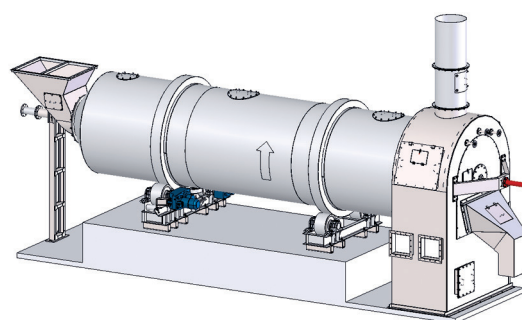




## SLAKING DRUM





## Application

Slaking drum (MICK) is designed for continuous or cyclic production of calcium hydroxide called milk of lime or lime milk. This type of product is commonly used in the fertilizer industry, chemical industry, as well as for cleaning flue gases from sulphur oxides. In addition, slaking drums can be found in every sugar factory. It is used to produce lime milk, which is then used to purify beet juice.

## Design and principles of operation

Slaking drum is a cylindrical tank with a horizontal rotation axis. Rotary movement is carried out by an electric motor. Depending on the customer's preferences, we deliver the equipment driven by two motors through drive rollers and friction gears or with one drive and a gearbox. The size of the drum depends on the expected capacity but also from the quality of the input material. In the feeding section we optionally install a dry loading chamber to prevent emission of contamination during the loading phase. Inside the drum there are blades installed responsible for movement of the lime towards the outlet.

Lime is fed through the hopper. The slaking fluid enters the drum via the inlet manifold. Quicklime in contact with water is processed, resulting in calcium hydroxide ( $\text{Ca(OH)}_2$ ) and heat generation. There are sieves in the discharge section. Fine solid particles of material are transported with the lime milk in a through an internal screen, an external slotted screen and an unburnt material discharge system. The discharge system is opened cyclically and the unburned material is thrown onto the sieves, where larger wastes and grit are separated from the lime milk. In order to maintain an appropriate degree of segregation, the sieves are rinsed with water. Vapours from the MICK are removed through the outlet above the sieves.

## Technical specification

CAPACITY	t/d	40	60	90	135	200
DIAMETER OF THE DRUM	mm	1500	1800	2000	2200	2400
INSTALLED POWER	kW	4,0	5,5	7,5	11,0	18,5
DRUM CAPACITY	m <sup>3</sup>	2	3	4,5	6,75	10,1
WEIGHT	t	14	16	20	24,5	29