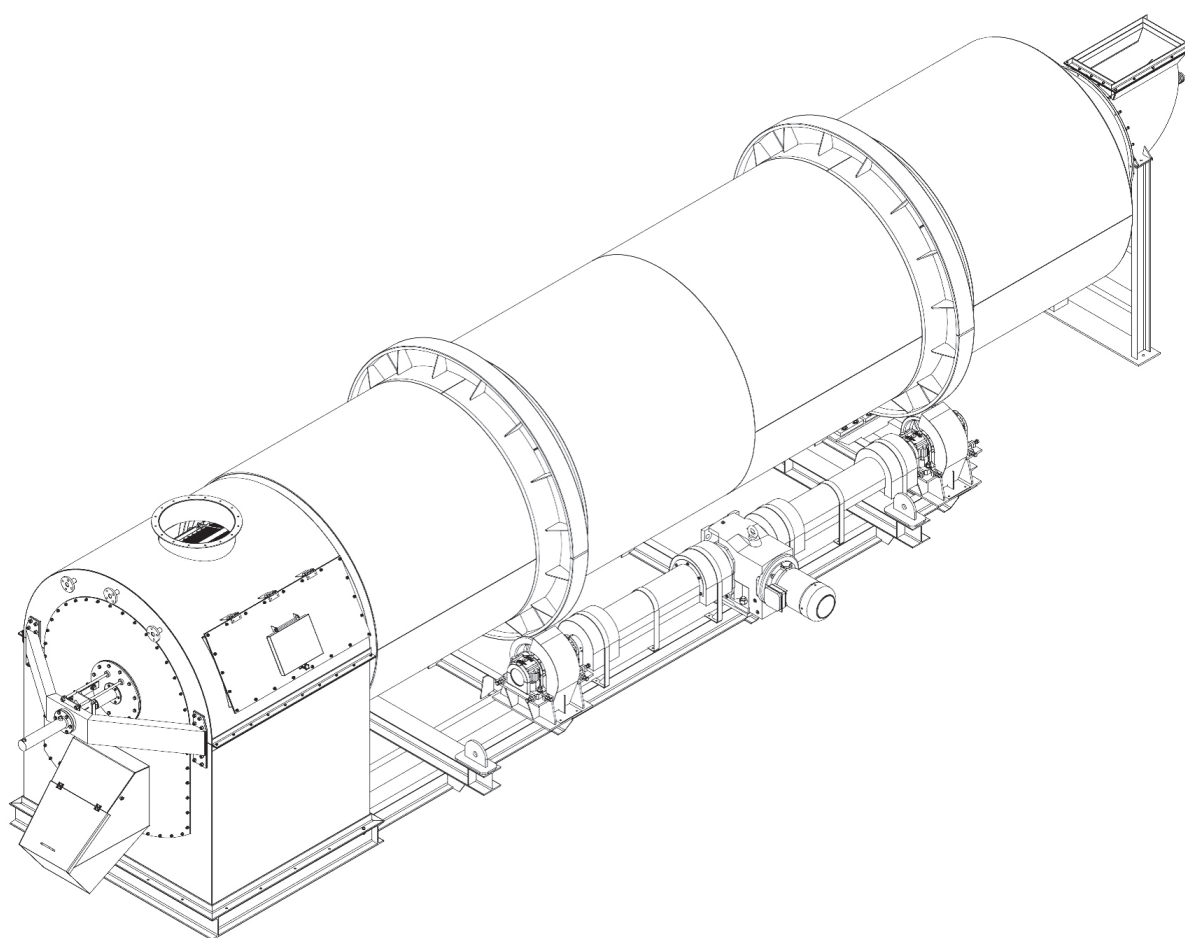


SEPARATING SLAKER



Purpose

Separating slaker (some times called the slurry or detention slaker) is designed for lime slaking and is responsible for impurities and grit from resultant calcium hydroxide slurry separation as well as for creating of pressure head for the lime milk pumps. Main advantage of the separating slaker is the ability to be fitted directly under the lime kiln thus under lime offloading sluice

Description of operation

The slaking drum is a main element of the slaker, where the hydration process takes place. Quicklime is being feed via hopper and thanks to the auger is delivered to the drum. Slaking medium is delivered to drum by piping system. Drum itself is fitted with special transport means which are responsible for slurry outflow toward sieves.

Fine parts are extracted together with lime milk in continuous manner, via:

- plate sieve 1 (15 mm slots)
- sit sieve 2 (3 mm slots)
- under-burned pieces ejector (hydraulic actuator or manual)
- grit separating trough, which is connected to housing of the lower discharging chamber (catching the sand grains below 3 mm in size)

The scavenger (electrically driven) removes the sediment from lime milk towards grit separating trough. To facilitate the process of segregation the water is sprinkled to the grit separator. Purified lime milk flows down to the oval mixer (rotor is powered by drives) From the oval mixer the lime milk is pumped out for further treatment via nozzle and excess – an overflow nozzle.

Vapor from slaker is removed by the gravity chimney (chimney and fans are not part of the standard deliveries) Sieves are rinsed by water which is supplied by water installation.

Technical features

TYPE	MICK	
	60 t/d	90 t/d
Capacity CaO	60 t/d	90 t/d
Drum diameter	1800 mm	2000 mm
Power of drum	5,5 kW	5,5 kW
Power of mixer	2,2x2 kW	2,2x2 kW
Power of separator	3,12 kW	4,82 kW
Power of drive	7,5 kW	7,5 kW
Motor voltage	400/690	400/690
Drum capacity	3 m ³	4,5 m ³
Mixer capacity	6 m ³	8,4 m ³
Grit separator capacity	3,12 m ³	4,82 m ³
Weight	16 t	20 t

Dimensions

