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Analysis and experiment on rolling of strips with various thicknesses in lateral direction

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## Highlights

- A new method for rolling strips with different thicknesses in the lateral direction is proposed.
- Some key parameters of roll design are determined.
- Metal in the deformation zone is not under tri-axial compressive stress which is common in traditional flat rolling without tension.
- RPS samples with a thickness ratio of 1:1.3 were obtained through five passes.

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