

# £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 .

