

Reduction of energy required when processing bulk materials

When taking a look at the aspect „Application of energy during engineering processes“, in connection with systems engineering, this has to be approached from various angles. A change in chemical or physical characteristics, which is a necessary part of value-adding design of products, is often effected by means of a mechanical or thermal action. Energy is added during the process. Application of energy is necessary.

When designing a system for the processing of bulk materials, the equipment manufacturer has the possibility to select machines with low energy demand with expert selection of layout and process design without affecting the result adversely. There is plenty of scope of action for the designing of energy-efficient production processes!



Gericke continuous mixer
GCM 800 ECD and 1200 ECD
for energy efficient production processes

When handling mixing processes, Gericke often decides on a continuous process design as this means that logistics can be simplified and drive power per kg of processed product is minimised. The GCM line (Gericke Continuous Mixer) processes up to 12'000 l/h of free flowing bulk material in a mixer with a drive power of only 0.75 -2.95 kW. In addition to this, the GCM mixers can be operated in a very flexible manner with varying throughput capacities so that the same system can be used for various processes. So, not only are we talking about energy effective production but also about high cost-effectiveness thanks to universal application!

Gericke handle the pneumatic conveying of raw materials as well as the feeding and mixing processes themselves and can therefore check optimal conformity of the system components. Gericke has been a specialist for systems used when processing bulk materials for 117 years.

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