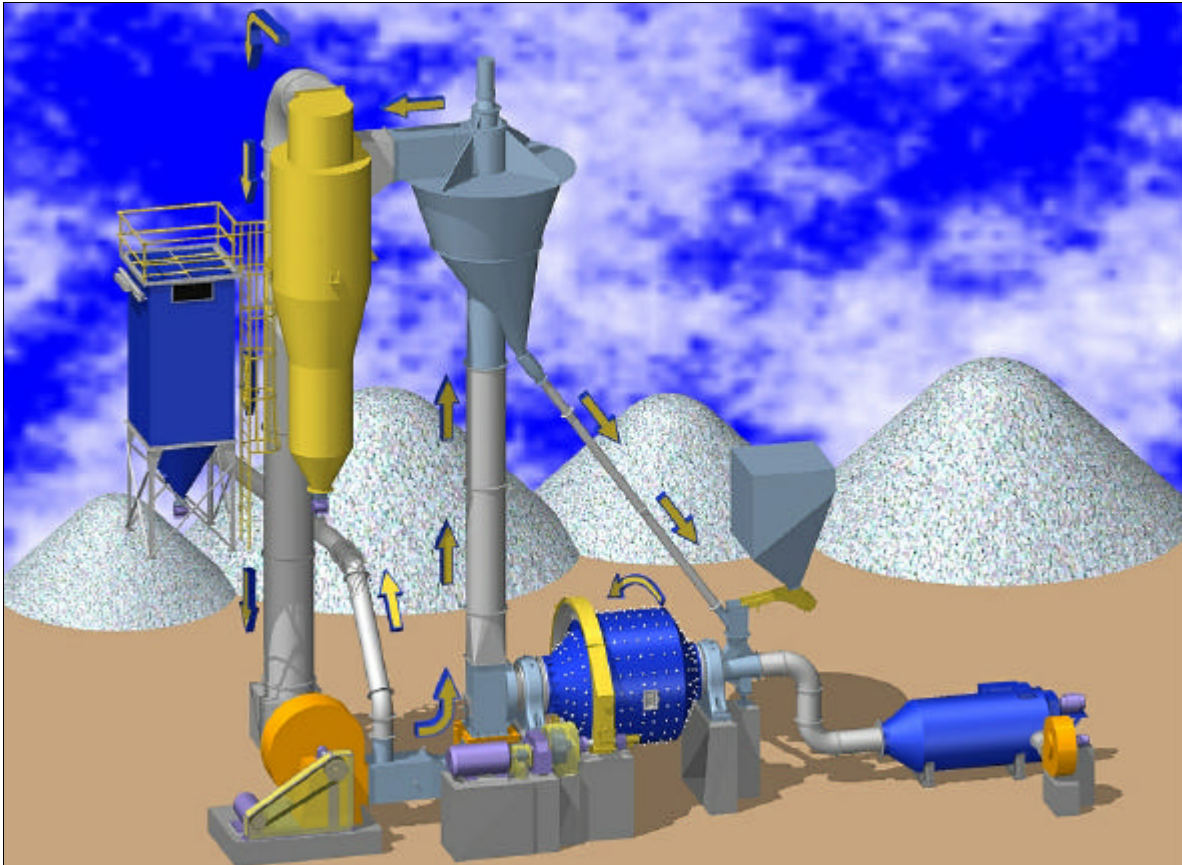
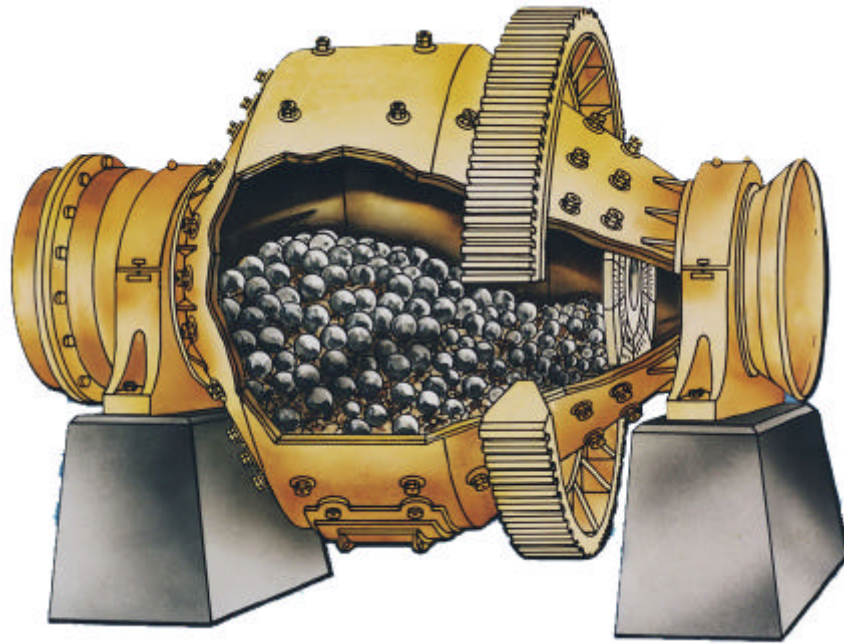


Conical Ball Mill





Proven Experience

Metso Minerals draws from more than 100 years of mill design and manufacturing expertise and nine decades of successful Conical Mill applications with over 2,000 Conical Mills installed worldwide.

The Conical Mill is most efficient when the maximum feed size is less than 2" and iron contamination is not a factor. These mills are sized from 2 HP to 450 HP for wet grinding and from 2 HP to 500 HP for dry grinding.

Structural Advantages

The structure advantages of a cone are well known. The truss is the strongest type of structure. The Conical Mill is built on this structurally sound principle.

A sphere has the greatest volume for a given surface area of any solid. The Conical Mill approaches a sphere in shape, which means...

- Minimum shell surface per unit of grinding volume
- Less liner weight per unit of mill volume with correspondingly reduced liner wear per ton of ore ground.
- Reduced dead weight load of the mill
- Less bearing friction loss
- Lower overall power consumption

Saves Grinding Power

Particles of different sizes, irrespective of their specific gravity, when revolved in a cone will classify themselves with the largest pieces at the point of greatest diameter. This classifying action within the mill, which is produced by the revolving cones, portions the energy available to the work required. This lowers grinding power. Classification and circulation within the mill is the principle of operation for the Conical Mill.

Maximum Utilization of Media

In a typical cylindrical mill, it has been proven that most of the work is accomplished in only a portion of the mill cylinder length and the end corners are ineffective. We have shortened the cylinder and removed the "dead corners". The grinding media is effective throughout the length of the mill. This fact is emphasized by observing the lining wear patterns in cylindrical and conical mills. The "dead corners" of a cylindrical mill show less wear than the center of the mill. The Conical Mill shows more even wear both in the cylinder and cones.

This mill is competitively priced and will produce the same product as any cylindrical mill of the same connected horsepower for less cost per ton.

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