

Rolling - Introductory concepts

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1. Quiz – Key:

1. What is neutral point or section?

It is the section along the deformation zone in rolling where the rolls and work have the same velocity.

2. What is a cluster mill?

A number of backup rolls are used in rolling thin sheets using small rolls. This is known as cluster mill.

3. What are back tension and front tension? How are they applied in rolling?

Back and front tensions are the additional tensile force applied on the strip before and after rolling in order to reduce the roll force. They are applied with the help of feeder and coiler.

4. Mention the advantage and limitation of using small diameter rolls.

Small diameter rolls require lower rolling loads. However, they can easily bend under the rolling force. They require support rolls.