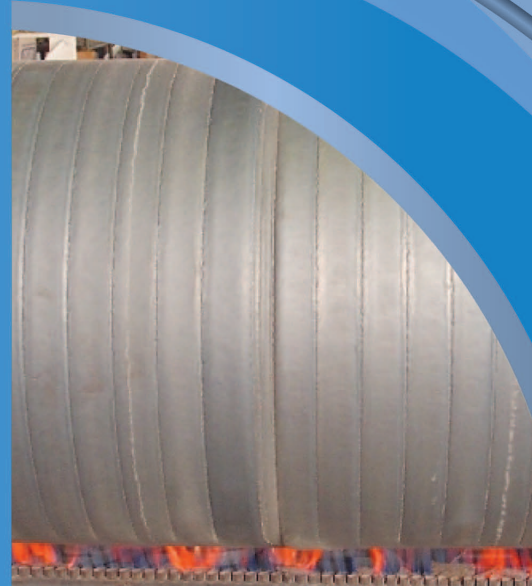
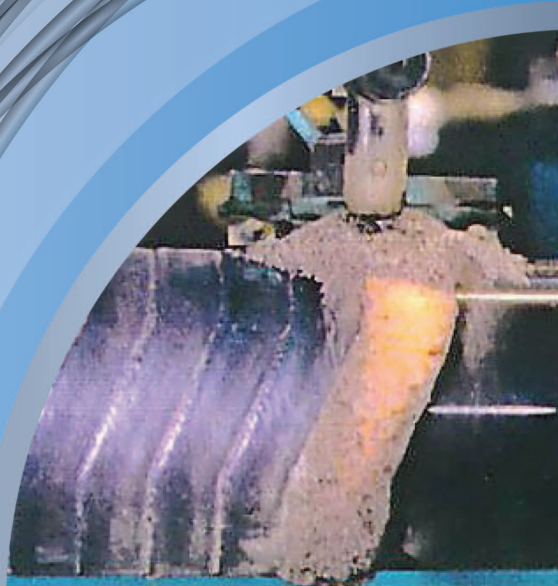




# Weldclad

ROLL WELDING TECHNOLOGY



The Weldclad brand from Corewire delivers the consumables, the equipment and the know how to enable cost effective cladding of rolls used in steel and non-ferrous production.



## Continuous Caster

Weldclad have established the benchmark for clad roll performance throughout the continuous caster. Weldclad rolls are used globally on **slab, bloom, billet** and **thin slab** casters to improve roll life and reduce maintenance costs. Weldclad established the concept of “**zoning**” to optimise the choice of materials and welding procedures so that foot rolls through to withdrawal rolls demonstrate consistent and controlled weld microstructure giving **superior and reliable performance**.

## Hot Strip Mills

Weldclad rolls have also overcome the challenges of the hot strip mill. Process rolls from the **descaler through to the downcoiler, including transport, tensioner and edger rolls**, benefit from the **improved life** and **reduced cost** attainable with the Weldclad technology.

## Plate and Section Mills

Weldclad surfaced rolls have been utilised extensively on **plate leveller roll packages** and in **primary section mills** where the consistent deposit quality has contributed to **improved and reliable roll life**.

## Weldclad Consumable Range

The Weldclad range of consumables was originally developed for submerged arc welding and has been extended to include selected products for open-arc and gas-shielded applications. Weldclad consumables are manufactured to tight specification limits delivering **consistent weld chemistries, microstructures and mechanical properties**. The extensive range of Weldclad products provides the right balance of properties for each application. Whether the need is to **maximise resistance to crack propagation, provide corrosion-erosion resistance, or maximise wear resistance** there is a Weldclad welding consumable to suit even the harshest conditions.

The Weldclad Roll Welding machines designed and manufactured by Corewire Ltd enable efficient and economical cladding of new and reclamation of used process rolls.

## Roll Welding Machines

Available with single or multiple welding heads, and capable of welding multiple rolls simultaneously, the Weldclad roll welding machines are designed to ensure **highly efficient, high quality roll surfacing and reclamation**. The machines are of a robust construction and **built to last**.

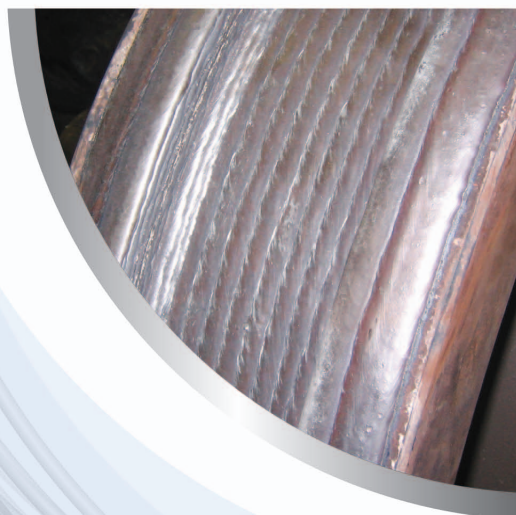
Weldclad machines are based around the submerged arc welding process for maximum efficiency. The **very high deposition rates** attainable on the Weldclad roll welding machines achieve optimum roll throughput. Exposure to ultra-violet radiation and fume emissions is eliminated with sub-arc welding. Together with minimal operator input, the Weldclad roll welding machines set the standard for effective roll welding practice.

## ..a flexible approach

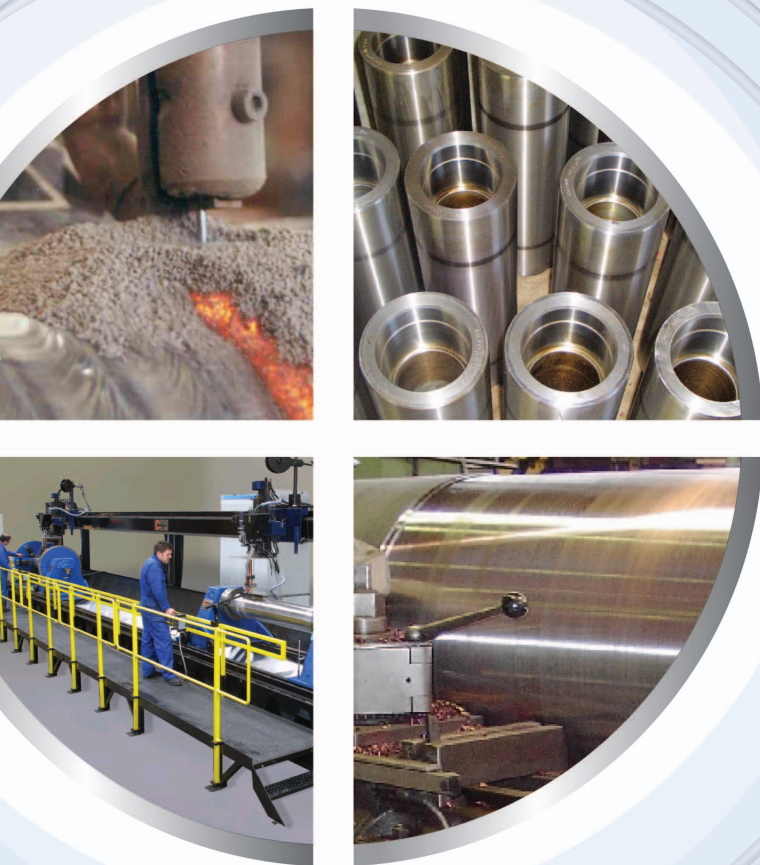
Our customer-oriented approach to machine design and build ensures the capability of the welding machines satisfies your exact requirements. **Whether welding foot rolls of 100mm in diameter or pinch rolls at 900mm diameter, Corewire have the capability to deliver a Weldclad roll welding machine to meet your requirements.**

## A Total Technology Package

The Weldclad consumables and the Weldclad Roll Welding machines together enable the cost effective production of high quality clad rolls. However, to realise the full benefits of the Weldclad technology, Corewire provide **full technical support** to our customers including **material selection, welder training, weld procedure qualification and consultation**. By providing full technical support, **including welding procedures** for individual jobs, Corewire ensure our customers can fully exploit the benefits of roll reclamation and cladding using the Weldclad technology.



Established in 1976, Corewire Ltd is amongst the world's leading producers of flux-cored welding consumables and machines for hardfacing and maintenance. Following considerable development, Corewire products are now offered under the Corewire, Weldclad and Forgeweld brands in recognition of the underlying technology and demands of client industries.



## **COREWIRE**

Corewire branded products are designed for general hardfacing, repair and maintenance. The Corewire range of welding consumables includes low-alloy, tool steel, chrome carbide and complex carbide products. Corewire products are used extensively in the mining, quarrying, cement, agriculture and rail industries amongst others.

## **Weldclad**

Weldclad is recognised as a world leader in the manufacture of submerged arc welding consumables and machines for the cladding of rolls, and associated components, used in steel making and non-ferrous industries. The product range includes proprietary tool steels and stainless steels designed to provide resistance to corrosion, wear and thermal fatigue.

## **Forgeweld**

The Forgeweld range of welding consumables and machines are designed specifically for the repair and reclamation of dies, tools and auxiliary equipment used in the forging industry. The product range extends from low-alloy products for local repair of forging furniture to nickel based materials for the repair of open-forging hammers.

### **The product is only part of the service**

Corewire Ltd endeavours to provide all our customers with a complete package of technical support, from welding procedures through to on-site training and consultation. Therefore, if you

would like to discuss our products and services or your application further then please do not hesitate to contact us.

**[www.corewire.com](http://www.corewire.com)**

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