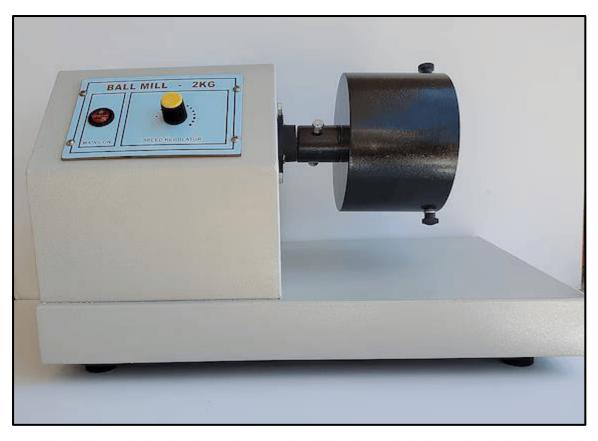
1. Ball Mill



A Ball Mill is a grinding device used to crush and blend materials for various industries, including pharmaceuticals, mining, cement, and chemicals. It works by rotating a cylindrical chamber filled with grinding media (balls) to reduce material size through impact and friction.

Key Features:

- Cylindrical chamber made of metal or ceramic.
- Grinding media (steel, ceramic, or rubber balls).
- Rotates on its axis at a controlled speed.
- Can operate in dry or wet conditions.

Working Principle:

- 1. The mill rotates, causing the balls to lift and then fall onto the material.
- 2. Impact and friction break down the material into finer particles.
- 3. The final particle size depends on the rotation speed, duration, and ball size.

Applications:

- Powder preparation in pharmaceuticals.
- Ore processing in mining.
- Paint, pigments, and ceramic production.