KAWASAKI STEEL TECHNICAL REPORT
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An Outline of New Block Mill and Its Operating Results

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tinuous, no-twist-type layout. Consequently, the new "bar and wire-rod" mill has become a rolling mill unpre-

2.3 Equipment Layout

3 Features of Major Facilities

3.1 Existing Bar Mill Line Facilities

sion control.

(3) Manufacture of 2-t coils using a large cross-section billet is possible.

3.2 Block Mill and Tracking Facilities

(6) To support high-speed controlled rolling, sensors are used to detect roll-neck metal temperature and load, thereby achieving adequate monitoring.

Since the block mill is also located 94 m from the

3.3 Winding and Adjust-Cooling Facilities

3.3.1 Winding facilities

existing final rolling equipment, careful consideration is given to the following points regarding tracking facilities:

failure of realizing high-speed rolling is determined by winding facilities, and the maximum rolling speed of all wire rod mills in operation is governed without exception

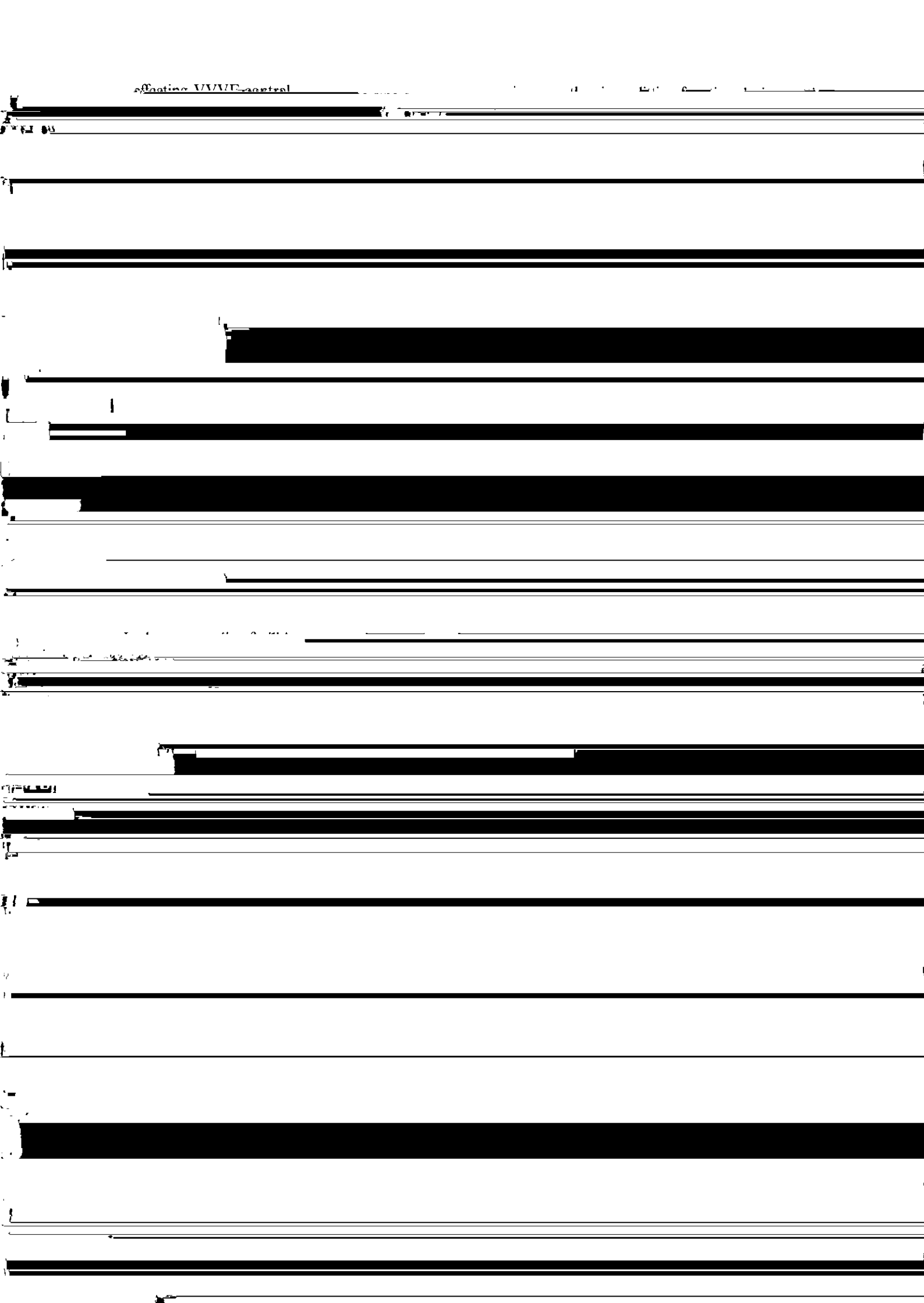
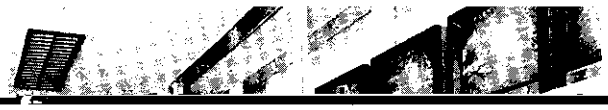


Table 5 Finishing line facilities on a non-sliding "power and free" conveyor

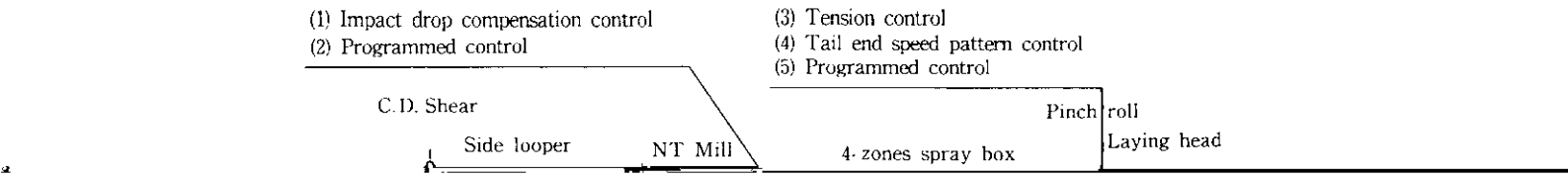
(2) The new conveyor line incorporates finishing

are described below.



3.6.4 Main equipment drive system

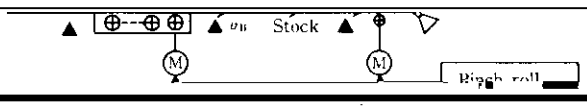
The entire facility was designed with main aims of



(6) Tail end speed pattern control

Rod tension Pinch roll Laying head

control modes have achieved originally intended func-



demands will become stricter in the future, and the diverse functions and high performance of this control

4.1 Problems during Setting-up Period

In the initial period of operation of the new block mill, problems due to high-speed rolling, an unknown at the time, were experienced together with the usual break-in period problems of new facilities. In the following, prob-