



ArcelorMittal

Pipe manufacturing and testing equipment

Our Global R&D has invested in new equipment to simulate the pipe forming process and eliminate specimen flattening.

This includes a roll bending machine that allows full thickness coil/plate samples to be formed into actual diameter cylinders simulating the deformations of pipe manufacture.

A complimentary ring expansion test unit capable of measuring the yield strength of 16-48 inch diameter pipe in the native pipe cylindrical form provides a more accurate measure of strength in pipe form.



4 roll bend machine

Benefits:

- Simulate deformation path for pipe manufacturing.
- Test expected pipe material properties (yield, DWTT) during alloy development.
- Capable of forming heavy gauge plate.



continued

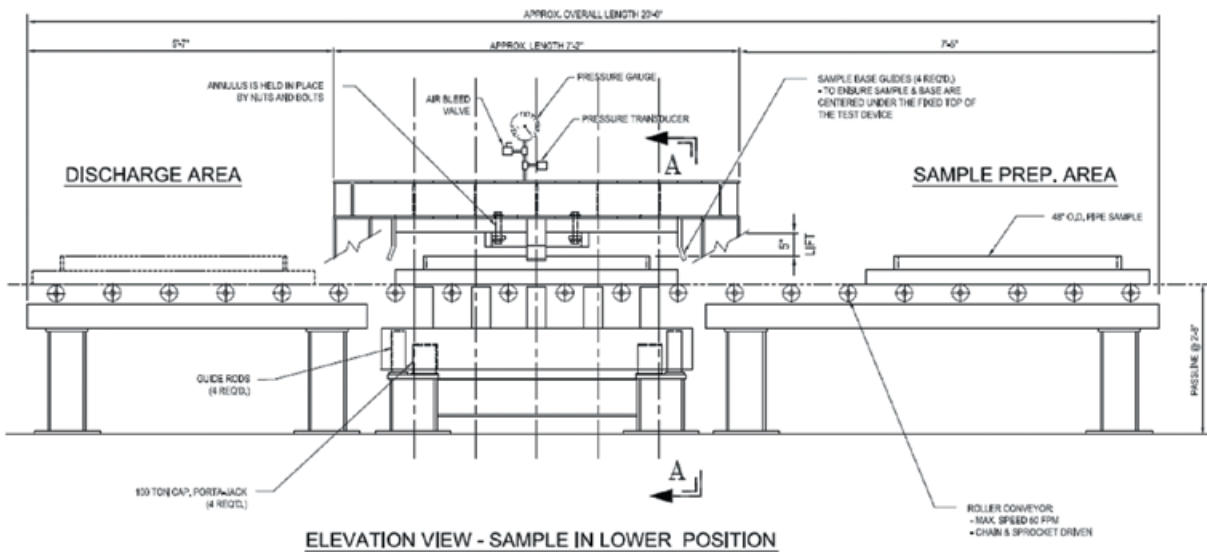
Ring expansion tester

Benefits:

- Best measure of pipe performance, compared to flattened strap and round bar tensile samples.
- Better understanding of pipe yield strength for ArcelorMittal and our pipe customers.



Internal seal inside pipe ring specimen.



ELEVATION VIEW - SAMPLE IN LOWER POSITION



Ring expansion tester installation



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