Abridged version

KAWASAKI STEEL TECHNICAL REPORT
No.13 (September 1985)

An Outline of the Stainless Steel Continuous Annealing and Pickling Line at Chiba Works

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Synopsis :
A new annealing pickling line has been put on stream at Chiba Works in October 1982. Meeting with the demands of the age, this large-scale line efficiently produces coils of large dimensions, i.e., maximum 8 mm thick and 1 600 mm wide, available from various kinds of stainless steel and high carbon special steel. In this construction careful consideration was given to the thoroughgoing protection of environment. Especially a new method to regenerate HNO3 and HF efficiently was successfully developed by introducing Fe-removing process. This development was commissioned to Kawasaki Steel by Research Development Corporation of Japan (J.R.D.C). This AP line and its auxiliary acid recovery plant, to which the above-mentioned new systems have been introduced, are now in smooth operation.

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The body can be viewed from the next page.

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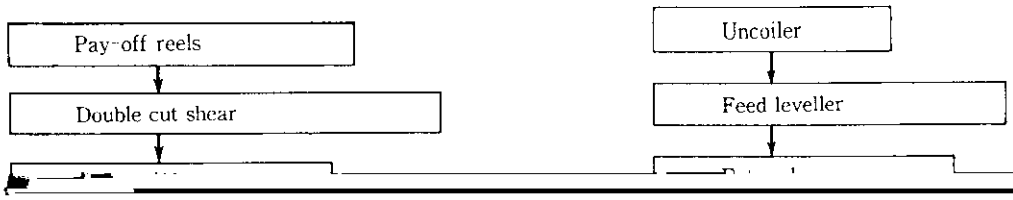
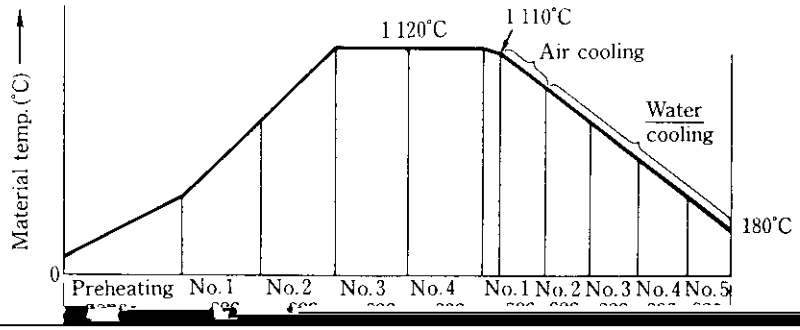
Synopsis:

A new annealing and pickling line has been put on

[redacted]

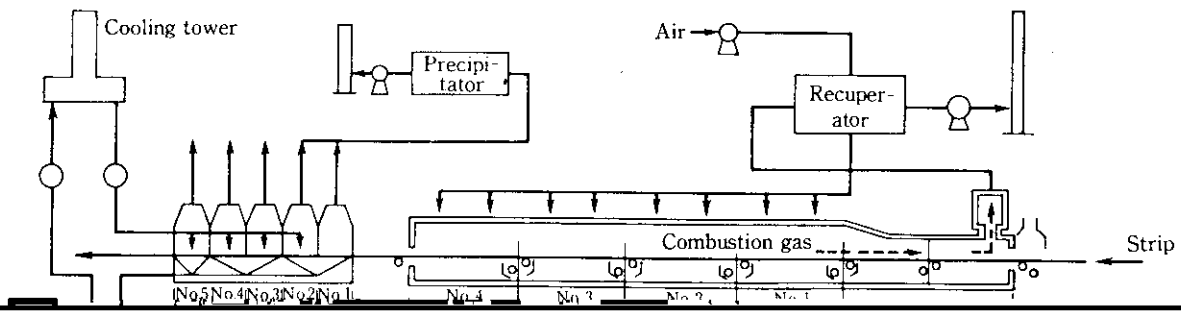
2 612 mm (#2)
Delivery side: 2 134 mm (2193 mm

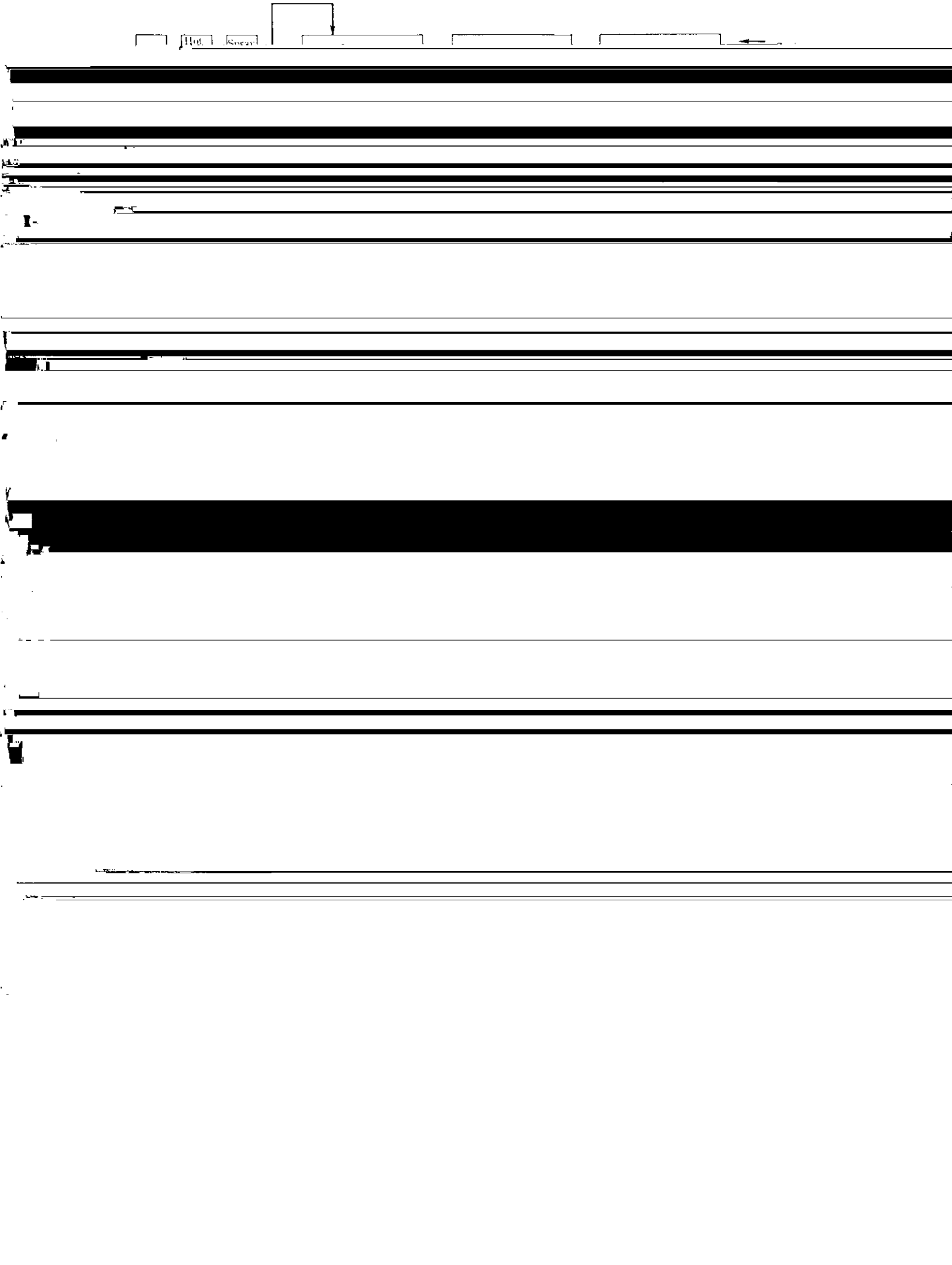

Pay-off reels
Double cut shear
Uncoiler
Feed leveller



Furnace length

Fig. 5 Heat pattern for SUS 304





minimized

and HF solution is treated by extraction of HNO_3 and hydroxides are recovered as ferrite by the above men

missioned to Kawasaki Steel by the Research Development Corporation of Japan, and the new way is opened for the future in treating steel pickling waste liquids.

Kawasaki Steel will use this new AP line to manufacture stainless steel to meet the new needs of stainless