

## KEY FEATURES

- Heavy-duty fabrication designed for long life
- Unique cantilever rotor design coupled with large hinged doors for ease of maintenance and cleaning
- Easy removal of rotor and screens
- Dynamically balanced rotor assembly and precision built bearing assembly designed for smooth performance and long life
- A dust-tight design ideal for use in a pneumatic-conveyor system
- Maximum screen-to HP ratio ensures optimum capacity and uniform grinding
- Multiple hammer styles and shapes for optimized processing of a wide variety of materials and products
- Strategically located interrupter plates amplify grinding action and allow for easy screen removal
- Ideally suited for use on pneumatic circuit to reduce dust and eliminate heat build-up

Cantilevered rotor is easily removed for cleaning/maintenance by removing one bolt

Unique, strategically placed interrupter plates increase capacity while extending screen life

Large tight fitting single latch door keeps processing dust inside the mill and provides immediate access to heart of unit for service, cleaning parts replacement or screen changes

Screen changes are fast and easy. By merely loosening the retaining clamp, the old screen slides out and the new screen slides in. There are no clamping cradles to wrestle

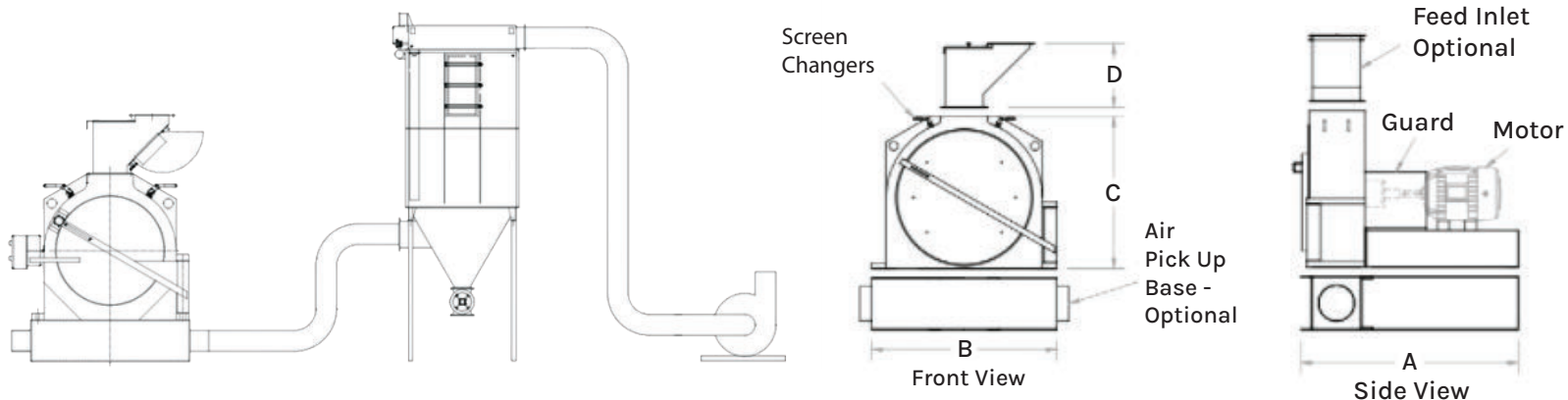
Hammers are bench assembled in sets for fast simple changeover minimizing operational downtime by 75% - another Mega Mill cost saving feature

Light Weight, dynamically balanced rotor minimizes energy waste and ensures more uniform hammer wear

## APPLICATIONS

- Animal Feed
- Brewers Malt
- Cereal
- Diatomaceous
- Fertilizer
- Soya Meal
- Soybeans, Whole
- Spices (salt, chili pepper, nutmeg, paprika etc.)
- Sugar
- Various Grains (rice, wheat, oat etc.)
- Wood (shavings, chips or waste)





## General Dimensions\*

| Model | A      | B      | C  | D  | Motor<br>Hp | Air Relief<br>CFM | Screen<br>Area sq. in |
|-------|--------|--------|----|----|-------------|-------------------|-----------------------|
| MM-5  | 50 1/4 | 38     | 35 | 14 | 10-30       | 750               | 450                   |
| MM-9  | 64     | 38     | 35 | 14 | 40-60       | 1200              | 900                   |
| MM-18 | 73     | 63 1/2 | 53 | 22 | 75-125      | 1800              | 1850                  |
| MM-36 | 108    | 63 1/2 | 53 | 22 | 150-300     | 3000              | 3650                  |

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

## THEORY OF OPERATION

The Prater Mega Mill works on the principle of impact to crush particles. The Prater Mega Mill consists of a high-speed rotor with hammers fixed to support pins at their pivot point and equally spaced around the grinding chamber in a specific pattern. The rotor is supported by precision bearings, allowing the hammers to operate with very close tolerance to one or more screens fixed within the frame. Size reduction is created by the repeated impact from the hammers coupled with collisions as particles are accelerated against one another, the interrupter plates, and the screen surface.

Capacity and particle-size requirements can be regulated as needed by changing the size and number of holes in the screen, the tip speed of the hammers, the number and thickness of hammers, and the clearance between the hammers and the screens.

The mill's unique design provides nearly effortless access to all its internal parts for maintenance/cleaning, significant reductions on power needs, and provides a more uniformly ground product with greater efficiencies than other hammermills. Based on the Mega Mill's increased product handling capacities, at times, one machine may equal the output of two.

This time-proven design has kept these mills running 24-hours a day, 7-days a week, even at higher speeds, without difficulties or problems. The short distance between the bearing and shaft arrangement incorporated in this particular mill makes it moother and quieter when operating, even after wear. Vibration inherent to other type hammermills (with long shaft designs are typically smaller in diameter with heavier rotors) is virtually eliminated.

You will find that your Mega Mill will dramatically reduce downtime, maintenance and power requirements. In some cases, Mega Mills paid for themselves from energy savings alone in 1 year.

The Mega Mill can handle a wide range of industrial and agricultural applications. It is available in mild steel or stainless steel construction for food or chemical applications. In addition to swivel hammers, rigid hammers, and knife blade, a wide variety of other grinding elements are available to meet virtually any of your grinding needs.