



OPTIMIZED CRUSHING PROCESSES & COST CONTROL

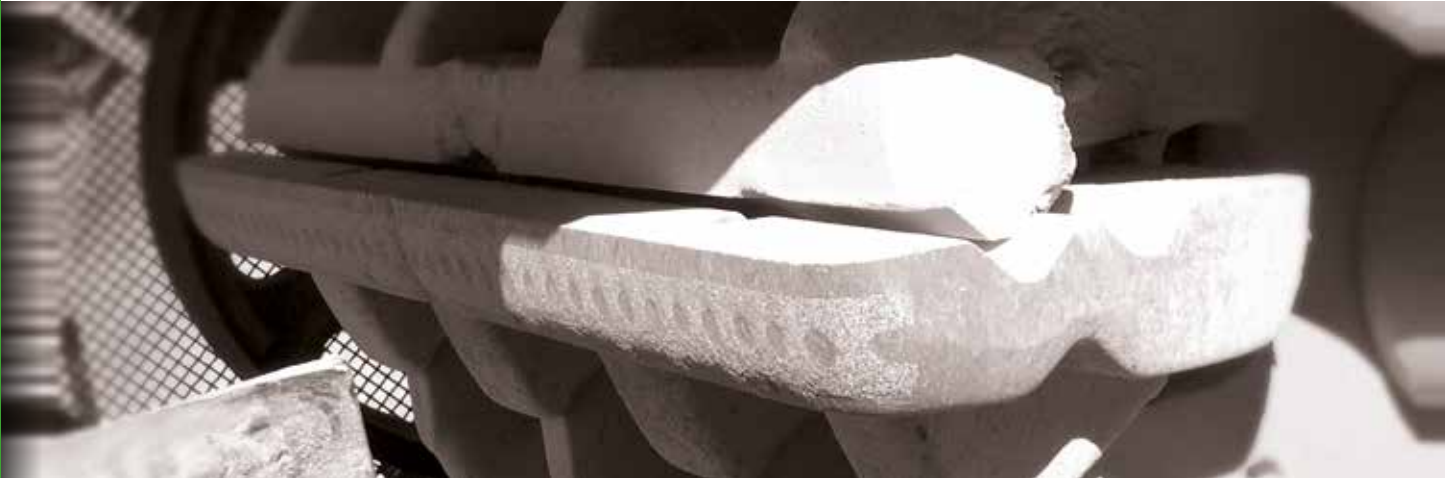
Xwin + MARTENSITIC STEEL

Xwin® Martensitic Steel is a standard MMC (Metal Matrix Composite) solution which was first developed to recycle building waste; it has now been used for many years and is hence renowned on the market. This solution is also successfully applied to impact plates.

Against white iron solutions, which are breakable, the use of **Xwin® Martensitic** solutions reduces the risk of breakage of the blow bars to its lowest level according to applications.

KEY BENEFITS:

- Increased lifetime (from 80 up to 120%)
- Reduced maintenance
- Maintained original wear profile
- Improved productivity



Xwin + WHITE IRON

Xwin® white iron was also developed for the secondary and tertiary stages of HSI & VSI crushers.

Combining the high wear resistance of the ceramic compound with a high chrome white iron increases the lifetime while keeping the physical parameters of the required matrix.

This MMC (Metal Matrix Composite) solution is based on an initial 62 HRC hardness high chrome carbide matrix with a significant carbide contents.

KEY BENEFITS:

- Increased lifetime
- Reduced production costs
- Maintained original wear profile
- Reduced oversize percentage





Recyx® results from years of research based on the Xwin® technology. It is a product especially developed for the recycling industry. The Magotteaux sales force asked their R&D department to develop a new solution based on 2 pre-requisites:

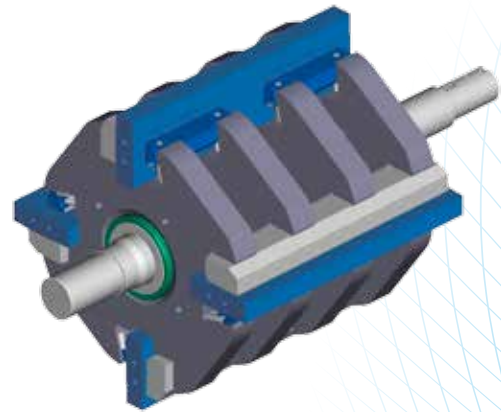
- increase the lifetime of blow bars while keeping the optimum wear profile until the complete end of life.
- maintain the same low risk of breakage as the Xwin® Martensitic Steel solution in standard working conditions.



Recyx® has a carbon content allowing it to reach a toughness of $>100 \text{ J/cm}^2$ along with an increase of its lifetime. Whilst most competitors tend to increase the carbon content, which reduces the toughness below 50 J/cm^2 and increases the risk of breakage as a consequence.

KEY BENEFITS:

- On top of the Xwin key benefits the lifetime is increased up to 60% in comparison with our Xwin



neoX® is a new technology developed and manufactured 100% in-house.

In very abrasive material and/or difficult working conditions, **neoX**® will allow our customers to reach their major targets namely to increase production and reduce their production costs.

neoX®, for now based on a high chrome carbide matrix, allows to increase the lifetime of blow bars, impellers, anvils and, in the near future, impact plates, from 80 up to 100 %in comparison with monometal solutions.

In the case of horizontal shaft impactors, it also allows to solve the problem of the side wearing of the blow bars leading to a more uniform wear profile until the end of life of the item.



FROM YOUR SOFTEST NON-ABRASIVE APPLICATIONS TO YOUR EXTREME ABRASION SITUATIONS:

Gravel pit & Quarry Industry



- Limestone
- Basalt
- Gneiss
- Granite
- Extreme Abrasive Gravel
- Greywacke
- Dolomite
- ...

Recycling industry



- Building material
- Road construction material
- Slag (steel industry, copper industry, waste incineration, electric steel work,...)
- Glass recycling

- A complete range of crushing solutions
- On-site technical support
- Trials & testing on your customer site
- Analyses of crushed material
- 100% in-house, know-how, expertise and development

The information and data in this data sheet are accurate to the best of our knowledge. They are intended for general information only. Applications as suggested are described only to help readers make their own assessment. They are neither guarantees nor to be construed as express or implied warranties of suitability for these or other applications.

Process optimization products and services
for high abrasion extracting industries



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