
Weld Overlay Cladding

Protection against
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Weld overlay cladding provides protection against corrosion and wear for process and pipeline equipment. Weld overlay can be applied to extend the service life of new parts, or refurbish parts that have corroded or worn surfaces.

Arc Energy Resources, a specialist in weld overlay cladding since 1994, has built up a reputation as one of the UK's leading weld overlay experts. Dedicated to upholding the highest quality standards, Arc Energy excel in supplying weld clad products to a diverse variety of market sectors.

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Corrosion and corrosion prevention cost industry billions of dollars every year. Preventative measures employed to extend the operating life of equipment, including the choice of materials to use, is central to the cost effective manufacture and safe long-term operation of components such as pipelines, flanges, valves and pressure vessels amongst other parts.

Arc Energy's highly versatile weld overlay cladding service provides the practical solution of readily available base materials, combined with corrosion resistant alloys to protect any critical area. This gives the benefit of huge cost savings, and reductions in lead time.

Flexibility

Arc Energy's weld overlay cladding technology utilises a range of processes with great flexibility. An array of component shapes and sizes can be protected, with an equally broad range of base material/cladding alloy alternatives.

Whether a one-off special or a large production run is needed, Arc Energy's ability to clad complex geometries has made weld overlay the most adaptable and flexible anticorrosion method in use.

Quality

The weld overlay service offered is of the highest possible standard. Arc Energy's engineering approach is primarily focused on quality, with welding and quality management systems certified to ISO 9001:2008, ISO 3834-2 and ASME.



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Capacity

With a multi-million pound turnover, 75 staff and work space totaling in excess of 30,000 square feet, Arc Energy has the capacity to satisfy almost any weld clad requirement. Dedicated weld overlay workstations use single and multi head, and include conventional rotating stations, continuously rotating head stations and specifically designed pipe cladding stations, all equipped with the latest advanced control and inspection facilities.

Arc Energy has the capability to clad bores ranging in size from 20mm up to 4m in diameter, weighing up to 15 tonnes. Utmost pride comes from being able to provide the perfect solution to clad the most complex of geometries.

A range of supporting services is also available, including full material supply and machining, heat treatment, NDT and PMI facilities.

Processes

A comprehensive range of welding processes is used, including hot & cold wire pulsed GTAW, GMAW, twin wire, SMAW, submerged arc, electroslag and plasma.

Centre of Excellence

Arc Energy Resources is a Centre of Excellence for weld overlay cladding. This is based on the expertise built up by highly trained and experienced work force; many with more than 25 years of supplying weld overlay services.

Research & Development

A dedicated in-house R&D team is constantly striving to improve the productivity and quality of existing welding procedures, and develop new processes and techniques.



Arc Energy Resources Welding Engineering Specialists

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