

Frequency converter for bucket elevators



Simatek Bulk Systems, Hoeng, Denmark, has introduced a frequency converter for bucket elevators. This electronic accessory allows users to choose the desired chain speed within the capabilities of the elevator. The chain speed is adjusted so that the buckets will be filled optimally, allowing the most efficient use of elevator capacity to be achieved. As well as ensuring soft acceleration and deceleration, the frequency converter also safeguards against the elevator running faster than needed, avoiding unnecessary stress and wear to component parts.

The software of the frequency converter constantly monitors power consumption and if a malfunction occurs which causes increased energy consumption, the elevator will immediately be brought to a stop. The software also monitors slowly increasing power consumption caused by wear or product accumulation, again stopping the elevator when a set point is reached. The device provides for two modes of operation: for elevators which are fed with a continuous constant product flow; and for elevators which are fed with varying product flow, or if there is a risk of the elevator occasionally running the buffer bin empty of product. The frequency converter will be featured on the Simatek Bulk Systems stand at the forthcoming Victam exhibition. www.simatek-bulk.dk

Frequency converter from Simatek Bulk Systems