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Improvements in Cold Rolling of Extra-thin Gage Strip

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## Synopsis:

At Chiba Works, many kinds of technical improvement have progressed which permitted economical and stable production of extra-thin cold rolled steel sheet for tinplate and galvanized sheets with high quality: (1) In tandem cold mills, "Keyless bearing", hydraulic push-down BISRA-AGC, roll eccentricity control and 6-high mill were adopted for improving gage accuracy and flatness. Moreover the highly efficient rolling lubricant providing method, "Hybrid system", was established. (2) Through hot rolling at low finishing temperature, the material was made softer so that easy cold rolling and good flatness would be attained. (3) In skinpass rolling, both brightness and flatness of strip were improved by selection of suitable roughness of the work roll surface.

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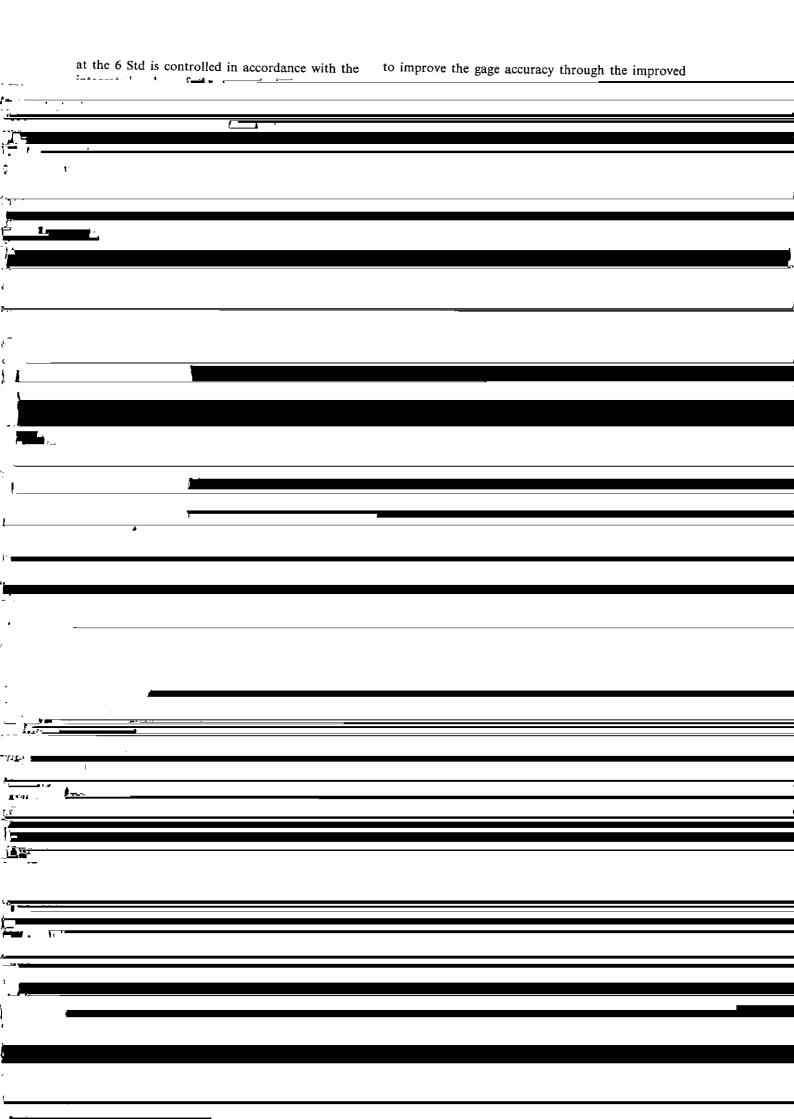
## Improvements in Cold Rolling of Extra-thin Gage Strip\*

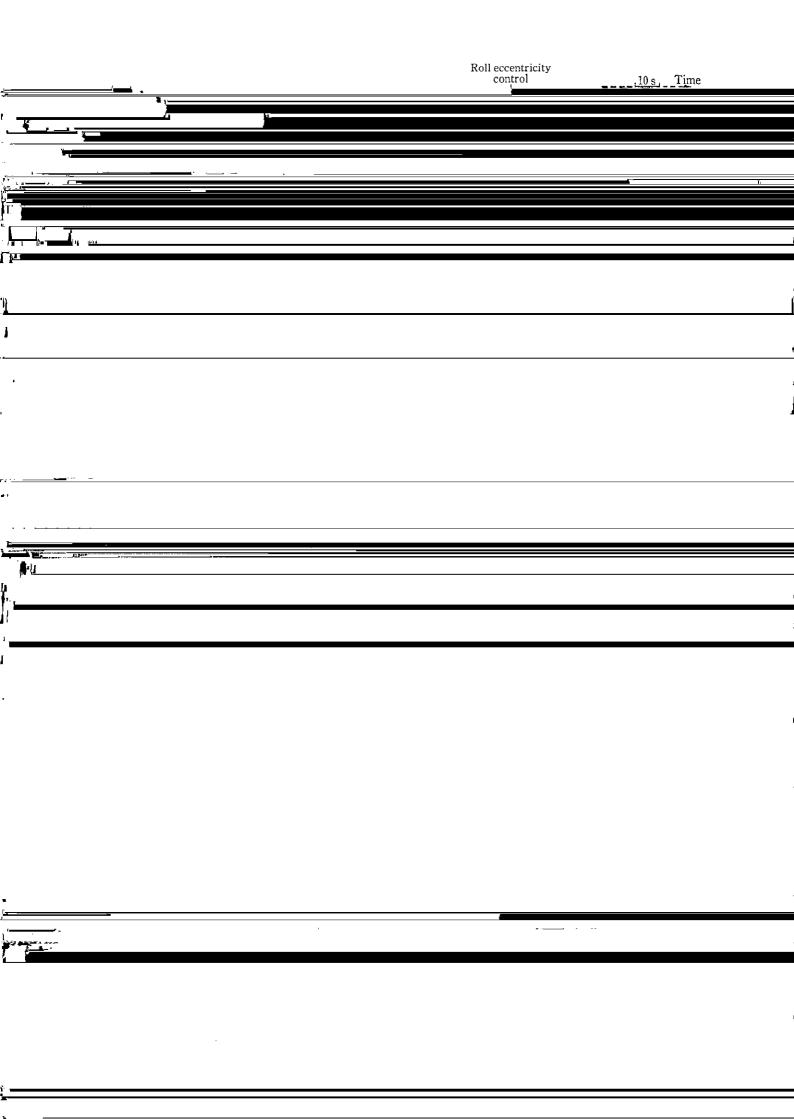
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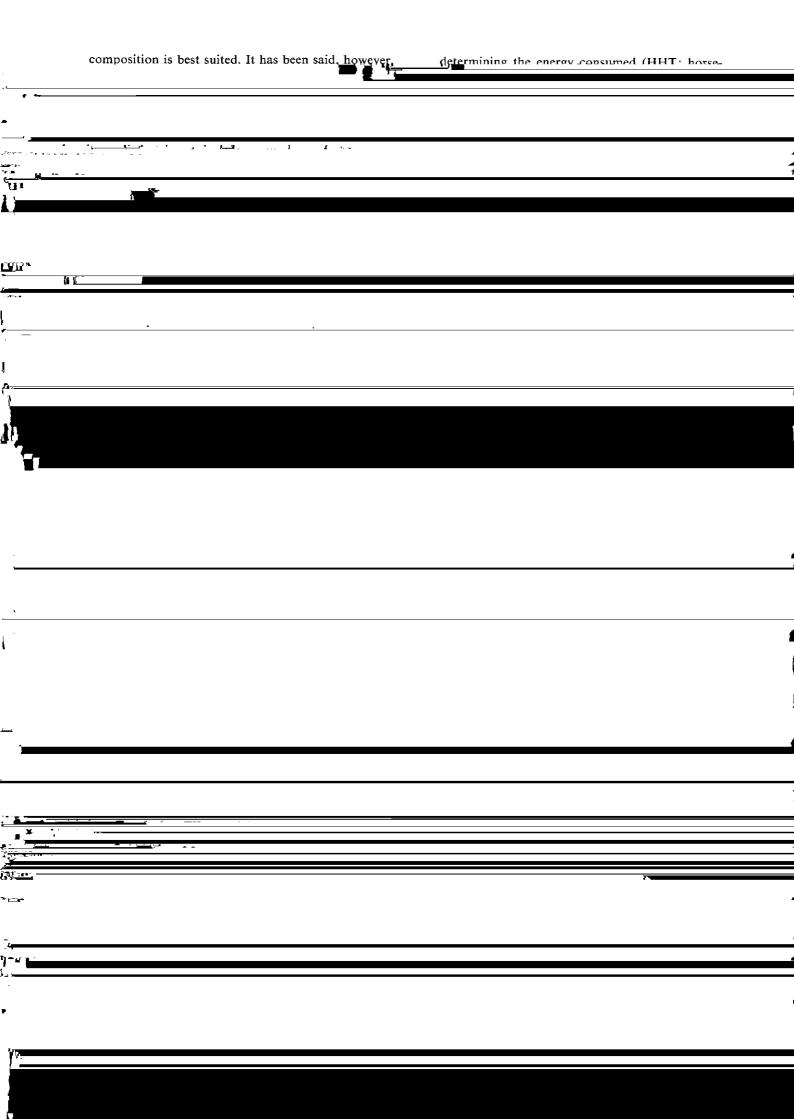
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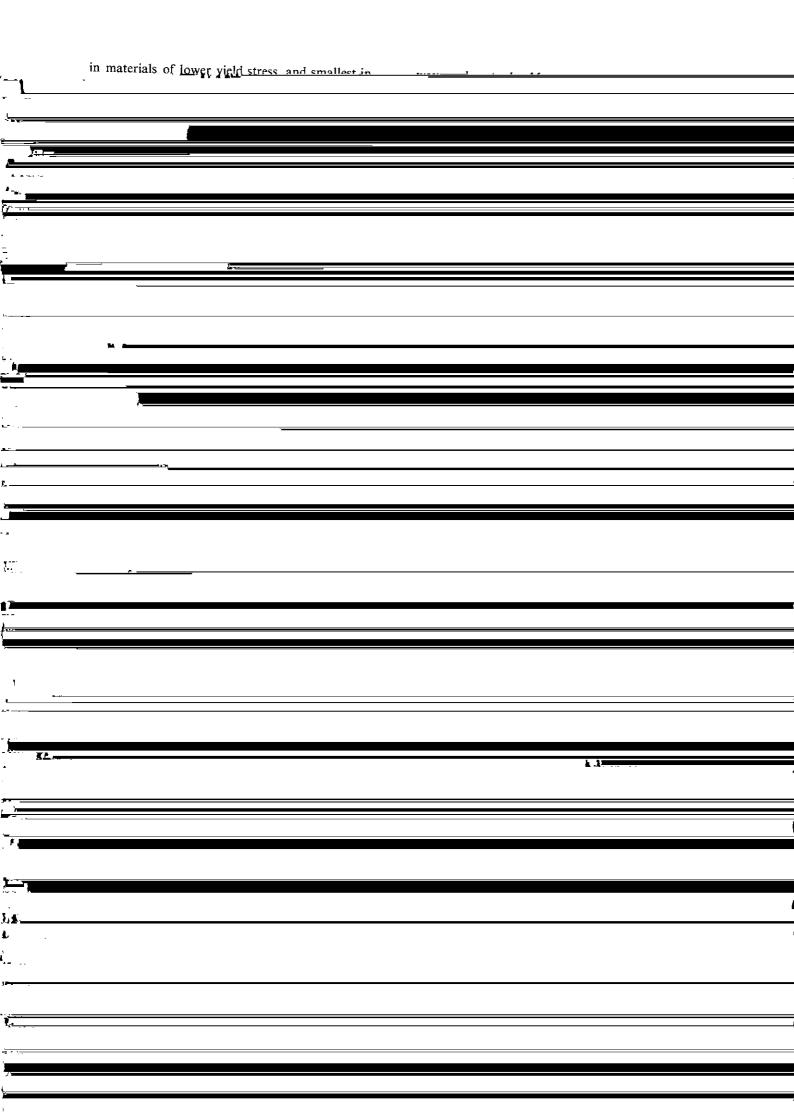
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At Chiba Works, many kinds of technical improvement have progressed which tinplate and galvanized sheets with high quality: (1) In tandem cold mills, "Keyless bearing", hydraulic push-down BISRA-AGC, roll









and to replace them at high frequency, which depressed the efficiency and was uneconomic hard with fine grain microstructure as it was hot rellad in the a region, while the adde area is soft with coarser grain microstructure as the area was In November 1980, the 5 Std in the 5T was changed

