

£3 Technology for high demanding steel sinter crushers



Optimum solution for crushers working at extreme conditions of temperature and abrasion. Ideal for

- Extending service life of crusher parts by a factor 3
- Ensuring higher crusher productivity by preserving teeth shape
- Reducing maintenance costs and plant shutdowns

£3 is exclusively provided as a **Castolin Service**



SERVICES



Steel crusher wear issue

In steel plants, equipment that processes sinter at very high temperature is exposed to severe wear conditions. In particular, sinter crusher that has to ensure large throughput must be wear-protected in order to avoid expensive maintenance and frequent plant shutdowns. Maintenance Managers agree that standard solutions available on the market are not sufficient for their needs; rotors and breaker bars must regularly be replaced with new ones.

The insufficient wear resistance of the standard solutions is due to three main factors:

- the sinter **high temperature** that reduces the hardfacing characteristics,
- the sinter **abrasive nature** that wears-out the parts,
- the **high impacts** that destroy brittle hardfacings.

Unique £3 technology

£3 is a legally protected solution specifically developed for improving steel sinter crusher productivity and service life. This solution has been originated after 4 years of tests made in laboratory as well as on real working conditions. It is based on a unique Castolin high temperature wear resistant alloy that offer extreme resistance even when impact and abrasion are present.

£3 is particularly suitable for protecting the most critical sinter crusher parts such as the rotor discs, teeth and breaker bars.



£3 compared to other solutions

On-site tests have shown that £3 outperform standard solutions by at least a factor 3. Moreover in addition to increase service life, the geometrical shape of the parts is preserved which ensures better crusher efficiency compared to standard solutions.



Standard solution after 10 months
Rotor is completely worn-out



£3 solution after 37 months
Rotor is still in good shape



£3 solution after 37 months
Tooth shape is preserved

£3 advantages

In addition to increase part service life, £3 allows you:

- to **reduce** frequent sinter crusher **maintenance and plant shutdowns**,
- to **keep higher crusher productivity** by preserving teeth shape,
- to **reduce the purchasing costs** of new parts,
- to **avoid using complex water cooled breaker bars**.

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£3 is provided only by Castolin Services workshop.

Your sales representative will be happy to explain this concept more in detail while our engineers can design a very specific for your own needs.

Do not hesitate to contact us .

