



## **Mining Coals**

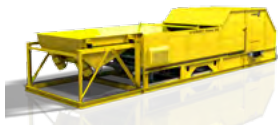
**Entend your mineral mine life**

- > remove waste material, reduce concentrator load
- > increase yield and improve process efficiency

# Minerals

## For every need there is a creative solution with STEINERT

Minerals or mining sector – wherever you look: material yield & equipment protection are the magic words. From traditional magnetic separation technology, to the latest in sensor sorting – STEINERT sorting systems don't just transform process engineering, they also make it more precise and therefore - more efficient. At the same time mineral processing companies continually face more challenges. It's not just about developing new deposits but also about processing efficiency – particularly the leaner ones. Crucial to processing machines is their availability, and as part of your larger operation they will need to consume less energy and water. All in all these are challenges which can be met using advanced, perfectly integrated technology. This is exactly what STEINERT provides.



### STEINERT ISS

The STEINERT ISS induction sorting system is suitable for all metalliferous ores eg: nickel, gold and antimony.



### STEINERT XSS

The XSS X-Ray sorting system greatly increases the range of possibilities for sorting mixed materials. The XSS® T (transmission) “sees” through the materials, recognising different material densities, components containing halogens, and organic components. Also distinguishes between metalliferous ores.



### STEINERT KSS

Shape recognition is an important criterion when it comes to manual sorting on the conveyor belt. The STEINERT KSS now makes shape recognition fully automatic and usable as an additional separating parameter. Combined with a colour camera the ideal choice for talc, quartz, gemstones and platinum group.



### Suspension Magnet

Suspension Magnets can be used to remove unwanted tramp iron such as screws, nuts and rock bolt from coal, coke, ore and other minerals, even at extremely fast belt speeds (fffi 7.5 m/s), great working distances up to 1 m and high dumping heights.



### STEINERT WDS

STEINERT's permanent magnet wet drum separators have been beneficiating iron ore and heavy media successfully for decades. In iron ore processing, the wet drum separator separates magnetic iron ore such as magnetite from waste rock – at P80's commonly down to 28 µm. Steinert has continued to develop several aspects of the WDS. Heavy media recovery – magnetite or ferrosilicon – is near on 100 % efficient.

### Metal Detectors

Durability – coil units are made of monolithic, high-impact resistant fibreglass (reinforced) to withstand damage even by frost chunks or other types of over-capacity loads. The rigid framing and other system components are made to stand up under the harshest conditions.

