TATA STEEL



3 Roll Bend Double Submerged Arc Welded

(DSAW Pipe)

Our highly flexible, 3 roll bending mill has a worldwide supply record delivering pipes ranging in outside diameter size from 18 inches to 84 inches. The process is used extensively for critical service applications in the petrochemical industry and for water pipelines.



Our 3 roll bending mill incorporates multi-process routes with options for hot and cold plate bending and heat treatment including full body normalising. We use low carbon equivalent, low residuals plate feedstock to optimise 'weldability'.

Close control during plate manufacture ensures our pipe is supplied to tight wall thickness tolerances. Extensive testing is undertaken using hydraulic, ultrasonic and digital x-ray machines. Specialised coatings can also be applied to finished pipes and fabrications.

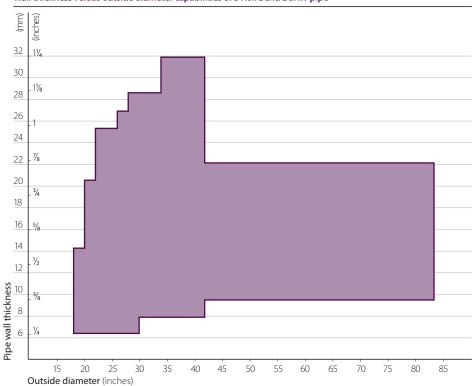
Our 3 roll bending process delivers excellent pipe properties and performance:

- \bullet Typical wall thickness tolerances of +/- 5%
- Optimum weld joint design factor of 1 – equivalent to seamless
- Enhanced straightness when supplied to ASTM specifications – a standard
 1 in 1000 tolerance is supplied ex-mill
- Excellent pipe concentricity
- Enhanced fracture toughness in pipe supplied in normalised condition

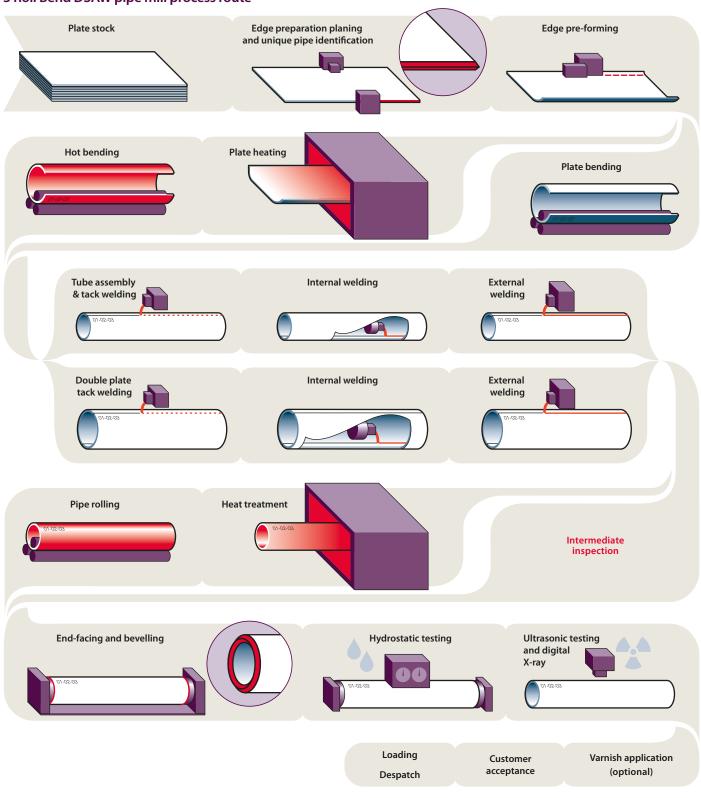
Our 3 roll bending process also offers customers a wide choice and programme benefits:

- Extensive choice of outside diameters, wall thicknesses and lengths (welded up to 27 metres)
- Wide choice of grades including seamless equivalents and low alloys
- Small quantity (single lengths) and multi-item capability to support individual project packages
- Excellent dimensional control for ease of fabrication, optimum design and minimal waste
- Surface preparation and coating options for optimum performance

Wall thickness versus outside diameter capabilities of 3 Roll Bend DSAW pipe



3 Roll Bend DSAW pipe mill process route



Tata Steel

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