A proven technology to substantially increase the service life of heavily wearing critical parts

- Wear resistant blocks produced by automated flood welding
- Reinforced components as a result of the increased volume of wear resistant material and innovative geometry
- Even wear resistance

Benefits:
- Increased productivity
- Fewer and shorter production stoppages
- Significant reduction in the cost of spare parts
- Elimination of intermediate and hazardous maintenance operations
- Extended lifetime, by at least 3 times

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Welding Alloys has developed a unique knowledge of crusher equipment and has designed a specific range of cored wires with wear characteristics to optimise the crusher’s performance, reducing maintenance costs.

Hardfacing by arc welding is a surfacing operation using a cored wire to extend the service life of specific components. This is carried out preemptively on new components or as part of a maintenance programme on worn parts.

The result of significant savings in machine downtime and production costs has meant that this process has been frequently adopted in many industries. For each type of component there is a Welding Alloys cored welding wire to provide wear resistance.

Additionally, Welding Alloys manufactures custom-designed modular welding equipment, including semi-automatic semi-fixed, portable automated machines for in situ work and fully automated machines, including component manipulation with robotic controls.

With Welding Alloys, customers will always benefit from complete, innovative wear protection solutions.
Our expertise
For more than 50 years, Welding Alloys has gained extensive expertise in the repair and maintenance of components subject to wear in the cement production line. The development of dedicated products to tackle specific problem areas means that Welding Alloys can provide tailored solutions no matter what type of equipment is being used.

Benefits of using Welding Alloys’ solutions:
• Extended lifetime of components
• Improved crusher efficiency
• Stable finished product granulometry

Welding Alloys provide a wide range of solutions for different types of crushers

 WA Wear Plates
Welding Alloys manufactures a range of welded overlay plates available in standard dimensions or cut-to-size in a wide range of thicknesses. Our plate products provide a cost-effective solution to wear problems and boast wear-resistant properties far exceeding those of quenched and tempered and other abrasion resistant steels.

Hardplate™
Heavy duty composite wear plates

• Base material and overlay thickness selected according to the application
• Selection of various overlay materials available depending on the area of use and the wear mechanisms present
• The preferred solution for maintenance of wear areas

Hardlite™
Ultra-thin composite wear plates less than 5mm thick

• Ideally suited for areas of high wear, where weight restrictions apply
• Easily formable, despite its very high hardness
• Thanks to its light weight, it is most suitable for wear protection of moving parts, i.e. fan blades.

Tuffplate™
Impact resistant wear plates

• Designed to be used in areas of high impact, with or without the addition of abrasion
• Ideally suited for areas of material transfer and transportation
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WA Hardfacing

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Welding Alloys Group
January 2018

Crusher Equipment
WA Solutions for crushers maintenance and repair

Our Technical ‘Spark’ Solves Your Industrial Challenges

A worldwide presence

WA Consumables
The go-to provider of advanced welding consumables

WA Machines
The go-to provider of automated equipment for wear protection

WA Integra™
The go-to provider of engineered wear protection solutions

www.welding-alloys.com
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