Roll Crusher - 250.3

Overview

The Bauermeister 250.3 Roll Crusher is the most technologically advanced Roll Crusher especially suitable for the super absorbent polymer industry. The 250.3 is second to none with high throughput and maximum control and flexibility.

Computer controlled gap adjustment allows the most complete monitoring and control of all parameters. Welded steel modular design allows stacking individual pairs of rolls resulting in two-roll, four-roll and six-roll configurations.

The creation of undesirable fine particles is reduced by subjecting the product to a combined shearing and pressing action. The narrow particle size distribution is achieved by controlling a combination of variables including roll speed, roll gap, differential speed, feed rate and roll surface design.

Type ZWR 250.3 x 1500 = Two-Roll Crusher
Type VWR 250.3 x 1500 = Four-Roll Crusher
Type SWR 250.3 x 1500 = Six-Roll Crusher

Design:

- Product-contacted parts of stainless steel with especially smooth surface
- Inspection flaps for each pair of rolls arranged at the front and at the rear side of the machine as product chamber covers
- Dust-tight crushing chamber
- Direct drive by means of joint shaft and spur gear

Equipment:
Electric switch cabinet, PLC controlled, Product feeding by dosing chute, or roll feeder, aspiration connection for de-dusting the inside of the crusher chamber.

Roll design in different material qualities, adapted to the product to be crushed:

- Corrugated rolls with the various corrugation forms and sizes, depending on the specific product
- Ring cut rolls with radial corrugations of different forms and sizes
- Smooth rolls
- Rolls with beaters

Infinite roll gap adjustment by electric operation, automatic zero adjustment of the roll gap, considering the temperature increase during the warm up phase of the crusher, consideration of wear and tear at the roll surfaces during the zero adjustment, automatic roll gap opening during the starting phase

Working characteristics:

- Continuous operation
- Narrow particle size spectrum of the final product with a minimum portion of dust

Application:
Crushing of soft, brittle to toughly hard products.

Options

- Manual roll gap adjustment instead of automatic
- Device for potential compensation
- Permanent magnetic separator
- Temperature control of the roll bearing housings
- Automatic re-lubrication device for the roll bearing assemblies
- Vibration control device
- Product feeding by a roll feeding device

BAUERMEISTER
901-363-0921 • Fax 901-794-9679
5100 Poplar Ave. • Suite 607 • Memphis, TN 38137
www.bauermeisterusa.com • info@bauermeisterusa.com