



SPECIALIZED WELDING TECHNOLOGY

THAT EXTENDS THE OPERATIONAL LIFECYCLE OF YOUR CRITICAL INDUSTRIAL AND PROCESSING EQUIPMENT

Our experienced craftsmen utilize our automated weld overlay repair solutions to restore original parent metal thickness requirements and protect and reinforce affected areas using a wide range of mild steel and alloys.

Universal Plant Services is North America's premier integrated specialty services provider. With industry-leading equipment and the newest technology advancements available, UPS provides Automated Weld Overlay and Specialty Welding Services for your facility during routine maintenance, turnarounds or emergency outage events.

WELD OVERLAY SERVICES

- › Adaptive GMAW-P Process for restoration of base metal
- › Vessel Thickness Minimum restoration
- › Nozzle and flange face restoration/hardening
- › Corrosion/Erosion hardening
- › Inner diameter of pressure vessels, both horizontal and vertical
- › Outer diameter base metal build up/repair to areas near insulation and stiffener rings
- › Pressure boundary repair and restoration
- › Temper bead welding techniques, in lieu of post-weld heat treatment

BENEFITS OF ADAPTIVE GMAW-P PROCESS

- › Provides a lower heat input than typical welding processes
- › High productivity rates compared to manual welding
- › Produces a superior quality finished product with exceptionally low dilution rates
- › Preset weld parameters secured against unintentional changes

APPLICATIONS

- › Coke Drums
- › Reactors
- › Vessels
- › Tanks
- › Towers
- › Heat Exchangers
- › Digesters
- › Piping ID & OD
- › Separators

SPECS

- › Fully automated height control
- › ID welding to diameters of $\geq 36"$
- › OD welding $\geq 36"$
- › Lightweight design
- › 100% duty cycle
- › 220 & 480VAC Compatible
- › Industry leading production rates

ALLOYS

- › Nickel and Chrome-based alloy application
- › Inconel 625
- › Hastelloy C-276
- › Monel
- › 300/400 series stainless steel
- › Many more applications





OIL & GAS



PETROCHEMICAL & CHEMICAL



LNG



POWER & UTILITIES



MUNICIPALITY INFRASTRUCTURE



RENEWABLES



MANUFACTURING & INDUSTRIAL



FOOD AND BEVERAGE



INDUSTRIAL GAS



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ASME, National Board

Our adherence to standards and guidelines assures our customers of quality service every time.