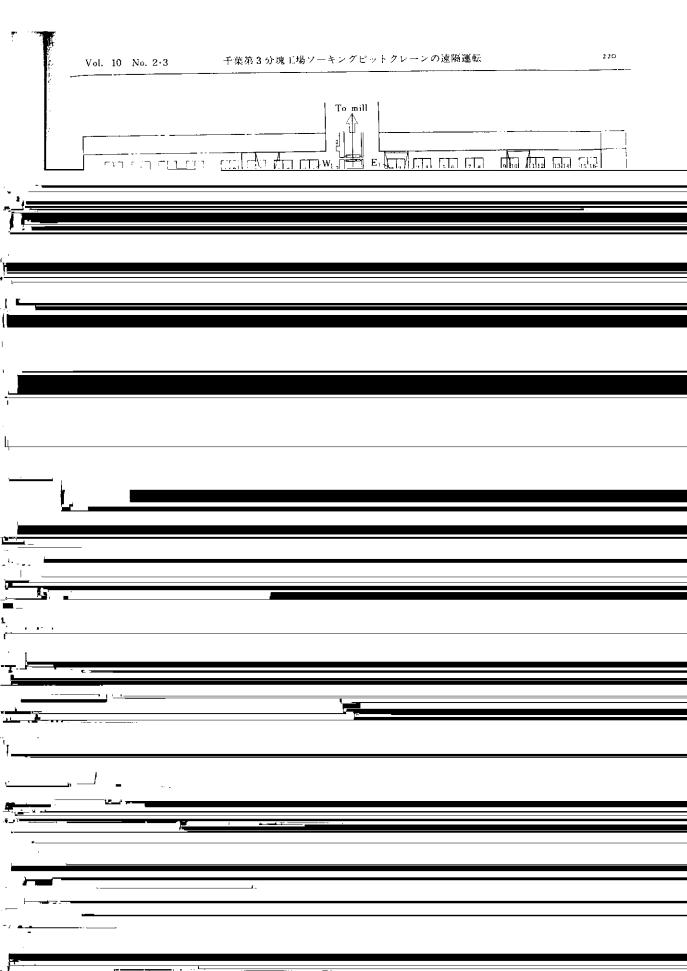
Ingot Wajuht

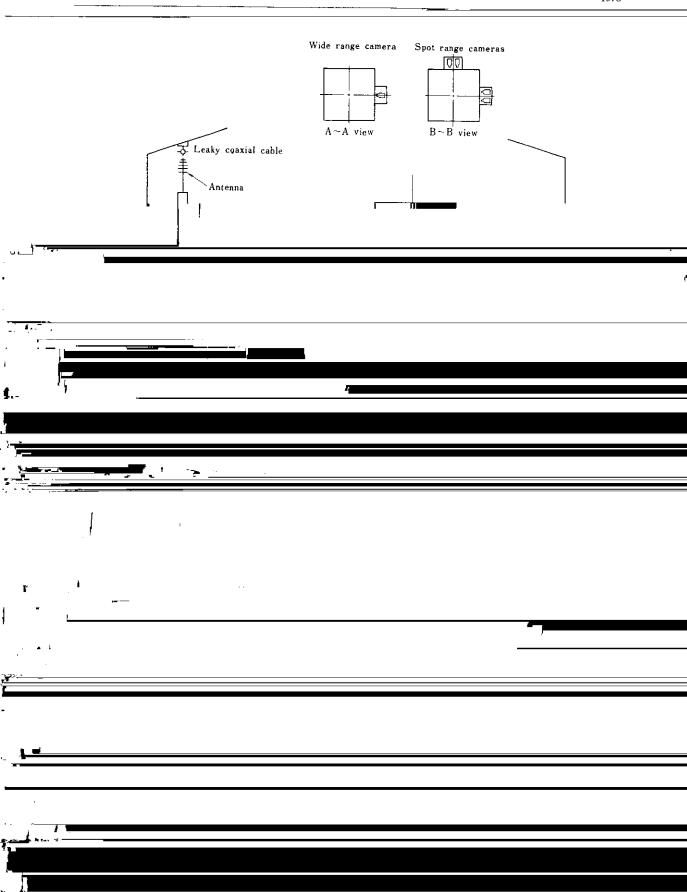
(将来3台)と、それらの付帯設備である。 Table 1

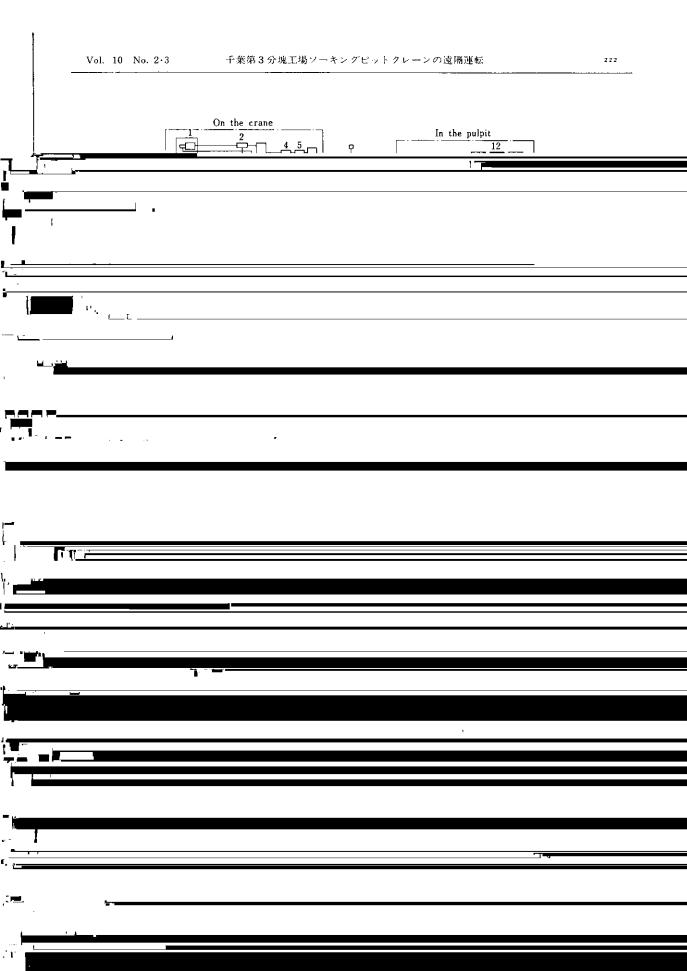
に主要設備の仕様を示し、均熱ヤード全景をPhoto.1

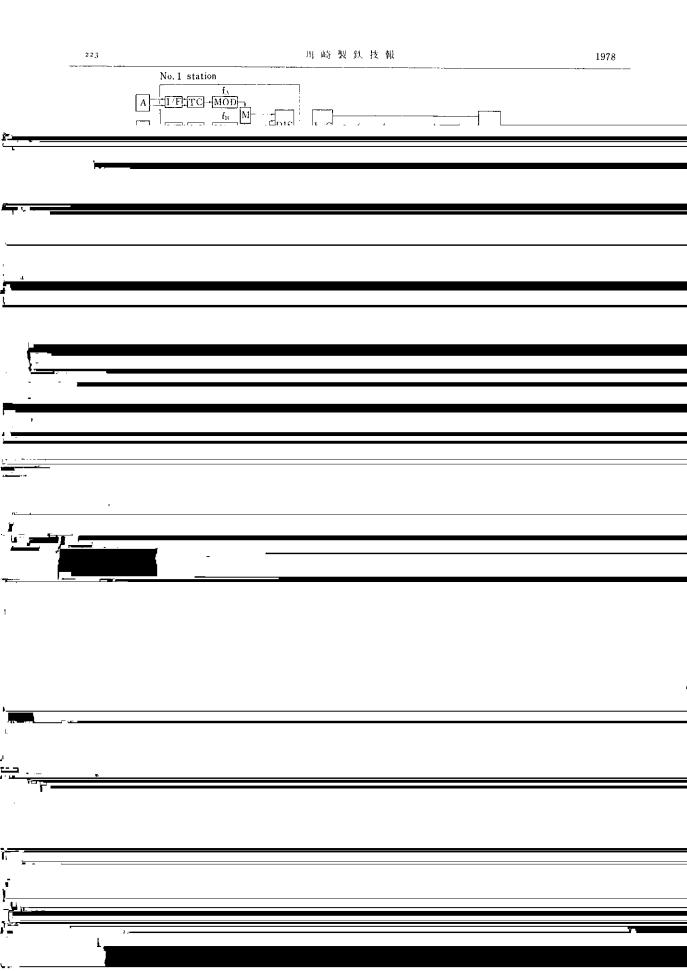
ソーキングピットクレーンは均熱炉への鋼塊の

に示す。









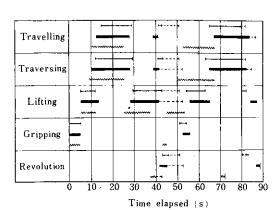


Photo. 4 Scenery of operation

Remote control (plan)
Remote control (actual)
Direct operation (actual)

Б_{ДХ}.

	=			
	Fig. 6 Comparison of char	rging avale time of one ingot.	f., baroles s	
٦	<u> </u>			
				
7				
•				
1				
_ #				
 -		1-		
1				
	7-			

