

TALKING POINTS

High Speed Robotic Cladding Technologies

June 2022
TAH CORP
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Overview

Robotic Cladding System

--Fully automated Open Arc High Speed Cladding

-- Proprietary tandem machine setup

- 1. 6 axis MIG Welding Robot
- 2. Tandem water cooled MIG Welding Package
- 3. 2 axis servo control Gantry system

-- Vision-controlled capabilities:

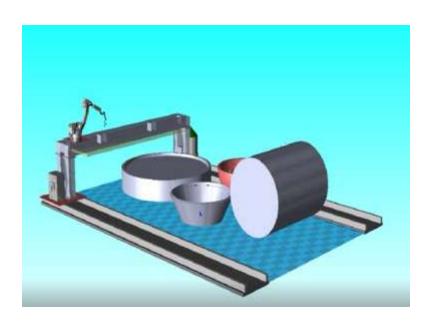
- Full video audit trail; image-based defect modeling (VH X3D Viewer3 software)
- 2. Seam Tracking Camera, 1 bead viewing Camera System plus Weld Puddle Camera CCD Camera

-- Proprietary spiral-weld techniques

- 1. 800 series steel
- 2. 690 series steel

-- Proprietary welding programs

- 1. Customer made cladding programs for customers
- 2. From 5 inches/ min to 37 inches/ min
- 3. From 12 to 24 lbs wire / hour
- 4. From 116 Kj to 19 Kj on first-layer
- 5. No cleaning between passes
- -- State of the art fumes extraction system



https://youtu.be/IJfCMFMx3NA

Metallurgy Technology

 Steel has high amounts of iron on the surface that promotes rusting.

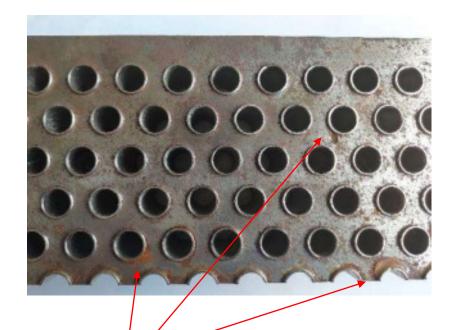


Unprotected Nuclear steel tube sheet manufactured in 2008

TAH's Patented Technology

Unprotected steel

Steel protected with TAH's Robotic Metal Coating (RMC) technology



Extensive rusting after manufacturing in 2008



Integrity of steel maintained after more than 11 years

TAH's Patented RMC Technology

Steel treated with RMC ———technology

Untreated steel



How This Help You!

Reduce Cost

Reduce Downtime

Increase Longevity

Improve Maintenance Cycles

Using The Latest Technology In Material

Science



by TAH CORP

Thank You

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