



Department of Materials Science and Engineering

POWDER METALLURGY LABORATORY

Non-analytical instruments





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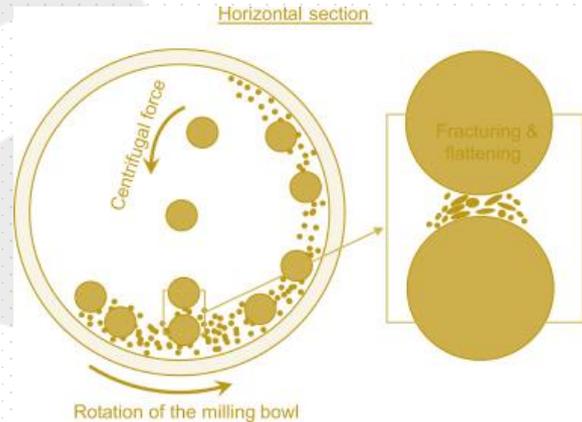
NON- ANALYTICAL INSTRUMENTS



Laboratory mills

Introduction

Lab mills are essential tools in laboratory settings, particularly in sample preparation. Mills are used for wet or dry grinding, mixing and blending for a wide variety of materials like ores, chemicals, paints, ceramics, glass, etc. By reducing the particle size of materials, mills and grinders can help researchers to homogenize samples and achieve consistency and accuracy in testing. Nowadays, Lab mills are an inseparable part of research settings, such as chemistry, food analysis, geological exploration, quality control, and life science. Such units can be used to prepare representative samples (e.g., homogeneous powder) of different materials, including wet, dry, and fibrous products. This lab is equipped with three mills which their specifications will be introduced.



Schematic of ball milling

Device: Laboratory mill

Manufacturer: *MANUFACTURED IN-HOUSE*



Technical specifications

Number of stations	4
Max rotation speed	500 rpm

Device: Laboratory mill

Manufacturer: *PISHTAZ TOLO SEPAHAN*



Technical specifications

Number of stations	2
Max rotation speed	500 rpm

Device: Roll jar mill

Manufacturer: *MANUFACTURED IN-HOUSE*

