

# Air Classifying Mills



The Prater Air Classifying Mill (CLM) offers the combination of two-stage closed circuit grinding with internal air classification. The unique capabilities of the CLM Mill out perform single-pass mills when handling difficult to grind products and those products requiring a narrow particle distribution. The large access door on these mills allows for quick inspection and/or cleaning of the main rotor as well as the classifier rotor.

There are three stages taken when processing material through a Prater Air Classifying Mill. The initial grinding stage is similar to what is accomplished in the M Series Mills; however, a secondary inlet provides additional air for the second stage internal air classifier. This additional air also adds an element of cooling to the material being processed. Oversized particles that are larger than specified are rejected by the classifier and are directed to the third stage, which is a separate part of the grinding rotor. This recycled material is ground again, then redirected to the classifier, allowing only properly sized product to exit the mill.

## FEATURES

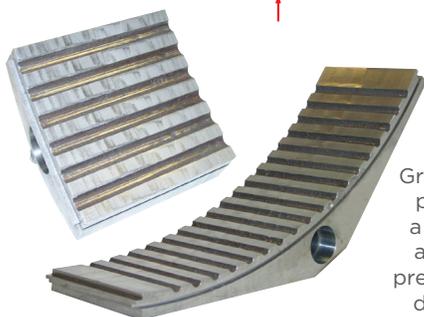
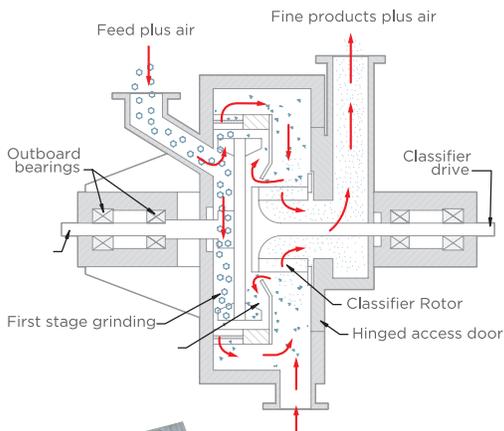
- Standard safety devices
- Replaceable grinding blades
- Grinding jaws
- Controlled particle distribution
- Simple maintenance
- Reversible rotor
- Sanitary construction available



All Prater Air Classifying Mills come with an automatic door interlock. This device prevents access to mill internals during operation.

## TYPICAL PRODUCTS

- Soya Protein
- Cornstarch
- Dextrose
- Sugar
- Pigment
- Gypsum
- Flour
- Gelatin
- Limestone
- Urea
- Soy
- Whole Grain



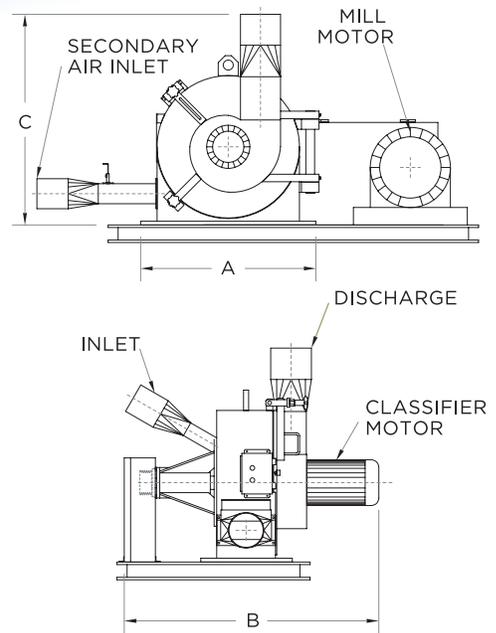
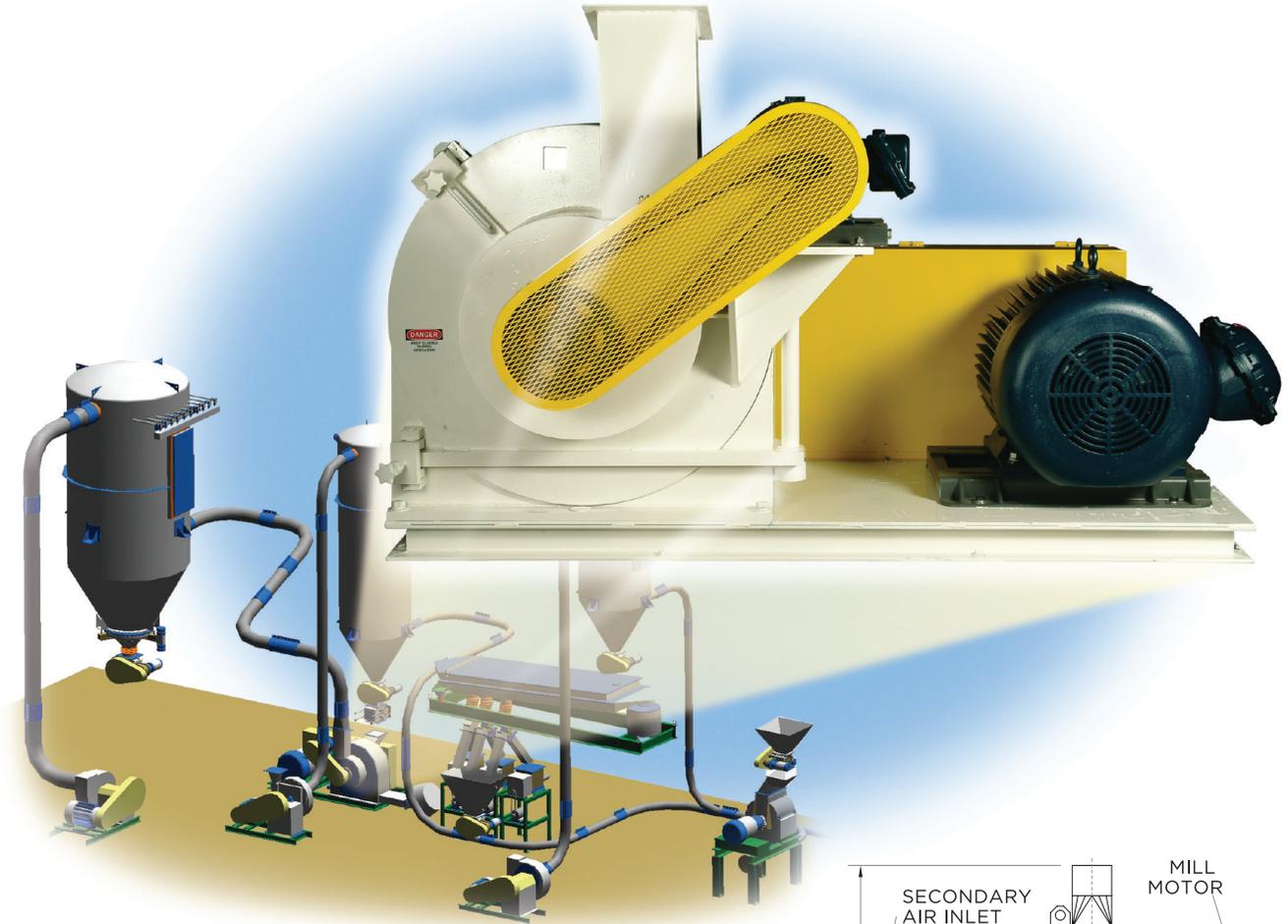
Grinding Jaws provide for a finer grind and a more precise particle distribution



Sieve Ring Assembly with Six Jaws



Replaceable Grinding Blades



### GENERAL DIMENSIONS\*

MODEL NUMBER	HP MILL	HP CLASSIFIER	NOMINAL AIRFLOW CFM	A in mm	B in mm	C in mm
CLM-18	3	0.5	150	11 279	21 533	12.875 310
CLM-36	30-50	2	800	19.5 495	35.875 911	28.375 721
CLM-51	50-100	5	1500	35 889	50 1270	42.125 1070
CLM-76	75-150	10	3000	42 1067	63.5 1613	56 1422
CLM-101	125-300	15	6000	53.5 1359	78.5 1994	72.5 1842

\* Do not use for engineering purposes. Please request a certified drawing for all layout or construction uses.

**PRATER**<sup>®</sup>  
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