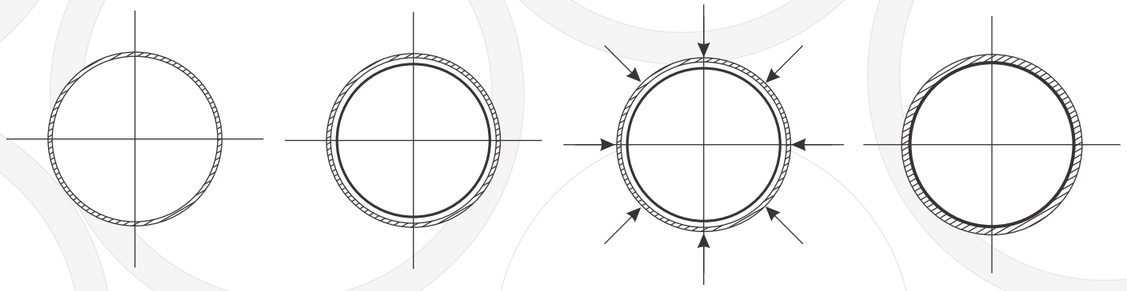
MANUFACTURING PROCESS

Traditionally lined pipe has been manufactured a couple of ways. One method places a CRA liner on a base metal plate and explosively welds the two, and then the plate is traditionally rolled and welded, resulting in an ERW pipe with a bimetal construction. Or the CRA liner was fabricated, slid into the pipe and then hydrostatically stretched to fit the outed base metal.

We have developed and patented a different and superior solution. We insert a CRA liner and compress the two materials together. Our process results in the higher grip strengths and unparalleled liner uniformity.



Backing Material | Backing Material & CRA Liner | Bonded Technology | Lined Pipe

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Specialization I Quality I Honesty

Cangzhou Longtaidi Pipe Technology Co., Ltd

Up to
75%
Cost Saving

- **Mechanical Lined Pipe**
- Induction Pipe Bends
- Clad Pipes and Clad Pipe Fittings
- Pipe
- Pipe Fittings (Large Diameter)

INTRODUCTION

Today's competitive environment compels businesses to seek every possible advantage. Smart companies are looking at all possibilities, including material advantages. New material technologies and manufacturing processes are solving problems that previously have limited product life cycles and created exposure to costly field failures. Sectors including Oil & Gas, Chemical, Power and Construction for example, are encountering applications where corrosion, high temperatures and pressures, and wear are limiting the lifespan or capabilities of their products and projects.

Previously, solid alloy or weld clad products have been the best options available, but those are both costly and can have extremely long lead times. Longtaidi has an attractive option for consideration, we are proud to offer mechanically lined pipe manufactured to API 5LD that offers corrosion resistance at a fraction of the price of previous materials.

MATERIAL & SIZE

Our pipes and tubes consist of a carbon steel backing material manufactured to API, ASTM and ASME specifications currently recognized and accepted by industry throughout the world, married to corrosion resistant alloys (CRA's) selected by the customer for the individual project need. The number of CRA options available is large, including 300 series stainless steels and many other UNS alloys with the ability to deter corrosion and cracking. Our patented manufacturing process offers both technical and economic advantage.

Size:

Backing pipe OD : 21.3-711.0 mm (NPS1/2"-28")
Backing pipe WT : 3.0-60.0 mm
CRA Liner WT : 0.5-6.0 mm
Length range : ⩽12500 mm
Fully customizable to meet your specific environmental needs.

MATERIAL

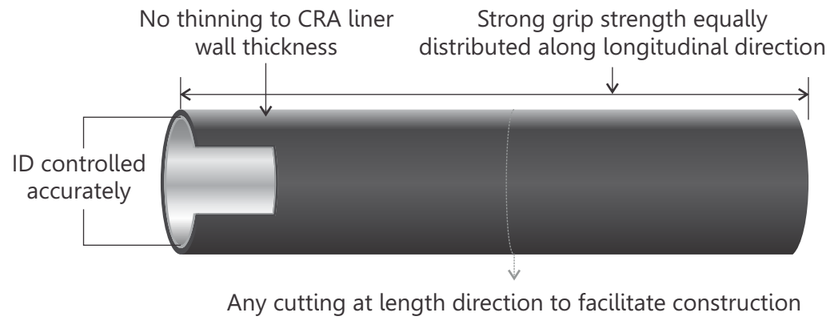
Backing Material : API 5L X42, X52, X60, X65, X70, X80, Gr.B, L245, A106 Gr. A, Gr.B, Gr.C, A333 Gr.3, Gr.6 etc
CRA Liner Material : LC 1812, 2205, UNS S317030, S31803, S30400, S30403, S31600, S31603, S32100, N08904, N08825, N06600, N04400

Nonferrous Metal Such as Titanium, Copper, Aluminum etc.

TECHNICAL FEATURES

Our patented manufacturing process produces superior finished products. Our process eliminates distortion of the CRA liner. There is significantly less variation of the inner layer when compared to traditionally manufactured lined pipes that are hydrostatically formed. Our process yields significant benefits to the customer: principally allowing uniform circumferential welds, limiting dilution with superior weld strength. Additionally, our manufacturing process produces exceptional grip strength between base metal and CRA liner.

Grip strength, dimension tolerance, mechanical strength is better than that in API 5LD.



LINED PIPE WELDING

We also offer several end finishes, manufactured to facilitate on-site welding, among which the overlay welding is the most prevailing solution. Incorrect or non-uniform end finishes take additional time to install in the field and can mitigate the benefit of the CRA liner. We work with each customer to ensure they are provided with the best end finish solution to assist in rapid and cost effective installation. In addition, we manufacture each piece to the customer's specified length, reducing required installation resources by providing a factory finished end exactly where it is needed.

Solution : Overlay welding

Boring on the ID of pipe ends, then overlay weld on the backing steel ID, last lathe on the overlay weld layer and bevel the pipe ends.