



ACTING GLOBAL
WELDING LOCAL

WA Applications for Cement Plants

WA GAMMA 182 for heavy casting repairs (casting & forging)

Advantages and benefit compared to stick electrodes:

- Welding time considerably reduced = **50% reduction of downtime**
- **10-15% savings** in material consumption
- Higher real efficiency
- Welder appeal
- High mechanical properties

WA Hardfacing Roller Presses

- Total engineering solution for repair of worn roller press grinding components
- In-situ operations or in our Integra Service Centre
- Supply of new advanced roller press grinding components
- Additional services: monitoring of the surface wear, application of chevrons or any specific geometry to increase efficiency

WA Hardfacing Vertical Grinding Mills

- Supply of new preventively hardfaced advanced grinding components
- Hardfacing of worn castings back to the original component profile
- Refurbishment grinding of components within the local Integra Service Centre or in-situ
- Use of future-proof technology allowing continuous development in hardfacing technology
- Application to several components: separator, hot gas ring, casing, piping and dam ring

WA 3-DCarb – Wear protection

Applications:

- Chutes
- Thick plates
- Hammers

Advantages:

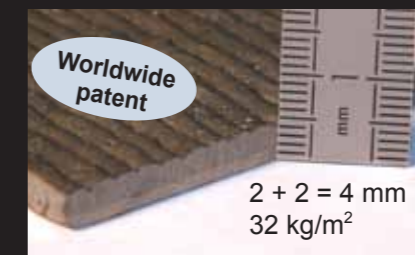
- Increased productivity
- Fewer and shorter production stoppages
- Significant reduction in the cost of spare parts
- Elimination of intermediate and hazardous maintenance operations
- Increased lifetime, by at least 3x

WA Wear Plates

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

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

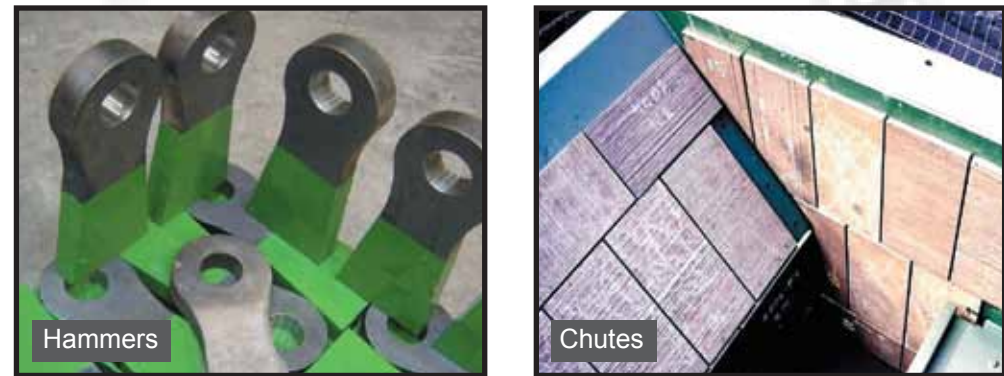


Hardlite™
Ultra-thin
composite wear plates
- less than 5mm

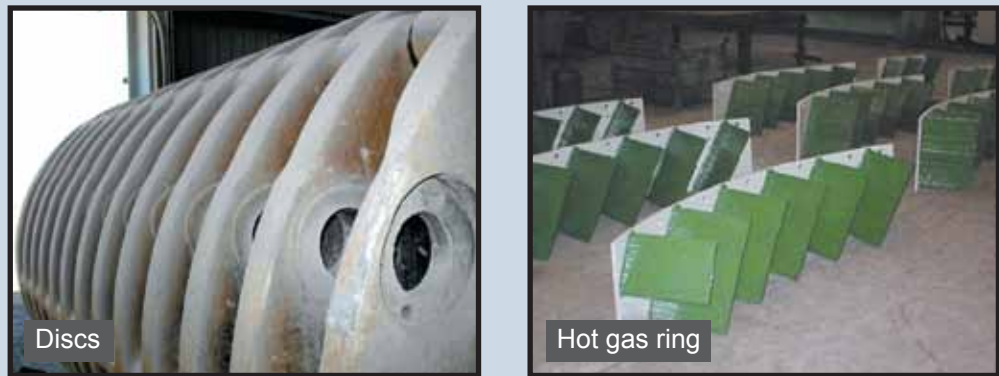
- Designed for applications susceptible to a combination of wear and impact
- Ideal solution for material transfer and transportation areas

Tuffplate™
Impact resistant
wear plates

Our range of plates including **Hardlite**, **Hardplate** and **Tuffplate** are available in standard dimensions or made to measure, in the widest range of thicknesses.



Quarry



Pre-homogenisation



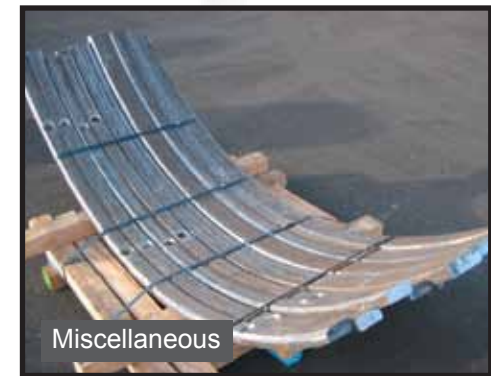
Raw mill



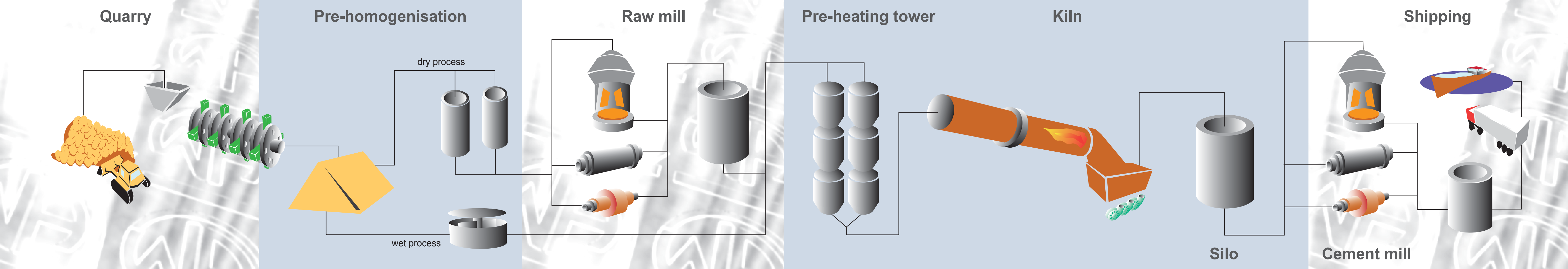
Pre-heating tower



Kiln



Shipping

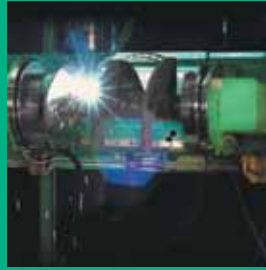


From quarry to shipping, always a WA solution

A perfectly controlled technology



WA Cored Wires™
Design and manufacture
of all types of cored
welding wires



WA MultiSurfacer™
Design and manufacture
of automated welding
equipment for hardfacing
and rebuilding applications



WA Integra™ Services
Innovative hardfacing
and rebuilding solutions
by welding

A worldwide presence

United Kingdom
(Head office)
Welding Alloys Ltd

Argentina
Welding Alloys Argentina S.A.

Australia (Trading Partner)
Specialised Welding Products Pty Ltd

Brazil
Welding Alloys Brasil Ltda

China
Welding Alloys China Ltd

Egypt
Welding Alloys Egypt

Finland
Welding Alloys Finland Qy

France
Welding Alloys France SAS

Germany
Welding Alloys Deutschland
Legierungstechnik GmbH
Welding Alloys Deutschland
Schweisslegierungs GmbH

Greece
Welding Alloys Hellas EPE

India
Welding Alloys
South Asia Pvt Ltd

Iran
Aliaj Joosh Iran

Italy
Welding Alloys Italiana s.r.l.

Japan
Welding Alloys Japan

Malaysia
Welding Alloys (Far East) Sdn. Bhd.

Mexico
Welding Alloys
Panamericana S.A. de C.V.

Morocco
Welding Alloys Morocco

Poland
Welding Alloys Polska Sp. z o.o.

Russia
Welding Alloys Russia

South Africa
WASA (PTY) Ltd

South Korea
Welding Alloys Korea Ltd

Spain
Welding Alloys España

Sweden
Welding Alloys Sweden

Thailand
Welding Alloys (Thailand) Co. Ltd

Turkey
Welding Alloys Limited Şirketi

Ukraine
Welding Alloys Ukraine

United Arab Emirates
Welding Alloys Middle East FZC

USA
Welding Alloys (USA) Inc.

Vietnam
Welding Alloys Vietnam Co. Ltd.

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