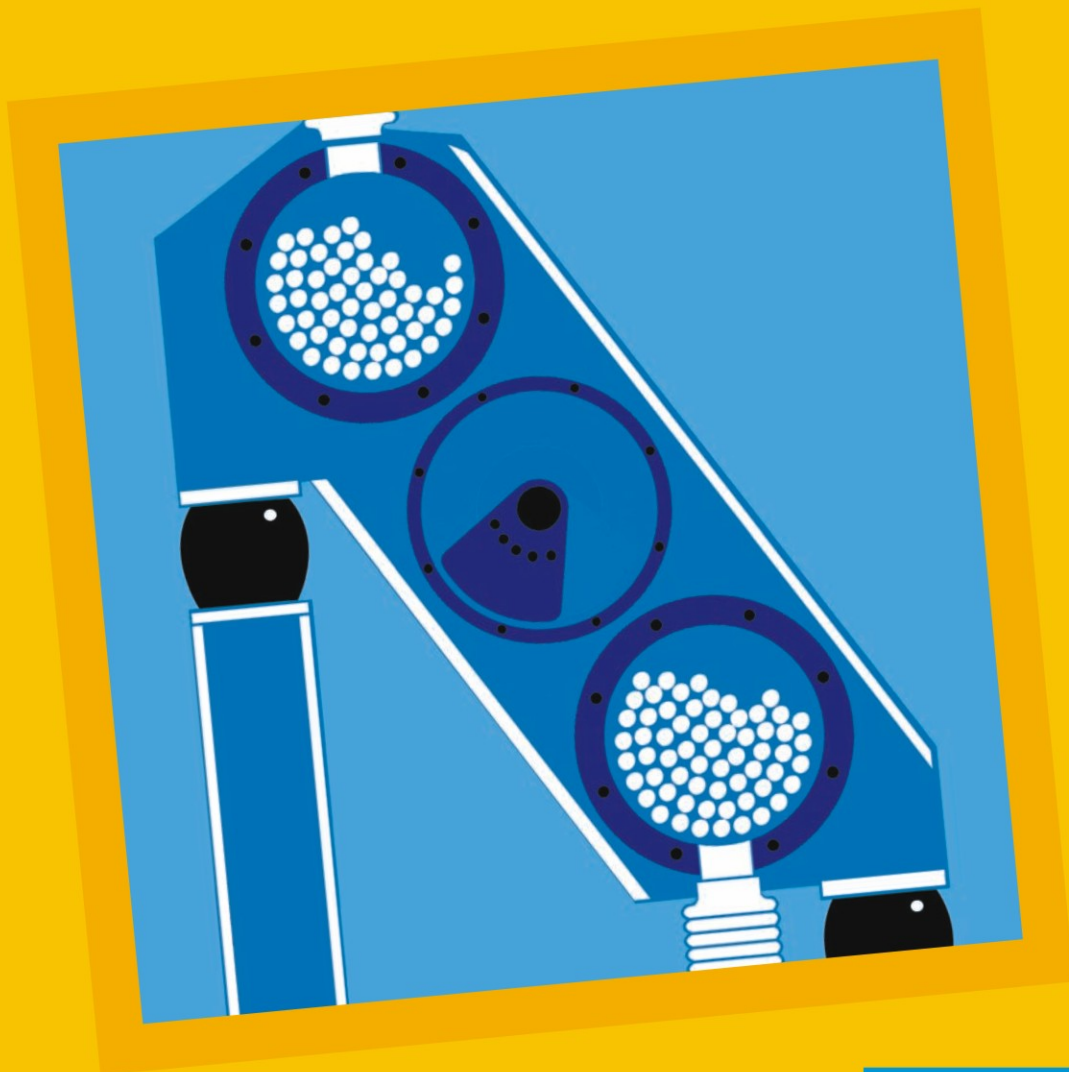


# Twin- Tube Vibrating Mill



Design by : [www.corefocus.in](http://www.corefocus.in)



**AMBICA**  
CRUSHTECH PVT. LTD.

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#### **FIELDS OF APPLICATION**

Vibrating Mills are used for grinding of almost all materials in the processing industry, from medium-sized lumps up to finest grains. The particular fields of application are coal, chemicals, ceramics and pit and quarry industries, including their subgroups.

#### **FEED MATERIALS**

Lignite, hard coal, ash, coke, charcoal, dolomite, marble, silica sand, limestone, bentonite, lime, gypsum, puzzolan, bauxite, copper granules, iron oxide, ferrosilicon, magnesium oxide, arsenide, aluminium oxide, silicon carbonate, zirconium, fireclay, corundum and similar products.



Twin-Tube Vibrating Mill with drive and counter-vibration frame, type 4210/04-25



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## MODE OF OPERATION

Twin- and Three-Tube Vibrating Mills are driven by an unbalanced drive. The entire filling of the grinding cylinders, which comprises the grinding media and the feed material, constantly receives impulses from the circular vibrations in the body of the mill. The grinding action itself is produced by the rotation of the grinding media in opposite direction towards the driving rotation and by continuous head-on collisions of the grinding media. The residence time of the material contained in the grinding cylinders is determined by the quantity of the flowing feed material. The residence time can also be influenced by using damming devices. The feed material passes through the grinding cylinders in a helical curve and slides down from the inflow to the outflow. The high degree of fineness achieved is the result of this long grinding procedure. Continuous feeding is carried out by vibrating feeders, rotary valves or conveyor screws. The product is subsequently conveyed either pneumatically or mechanically.

## SPECIAL FEATURES

The driving motor is connected to the drive shaft of the mill via a propeller shaft. The centrifugal weights on the drive shaft are set in a way, that the vibration circuit diameter necessary for optimum grinding results is achieved. The lubricated roller bearings are protected by a special labyrinth sealing to ensure easy maintenance. The complete vibration system is positioned on spring elements, or alternatively on rubber buffers. If the transfer of vibrating power to the base of the mill has to be reduced, the entire Vibrating Mill and its drive will be put on an additional counter-vibration frame. The grinding cylinders are filled to about 60–70 %. Balls, clypebs and grinding rods are used as grinding media. If the grinding is iron-free, balls or clypebs of aluminium oxide are used. The grinding media are held up at the outflow heads by separating discs to ensure that only the ground material can flow out. Upon request, the grinding tubes are available in welded or bolted design. To protect the grinding tubes, easily-replaceable cylinders made of highly wear-resistant special steel are inserted. Owing to the location of the grinding tubes, one above the other in a slanting position, different operating alternatives are provided. The Three-Tube Vibrating Mill was especially designed for obtaining even higher capacities. It is distinguished by a low power consumption.

## ADVANTAGES

- high and constant capacity
- high availability
- long lifetime
- easy replacement of wear and spare parts
- wide range of application
- high reduction ratio

## SCOPE OF APPLICATION

- feed size: up to approx. 16 mm
- product size: up to < 25 µm  
depending on the feed material and its size
- capacity: up to 20 t/h
- reduction ratio: up to 1:30
- required power: up to 132 kW



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