

**Decometa presents a complete weld cladding capability utilising the latest automated Hot wire TIG welding Stations.**

**Bi-Metal –Weld cladding deposits buffer layers (buttering) allowing different base materials to be welded together**

**We are able to maintain stringent deposition and dilution rates based on customers' requirement. Our list of clients includes international manufacturers in the Oil, Gas and Petrochemical and Marine Engineering industries.**

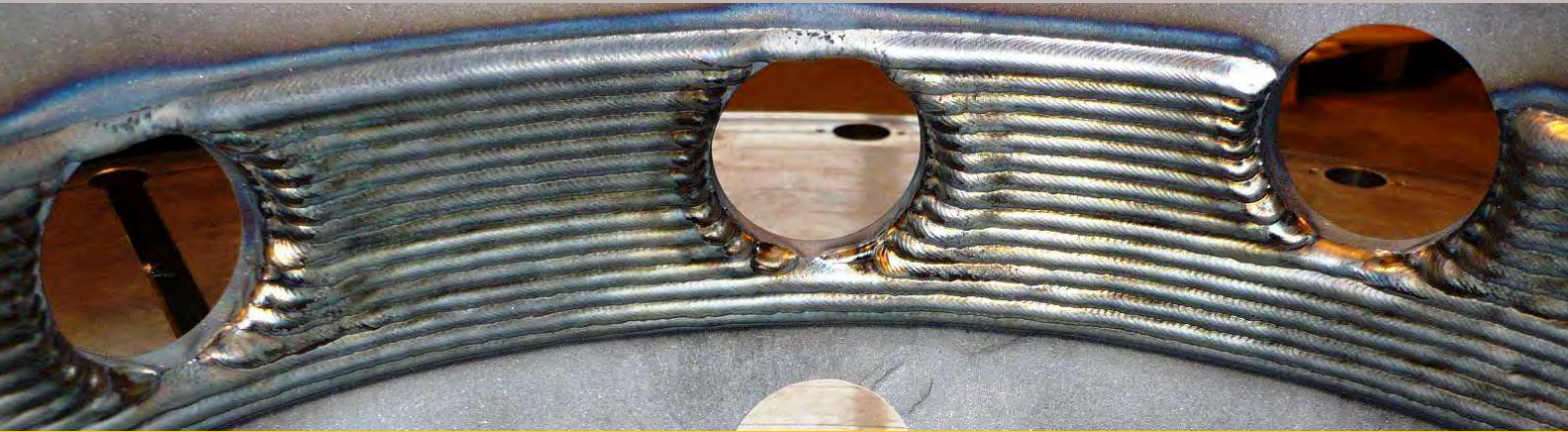
**Bi-Metal Pipe combining the features of metallurgical and mechanical clad pipes**

**The range and choice of these liner pipes is large but typically are: 300 series austenitic stainless steels (e.g. 304L, 316L) 6Mo super austenitic (e.g. 531254) Nickel alloy (alloy 400, 625, 825, 904L).**

**The manufacturing process works equally for pipe pieces within a size range from 1 1/2" through to 42" diameter and can be manufactured with various wall thickness. Pipe lengths can be produced up to 1.5 m or larger as per special request.**

**The thickness of the cladding is usually between 2% and 5% of the total sheet or plate thickness.**





The corrosion resistance of a substrate can be improved by metallurgical bonding to the susceptible core alloy a surface layer of a metal or an alloy with good corrosion resistance.

The cladding must not only have a good corrosion resistance but also it must be anodic to the core alloy by about 80 to 100 mV. If the cladding becomes damaged by scratches, or if the core alloy is exposed at drilled fastener holes, the cladding will provide cathodic protection by corroding sacrificially.

Compared to carbon and alloy steels, all corrosion resistant alloys are expensive. In many cases, corrosion resistance is required only on the surface of the material and carbon or alloy steel can be clad with a more corrosion resistant alloy. Cladding can save up to 80% of the cost of using solid alloy.



Capacity range up to 10 tonnes

- ◆ Pre & post weld machining
- ◆ Full dimensional inspection process
- ◆ NDT
- ◆ Ferrite testing
- ◆ Bonding checks
- ◆ Positive material identification



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