

PRODUCT
APPLICATION

The latest
surface
engineering
product offer is
LaserBond®

X-CLAD

Extreme Wear Protection for Severe Service

X-Clad is a premium Laser Clad surface engineered with fine Tungsten Carbide (WC) - up to 70% by weight, delivering hardness up to 1000 HV. Designed for the most demanding environments, X-Clad provides exceptional abrasion, wear, and corrosion resistance.

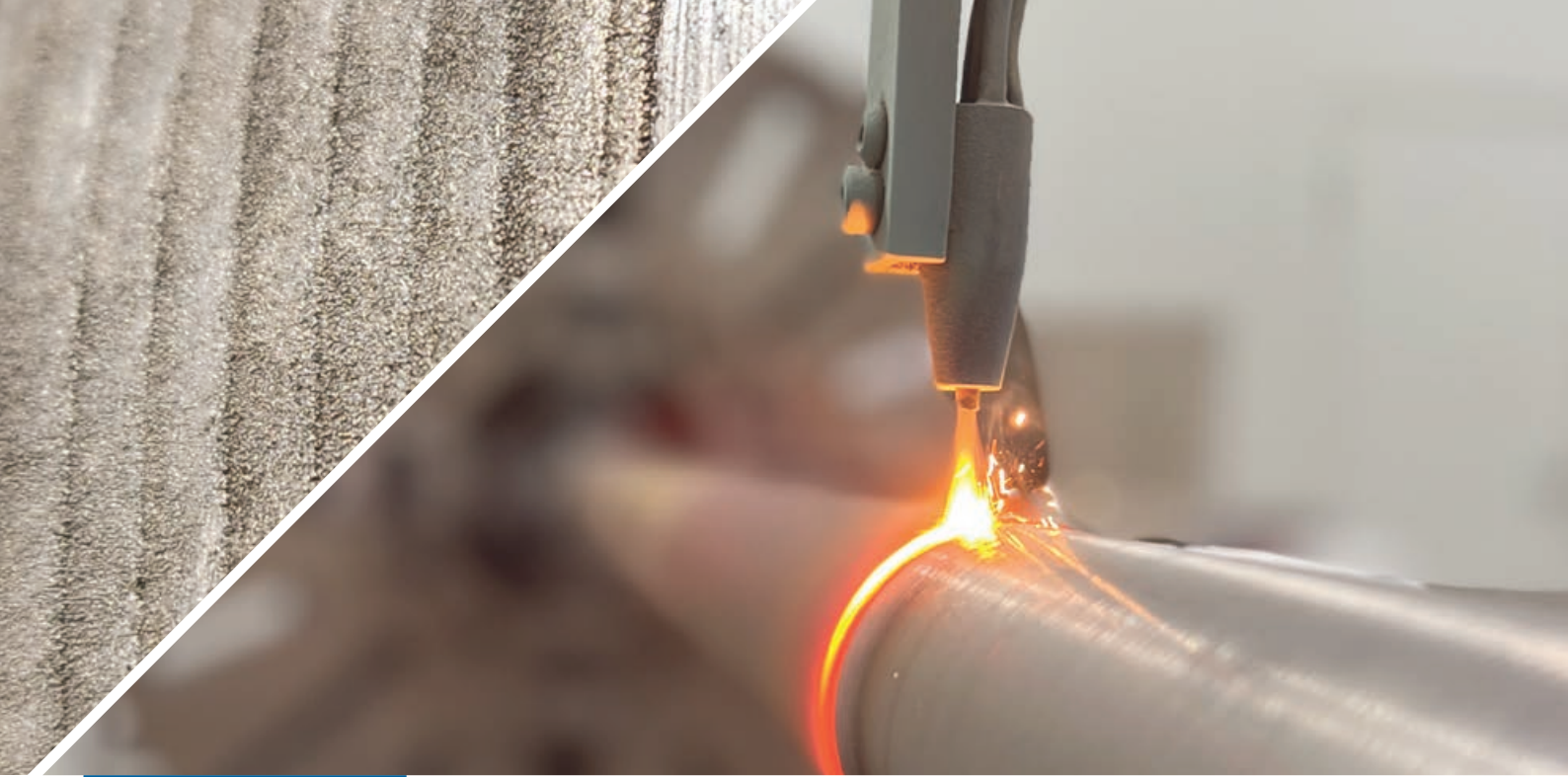
KEY BENEFITS

- 1 Superior wear resistance
- 2 No interconnected porosity
- 3 Good corrosion resistance
- 4 Tailored coating thickness (from 0.5 mm)

TYPICAL APPLICATIONS

- Pump components
- Minerals processing equipment
- Food processing equipment (FDA approved)
- Boiler tubes
- Nozzles and valves
- Oil & gas industry components

LASERBOND®



X-CLAD IN DETAIL

Advanced Laser Cladding Technology

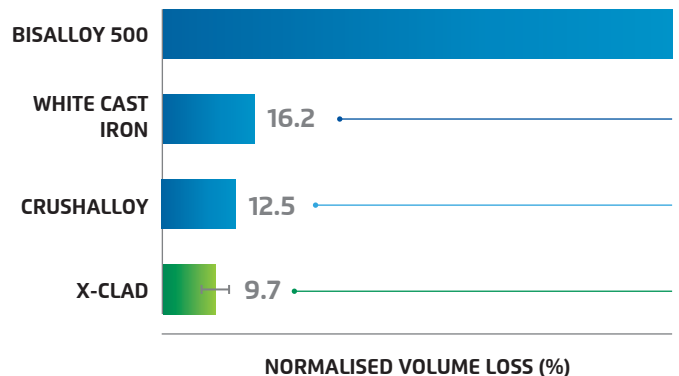
X-Clad is a metallurgically bonded tungsten carbide overlay in a hard nickel-based matrix. The use of fine WC particles used in X-Clad enables higher carbide content, delivering superior and more uniform wear resistance with a smoother wear surface. Enhanced impact resistance, negligible porosity, and stable chemistry provide excellent performance in abrasive, erosive, and corrosive environments.

Designed for Sustainable Manufacturing



- Reduced use of critical minerals
- Lower energy consumption
- Improved cost efficiency

WEAR RATE - ASTM G65-A



The graph shows the independently tested wear results according to standard ASTM G65-A, known as rubber wheel test. The wear plate material Bisalloy®500 serves as a reference. The volume loss of white cast iron is 16.2% of Bisalloy, Crushalloy and X-clad, 12.5% and 9.7%, respectively. That means the service life of X-clad under abrasive conditions is more than 10x of the wear plate material.

ABOUT LASERBOND

LaserBond Limited is an Australian publicly listed company (ASX:LBL) specialising in surface engineering, reclamation, engineering, precision machining and fabrication. We have been in operation since 1992, commencing operations as HVOF Australia Pty Ltd. We were the first to design, build and operate a commercial laser cladding system in Australia. LaserBond manufactures, repairs, reclaims, and enhances the performance of high wear, critical metal components in a range of capital-intensive industries.