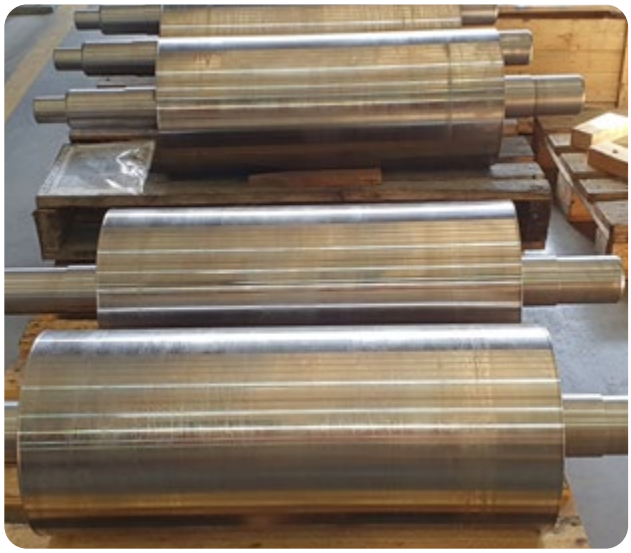
LASERBOND
ENGINEERED RESILIENCE



Composite Carbide Wear Resistant Steel Mill Rolls

Composite Carbide Wear Resistant Steel Mill Rolls





Laserbond® re-engineers and manufactures a comprehensive range of Steel Mill Rolls and Roll Shells (cantilever, run out, aligning, persuader, pinch, side guide and looper).

Our rolls are manufactured, and surface engineered, with a Composite Carbide, designed to exceed customers' expectations.

Steel Mills using the Laserbond® Wear Resistant Rolls have all reported exceptional in-service performance up to 20 times longer life than standard Rolls through superior heat and abrasion resistance.

Laserbond® Composite Carbide Rolls and Shells can be purchased in all lengths and diameters knowing that they will outperform OEM rolls and deliver significant maintenance and total lifecycle cost savings.

Features and Benefits Laserbond® Composite Carbide Rolls

- Roll surface temperatures up to 950 deg F/ 500 deg C (Roll surface temperature is well below this level due to intermittent contact and cooling systems on the mill).
- Outstanding resistance to frictional wear and operating pressure up to 19,000 psi and hardness of 60 HrC.
- Coating thickness of .050" in as clad finish down to 0.030" fully ground and super finished.
- Coarser finish offers excellent 'grip where necessary' and more coating thickness.
- Roll Shell manufactured to replace existing OEM Shell.
- Laserbond® surface engineered Carbide Composite Roll with last up to 20 times longer.
- Rolls are laser engraved for ease of identification and traceability.

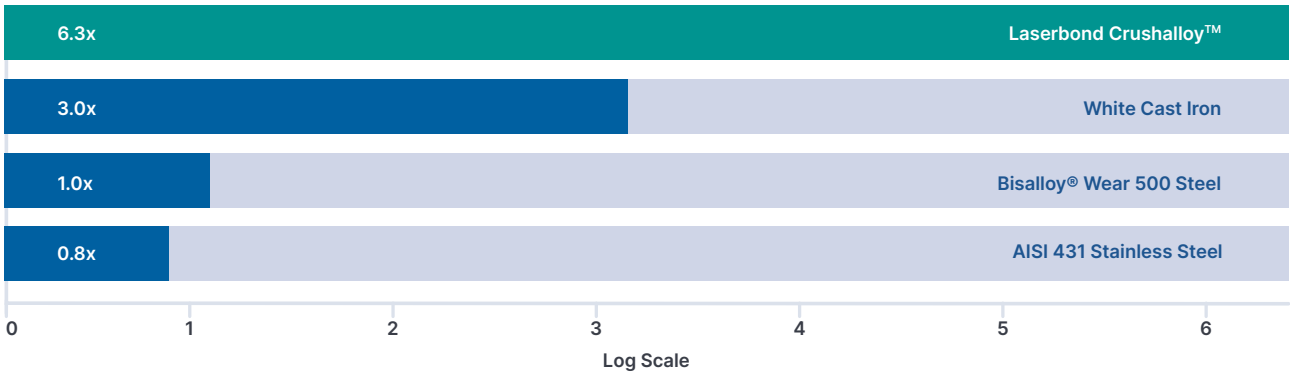
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Cost Benefit Analysis

THIS COST BENEFIT ANALYSIS IS BASED ON TABLE ROLLS IN A STEEL MINI MILL

		Original OEM Roll	Laserbond® Clad Roll	Savings Multiplier
Roll Life (Tonnes)	Rolls in Line: 120	55,000	1,980,000	
Roll Cost ($)		$620.00	$1,140.00	
Cost per Tonne - Full Line		$1.35	$0.07	19.6
Roll Life Weeks		7	234	
Cost per Week - Full Line		$11,429.00	$584.00	19.6
Operational Costs per annum		$594,286.00	$30,348.00	
Operational Cost Saving per annum				$563,938.00

ASTM G65-A - ABRASIVE WEAR TEST



Abrasive wear is a common form of material loss of parts in contact with hard particles. In order to reduce wear and extend wear life, hard, wear- resistant materials are selected for components subject to high abrasion.
The graph compares that wear resistance of Laserbond's Crushalloy™ with white cast iron, the wear plate material Bisalloy® 500 (Hardox 500) and the martensitic stainless-steel ASI 431. The wear resistance of Crushalloy™ is 6.3 times higher than Bisalloy® and more than twice as high as white cast iron.

About Laserbond

In Australia we became the first specialist surface engineering company operating a laser and now have over 21 years' experience in repair and refurbishment of many production critical components in steel making, mining, and manufacturing. Our vast expertise means materials are selected, customised and applied to deliver the very best properties of abrasion, impact, pressure, and heat resistance in the customer's specific operating environment.

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