

Product Name :

Ball Mill

Product Code :

ALABS-A209-003

**Description :****Ball Mill**

Ball Mills are horizontal rotating cylindrical steel chamber of half filled with steel balls. The size reduction is accomplished by the impact of balls as they fall back after being lifted by the baffles fitted in the rotating chamber.

Ball Mill is fitted on a sturdy MS frame. Charging of balls and material is done by the means of opening provided in the chamber. The chamber is turning about the horizontal axis through a reduction gearbox and three step pulley connected to a motor. The stepped pulley arrangement is done for moving the Ball Mill at three different speeds. A revolution counter is provided to find out the number of turns. Special arrangement is done to free the Ball Mill from reduction gearbox for charging and discharging the material.

Experimentation:

- To study effect of RPM on the power consumption of a Ball Mill.
- To determine the efficiency of a Ball Mill for grinding a material of known

Utilities Required :

- Raw Material for Feed.
- Electric Supply : Single phase, 220 V AC, 1 kW.
- Set of Sieves with Sieve Shaker for analysis.
- Floor area 1.5 x 1m
- Steel Balls

Technical Details :

Material MS Dia 275mm, Length 350mm. Thickness 5 mm.

Suitable size

Feed Size (approx.)

Product Size (approx.)

Drive IP, variable speed motor and Drive, coupled to Reduction Gearbox.

Material Stainless Steel of suitable size.

Rotational Speed

Control Panel Comprises

of :

Electronic Energy Meter

MCB Overload Protection

Instruction Manual. Instruction manual will be provided along with the Apparatus

The set-up is fitted with required guards.

The whole set-up is well designed and arranged in a good quality painted structure.



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