

RIJDAM – WELDING ALLOYS AGRICULTURE AND FOOD

Fans and Casings

Hoppers and chutes

Ploughshares

Rotary valves

Sieves and screens

Tubes, pipes and elbows

Wearplates and liners

Fans and Fan casings

Welding Alloys' solution

The casing and rotor of the fan can be protected from problems caused by failure of blades, impeller fatigue and other problems such as corrosion, erosion or issues with variable speed using Welding Alloys wear plates. These wear plates consist of a steel plate and hardfacing applied by arc welding, which exhibits a refined micro structure with a high volume of carbides.

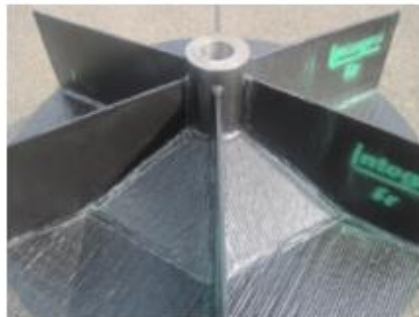
Our solution is able to withstand abrasive dust, corrosive gases and fumes which are removed from the sintering process using fans.

Benefits

- Extend service life
- Reduced maintenance costs for the customer due to the wear plate's high resistance to abrasion and erosion
- Minimised downtime

Consistency and customer service

Our wear plate family – **Hardplate™** and **Hardlite™** are manufactured using Welding Alloys cored wires and welding equipment. They are distinguished by the homogeneity of the deposit, regular appearance and can be easily cut and shaped as required.



Hoppers and Chutes

Welding Alloys' solution

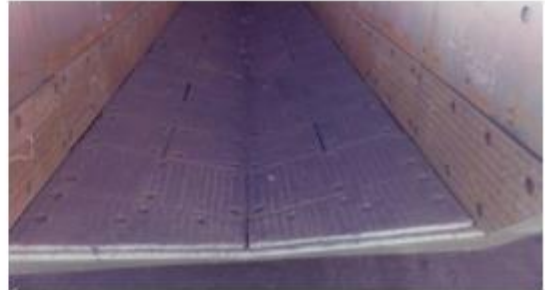
- Welding Alloys's impact plate, **Tuffplate™**, contains extremely hard, finely dispersed titanium carbides in a high chromium martensitic matrix. It has been produced for heavy duty equipment, mainly in quarrying, for parts like hoppers and chutes to resist impact, high pressure and abrasion.
- More resistant than standard quenched and tempered abrasion-resistant steel plates, **Tuffplate™** can be manufactured in standard dimensions or made to measure.
- We can refurbish used parts or fabricate new parts using our wear plates to protect components against the harsh environments in which they operate.

Benefits

- Increased service life of the parts
- Resistance to impact and shock
- Greater production efficiency thanks to a special protective solution.

Consistency and customer service

Tuffplate™ is made using specially designed Welding Alloys cored wires and is distinguished by the homogeneity of the deposit and regular appearance. Welding Alloys works closely with customers to ensure we offer the best solution to meet their specific needs.



Ploughshares

Welding Alloys' solution

Ploughshares in the agriculture industry are subject to substantial abrasion. To mitigate the effects of this, Welding Alloys offers a preventive hardfacing solution. Welding Alloys is able to hardface two ploughshares simultaneously with its automated, multi-head **H-Frame** welding machine and utilises its specially developed, innovative cored wires to ensure optimal protection.

Benefits

- Ploughshares achieve a longer lifetime with Welding Alloys' preventive hardfacing solution.
- Costs and maintenance downtime are reduced and productivity is increased.

Consistency and customer service

The combination of our Integra™ service, our advanced welding consumables and our automated welding machines means that we can provide tailor made, effective hardfacing solutions for ploughshares.



Rotary valves

Welding Alloys' solution

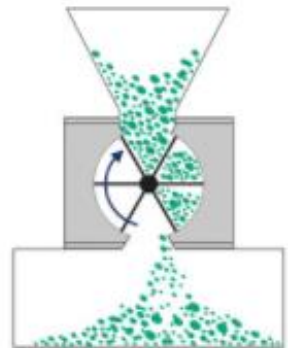
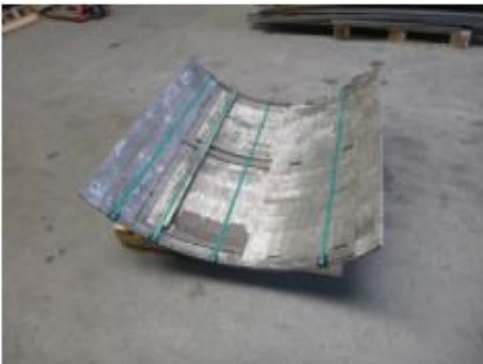
Welding Alloys uses a special *Hardplate™* to protect the body shell and rotor of a rotary valve as these parts are exposed to severe wear. We provide the best option to prolong the lifetime of your rotary valve.

Benefits

Compared with changing the body shell or the rotator with a standard one (not protected), Welding Alloys' solution extends the lifetime of the production equipment up to three times and reduces maintenance downtime, production losses and costs.

Consistency and customer service

Our *Integra™* engineers provide tailor made solutions ready to be installed and guarantee a consistent high-quality finish.



Sieves and screens

Welding Alloys' solution

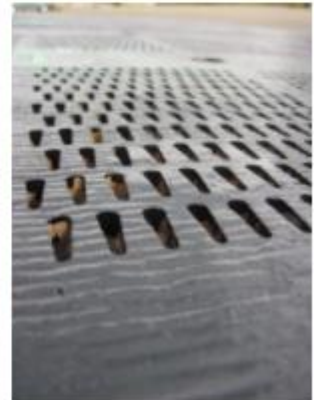
- Sieves / screens with a smooth surface and high definition cut holes to help eliminate blockages, offering outstanding wear properties where temperature is an issue, resulting in a more efficient plant.
- Hot sinter screen lines manufactured using our wear plates in a wide range of designs and grades according to the working conditions.
- New screens that can be manufactured for use in material handling where impact and abrasion occurs.
- Guaranteed lower deformation than with standard plates thanks to special Welding Alloys technology.
- Installation of the fabricated parts on site.

Benefits

- Better wear control and improved life of the components: sieves / screens do not need to be replaced outside the planned maintenance schedule.
- Reduced costs.

Consistency and customer service

Our previous experience proves we achieve great performance results from our wear parts and illustrates we have the know-how to control wear and to protect any type of equipment.



Tubes, pipes and elbows

Welding Alloys' solution

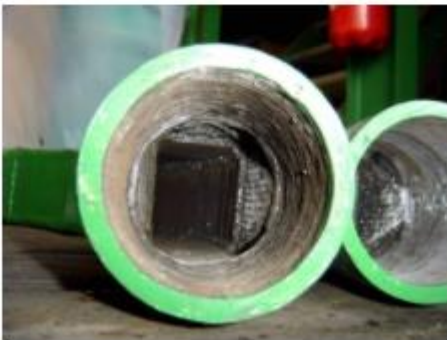
- Welding Alloys can redesign & manufacture new parts using our ultra-light wear plates, **Hardlite™**. These plates combat wear on the internal surfaces caused by circulating abrasive particles inside the equipment used for material transfer in various industries.
- **Hardlite™** has a maximum thickness of 6mm and offers an extremely high resistance to abrasion and erosion thanks to a very hard deposit applied by arc welding. The result is a refined microstructure with a high volume of chromium carbides.
- **Hardlite™** is lighter, easier, safer to handle and more flexible than standard wear plates, so it can be easily shaped and adapted to your installation.
- The perfect solution where weight is a key factor.

Benefits

Longer equipment service life and better wear resistance can be achieved by applying this product, which is harder than quartz.

Consistency and customer service

Our Integra™ Service Centres can manufacture and supply a full range of wear plate products in accordance with OEM or the customer's own designs, Welding Alloys are also able to develop specific welding wires to fulfill any customer requirements.



Wearplates and liners

Specifically designed and manufactured by Welding Alloys, our wear plates comprise a base plate of construction steel and a wear resistant coating applied by arc welding, offering exceptional resistance to abrasive wear. Produced using specially developed Welding Alloys cored wires, WA wear plates & liners are distinguished by their:

- Homogeneity of the deposit
- Regular appearance
- High quality consistency, guaranteed by the use of advanced automatic equipment designed and manufactured in our service centres
- Functionality and adaptability

In addition, our range of plates including **Hardlite™**, **Hardplate™** and **Tuffplate™** are manufactured globally in our Integra™ Service Centres in accordance with internal welding procedures of the highest standards. The wear plates are available in standard dimensions or made to measure, in the widest range of thicknesses.

Hardplate™

Heavy duty composite wear plates

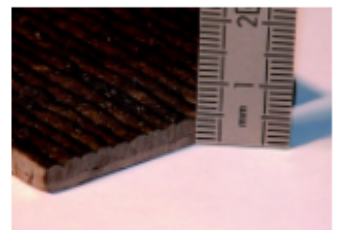
- Base metal and coating thicknesses selected according to the application
- Choice of several coating types
- Preferred solution for maintenance



Hardlite™

Ultra-thin composite wear plates - less than 5mm

- Specially adapted for applications where weight is restricted
- More adaptable, lighter and harder
- Advantageous for moving parts



Tuffplate™

Impact resistant wear plates

- Designed for applications susceptible to a combination of wear and impact
- Ideal solution for material transfer and transportation areas

