E3 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

E3 is exclusively provided as a CastoLab Service
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 e³ technology

e³ 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.

e³ is particularly suitable for protecting the most critical sinter crusher parts such as the rotor discs, teeth and breaker bars.

e³ compared to other solutions

On-site tests have shown that e³ 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.

e³ advantages

In addition to increase part service life, e³ 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.

e³ is exclusively provided by CastoLab® Services

e³ is provided only by CastoLab® 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.