



LIME KILN

INCLINED CONVEYOR





Application

Inclined conveyor with the basket and winch

The inclined conveyor is designed for vertical transport of the feed material. It is used to load the lime kiln with a mixture. The track of the conveyor runs from the base of the kiln to the top section. In the upper part, the motion trajectory changes the angle in order to unload the mixture into the throat of the upper closure in a controlled way. The bucket, filled with material, moves along the running track using two independently operating ropes. This prevents the bucket from falling due to a rope breakage.

An electrically driven winch with two drums, on which the ropes are wound, is responsible for movement of the bucket. The standard equipment of the lift is a safety brake. The bucket moves along the track at two speeds, lower at the bottom and the top of the kiln and higher in the middle of the inclined conveyor. Both the winch and the conveyor are equipped with sensors indicating the position of the bucket and the tension of the rope. Additionally, safety sensors are installed to inform about exceeding the limits of bucket position.

