

PTAW Hardface/Overlay Welding

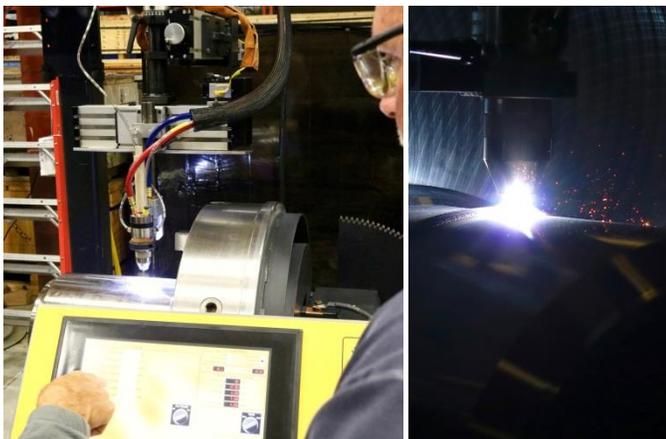
Background

Westinghouse Electric Company has optimized its process of applying hardfacing overlay for wear resistance through investment in new technology and product development. These assets and techniques are made available to our clients to enable them to develop efficient, cost-effective solutions. Customers can now have their challenging cladding projects completed in a fraction of the time and cost.

Our Plasma Transferred Arc Welding (PTAW) machine uses powder instead of traditional solid rods, which significantly reduces the cost of filler metal – sometimes by up to half or more. The PTAW features straight-forward controls that enable our experts to develop custom programs quickly and easily, which incorporate just the right energy parameters, travel speed, dwell time, step-over patterns, and much more.

Using this state-of-the-art equipment, the experienced team at our Newington, New Hampshire facility offers:

- Expert weldability assessments, cost estimates, and procedure development/qualification.
- Outside or inside surface application on round products with up to 30+” diameter.
- Work with a variety of metals, including carbon and stainless steel, nickel alloys, cobalt alloys, and more.



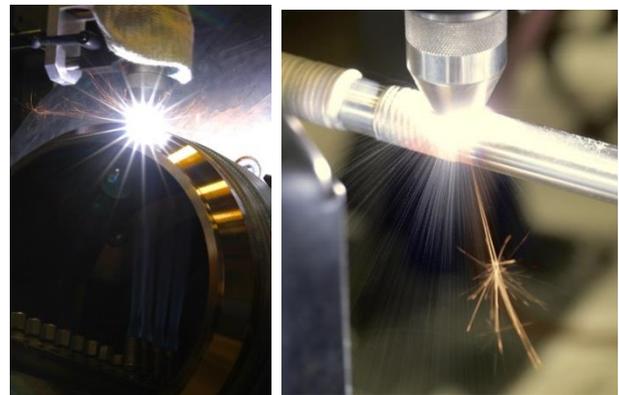
Westinghouse's Plasma Transferred Arc Welding machine

Benefits

Our skilled workforce of engineers, project managers, precision welders, quality inspectors, and other specialists are always ready to provide services to meet your needs. Our robust quality culture, developed over decades of supplying complex nuclear-grade components and products, gives you confidence that your work will be completed to your requirements and standards.

Our PTAW machine provides several benefits over traditional methods, including:

- Production rates up to 90+% faster, with reduced waste and cost, and increased quality and safety.
- Smoother deposits that simplify post-weld machining.
- Automated process with precise controls, providing a high degree of repeatability and lot to lot consistency.
- Weld deposits with very low levels of inclusions, discontinuities, or other imperfections.



Pre-heating nozzle and applying wear resistance overlay to pin

Westinghouse Electric Company distinguishes itself with our robust quality assurance program, depth of experience and expertise, and ability to deliver projects with certainty.

For more information, please send an email to MFG-info@westinghouse.com.

