



## JAIVIK SIZE REDUCTION CUTTER MILL (JVSRC)

### Introduction

Cutter mill is a size reduction equipment consisting of a series of uniformly spaced knives. It reduces friable, semi-friable, fibrous, semi-hard and hard materials into controlled particle sizes at high rates with minimum fines. It performs like a knife cutter, while handling a plethora of diversified materials.

A Cutter Mill is the best option of size reduction when impaction, attrition, or compaction type milling is not effective especially for tough, fibrous, or resilient materials. We offer equipment for both dry and wet phases, although the milling process is different for each. Cutter Mill functions Typical applications span a broad range of chemicals,

### Working Principle

Cutter mill is a size reduction equipment consisting of a series of uniformly spaced knives attached to a horizontal rotor (rotating knives) which act against a series of stationary knives attached to the mill casing. The bottom of the mill has a screen attached to control the residence time of the particles inside the mill head.

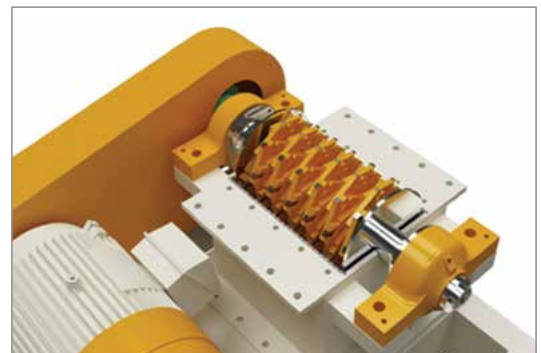
Complete Mill body is machined with accuracy to house a heavy duty rotor mounted with plates and tipped with tungsten carbide. Necessary mechanism is provided for easy and rigid fixing of desired perforated sieve at the bottom of the cutter through which material passes after cutting.

Size reduction process involves successive mechanical shearing of the feed material with the help of a sharp knife. Cutter mills produce coarse particles from

1. Dried granulations before tableting and
2. Fibrous crude medicinal/roots, barks prior to extraction

#### Particles size are determined by

- a. Rotor size
- b. The gap between the two (2) sets of knives
- c. Screen/sieve



## Design Features :

- ▶ Rapid sieve and knife changeover
- ▶ Quick and easy to clean
- ▶ Performance – enhancing diagonal cutting action
- ▶ No need to adjust the rotor knife
- ▶ Ideal granulate quality with similar grain characteristics
- ▶ Outer bearing assembly protected from dust



MODEL	MOTOR	ROTOR LENGTH	NO. OF CUTTER BLADES	RPM
JVSRC - 100	5 to 10 HP	256 mm	20 no.s	300-1500
JVSRC - 300	10 to 30 HP	397 mm	30 no.s	300-1500
JVSRC - 400	20 to 40 HP	778 mm	60 no.s	300-1500
JVSRC - 500	30 to 50 HP	1235 mm	96 no.s	300-1500
JVSRC - 600	40 to 60 HP	1540 mm	120 no.s	300-1500
JVSRC - 750	50 to 75 HP	1845 mm	144 no.s	300-1500

## Applications

Jaivik cutter mill is most often used for cutting corn, spices, roots, dried herbs, Tea, Peppercorn, Nuts, Bark, Plastic pellets, Potatoes and other tubers, Wood chips and other soft to middle-hard materials in food, chemical and pharmaceutical industry into accurately controlled size or before fine grinding.

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