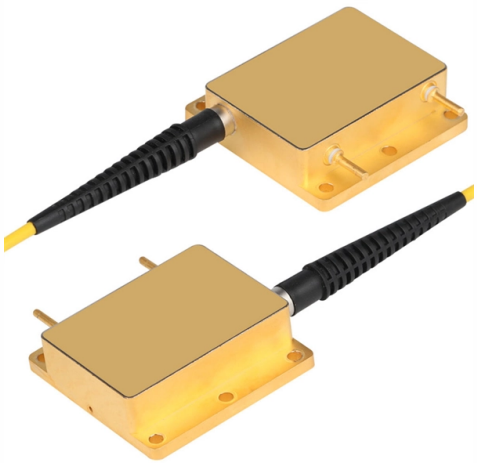
The pigtail is too bent to be easily welded



Overview

This imperfection is formed when excessive weld metal is added to the joint, which is usually a result of poor welder technique for manual processes but may be due to poor parameter selection when the process is mechanised. That is, too much filler metal for the travel speed. In simple terms, weldment distortion is the permanent bending, twisting, or warping of metal that occurs after welding. It results from the uneven heating and cooling during welding, which creates residual stresses that literally pull and push the metal out of shape. The heated zone wants to grow, the surrounding material restrains it, and the cooled weld zone then wants to shrink while the rest holds position. Once clamps. This case study details the failure of recently replaced inlet pigtail pipes for a hydrogen reformer furnace. The pigtail connection to the catalyst tube consisted of a ASME A-335 P22 pipe welded to an Incoloy 800HT weldolet.

Article Content

Envoy_LF_Incoloy 800HT V1 dd

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Straightening steel after welding distortion

Weld intermittently Weld different joints alternately Activities to do after welding to control the distortion Peening Controlled heating Straightening steel after welding

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This is often caused by poor manipulation of the electrode or welding gun, especially when the weld pool is large and ''cold'', where the welder allows gravity to

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Pot metal is not easily glued, soldered, or welded. The primary metal in pot metal is zinc, and it can contain lead, aluminum, copper, tin, magnesium, iron, and cadmium. Your bent piece in all

Is Pigtail Wiring Safe? Risks and Proper Installation

When too many wires and splices are forced into a box, the pressure can damage the conductor insulation or even loosen the connection within the wire nut. Step-by-Step Guide to Proper Pigtail

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Materials Evaluation and Engineering, Inc. :: Failure of Inlet Pigtail ...

This case study details the failure of recently replaced inlet pigtail pipes for a hydrogen reformer furnace.

What is a Pigtail Connector? A Complete Guide

Learn about pigtail connectors—short wires with a connector on one end—used to safely and efficiently join, extend, or repair electrical circuits.

Understanding and preventing common welding defects

Crater cracks occur when the weld pool cools down too quickly. These cracks make the weld weaker and more prone to failure. They usually

GPIC Ammonia & Methanol Reformers: Replacement of Pigtails

The project was critical in terms of high chrome alloy steel welding during fabrication and installation, performing the pigtail tubes installation activities in locations with very limited access, replacement of

Contact Us

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