

# CE 245 Ball mill



Many processes used in the recycling of waste are favoured by a small particle size. Waste usually has to be comminuted first for this reason. Various techniques such as ball mills are used to do this.



Large-scale ball mill in waste management

Our CE 245 experimental unit allows you to teach the fundamentals of this comminution process in practice. There are three different drums available. All drums have transparent faces. This means you can observe the comminution process and the motion states inside the drum which are characteristic of ball mills.

The speed of the ball mill is continuously adjustable. Speed and power consumption of the drive motor are displayed digitally. This allows you to compare the theoretical demand with the actual power demand. You can adjust the desired mill time using a timer.


The instructional material sets out the fundamentals of this process in detail. Example experiments are clearly described and evaluated.



We recommend our CE 264 Screening Machine for analysis of the experiments.

About the product:



 Learning objectives
<ul style="list-style-type: none"> <li>■ cascade motion</li> <li>■ cataract motion</li> <li>■ determining the critical speed</li> <li>■ comparison of theoretical and actual power demand</li> <li>■ influence of the following parameters on the degree of comminution:               <ul style="list-style-type: none"> <li>▶ mill time</li> <li>▶ speed</li> <li>▶ ball diameter</li> <li>▶ ball filling</li> <li>▶ material to be milled</li> </ul> </li> </ul>