

binder+cö

minexx

The highest quality in mineral sorting

we process the future



Processing Technology



MINERAL SORTING



Sensor-based sorting paves the way to considerable economic improvements in the processing of industrial minerals and raw materials: deposits can be used longer, the efficiency of the processing plant and its productivity increase and product quality improves.

FUNCTION AND TECHNOLOGY

MINEXX is a two-way system and is fed with rock particles with a particle size of 5 - 130 mm. The minerals flow via a chute with a 60° inclination. The feed material separates due to acceleration. With customised lighting systems and high-resolution sensors, MINEXX recognises colours or alternatively the degrees of whiteness, the shapes and textures of minerals, as well as the material-specific characteristics.





FUNCTION AND TECHNOLOGY



The system is equipped with the right number of valves for each individual application case, which is based on the particle size range of the feed material. The cameras for colour recognition have a resolution that is less than 0.5 x 0.5 mm per pixel. Controllable, long-life LED lines with patented diffusion technology are used as lighting to ensure optimum illumination of the material. The computer classifies the particles with sophisticated algorithms and calculates the optimum valve control parameters. The sorting valves, which were developed by Binder+Co, are mounted on the blow-off rails and have an extremely short response time and a very high impelling force. They are triggered at the right time and place and separate the good or bad product from the material stream. The automatic cleaning and an accurate white balance guarantee constant operating conditions and sorting quality. Up to eight MINEXX systems can be configured using a touch-screen PC, and their operating states can be displayed.

MAINTENANCE AND OPERATION

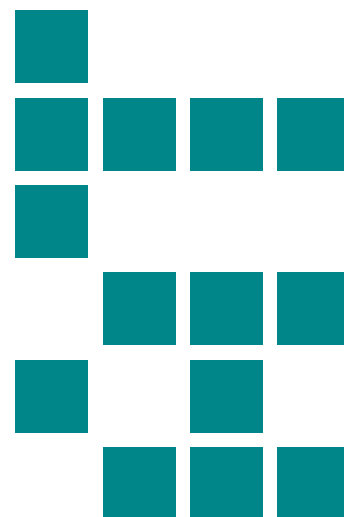
MINEXX is designed using a modular construction so the machine can be easily integrated into existing systems. MINEXX is easily accessible for maintenance and functional checks. The valve rails, camera boxes and lighting are on swivel mounts. MINEXX features remote maintenance via modem and data line. Its robust design withstands extreme conditions in the processing plants such as high levels of exposure to dust and moisture.

- Processing Technology
- Environmental Technology
- Bagging Technology

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Binder+Co has been a worldwide specialist for decades in sorting transparent and non-transparent bulk materials. The sensor-based sorting technology of Binder+Co ranges from stand-alone machines to complete turnkey systems. Our customers' wishes are our highest priority. Only an optimum system design and correct conditioning of the feed material will give our customers an economic and technological edge.



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