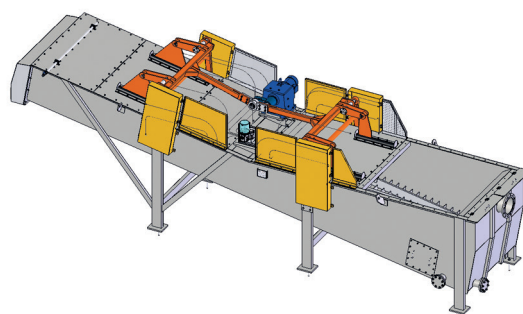


GRIT SEPARATOR





Application

The grit separator is used to separate fine solid fractions from mixtures.

The granulation of solid particles should be within 0.5-5mm.

The grit separator is used, among other things, for separating grits (ungraded lime particles) from milk of lime.

Design and principles of operation

The mixture to be segregated is fed to the separator directly from the lime drum housing to the trough of the separator. The mixture fills the trough volume up to the upper edge of the baffle. The sedimentation process follows. Pollutants in the form of heavy solid particles (grit, sand, coke breeze, unburnt stone, etc.) as a heavier mixture than the liquid fall down and settle at the bottom of the trough.

This sludge is removed from the trough with a ladder scraper. A ladder slider driven by a gearmotor through the arms of the drive unit performs a movement described by a closed flattened curve resembling an ellipse or an oval. As a result, the ladder scraper performs a reciprocating motion. Moving up the ladder the ladder moves upward the ladder's scraper moves near the bottom down extremely high above it. In this way, the sludge is moved in a stepwise manner towards the upper outlet from the trough.

Technical specification

SIZE		500	625	750	900	1100	1600	3200 *
WIDTH OF THE TROUGH	mm	500	625	750	900	1100	1600	3200
CAPACITY	m ³	0,7	1,27	1,52	1,83	3,4	5,0	8,4
POWER	kW	1,5	1,5	2,2	2,2	2,2	2,2	2,2
NUMBER OF SCRAPER'S STROKES	n/min	6,5 ÷ 7						
WEIGHT	kg	1730	1992	2590	3220	4810	5730	12580

* Sand catcher