

# ROTARY KNIFE CUTTER

Cut corn, spices, roots, and other foods and grains into controlled sizes gently, sharply and accurately, with little or no fines or dust

*Greater shearing action with less impact than comparable cutters—together with large screen area—produces cleanly-cut particles in high capacities, in sizes from 3/64 to 2.0 in. (1.2 to 50.8 mm).*

The MUNSON® Rotary Knife Cutter features a rotor assembly equipped with five full-length knives that cut material against four stationary bed knives until particles become small enough to pass through apertures in a large, semi-cylindrical screen.

Compared with other types of mills, the Rotary Knife Cutter offers greater shear and less impact, yielding particles having exceptionally clean cuts in tightly controlled size ranges, with little or no fines or dust.

An extensive selection of screen sizes allows tight control over end-product sizes, making it ideal to cut or crack corn, grains, spices, roots, chips and similar products.

The rotor knives, which are milled of hardened tool steel and can be re-sharpened, rotate at 550 RPM as standard, imparting centrifugal force that positions particles between cutting edges of the rotating knives and the bed knives, which can be re-sharpened as well as reversed.



Carbon steel Model #4-MS Rotary Knife Cutter equipped with standard pneumatic transition.

Rotational inertia of the solid, heavy-weight rotor assembly, together with high-shear/low-resistance cutting action of the knives, yields greater output per horsepower/kilowatt than with other types of mills.

Material is gravity fed through the infeed hopper at the top of the cutter, into the star-shaped rotor knives. On-size particles pass through a perforated screen having apertures from 3/64 to 2.0 inches (1.2 to 50.8 mm) allowing a wide range of end-product sizes.

The screens provide 320° of exposure, achieving higher throughput rates than other types of mills, even when small-aperture screens are utilized.

The screens are retained within dual-hinged housings with precision-machined channels that allow easy access and rapid screen changes.

Material discharged through a flanged outlet is typically removed by a dilute-phase vacuum conveyor, or gravity fed into a downstream process.

Hinged, safety-interlocked clamshell doors on both sides provide full interior access, allowing clean-out of residual material or thorough sanitizing between production runs.

The rotor assembly rides on sealed flange-block bearings mounted on a heavy-gauge fabricated and machined housing, and is powered by a fully guarded V-belt drive assembly.

Carbon steel or stainless steel construction in a range of finishes is offered to satisfy virtually any industrial or sanitary requirement, including flushing with water or a cleaning solution.



Heavy gauge steel housings of MUNSON Rotary Knife Cutters provide vibration-free operation. This carbon steel model #4-MS includes a specialized flanged transition for pneumatic collection and sealed flange-block ball bearings supporting the rotor assembly.

## FEATURES

- High shear and low impact yields clean cuts with little or no fines or dust
- Tightly controlled particle size ranges
- Expansive 320° screen area yields high throughput, even with small screen apertures
- Rigid one-piece, precision-machined, fabricated and machined steel rotor assembly
- Five adjustable rotor knives of proprietary hardened tool steel
- Four reversible screen-mounted stationary knives of hardened proprietary tool steel
- Dual-hinged screen housings for easy access and quick screen changes
- Screens positively secured against machined edges
- Extensive selection of screen sizes from 3/64 to 2.0 inches (1.2 to 50.8 mm)
- Fabricated and machined cutter housing of rigid heavy-walled steel
- Sealed flange-block bearing assemblies support rotor assembly in rigid housing
- Gravity or pneumatic discharge transitions available
- Common base for mill housing and drive assembly
- Standard cutter operating speed 550 RPM. Other speeds available to suit application
- Totally enclosed drive guards
- Rotational momentum of high-mass rotor assembly minimizes power requirements

## APPLICATIONS

- Spices
- Corn
- Roots
- Grain
- Animal feed
- Cereal
- Dried vegetables
- Peppercorn
- Nuts
- Bark
- Plastic pellets
- Potatoes and other tubers
- Wood chips
- Herb leaves

## OPTIONS

- Construction of carbon steel or stainless steel #304 and #316
- Sanitary design, construction and finish
- Stainless steel support structure and guards
- Feed hoppers with baffles and product-regulating feed devices
- Support legs for raising discharge clearance

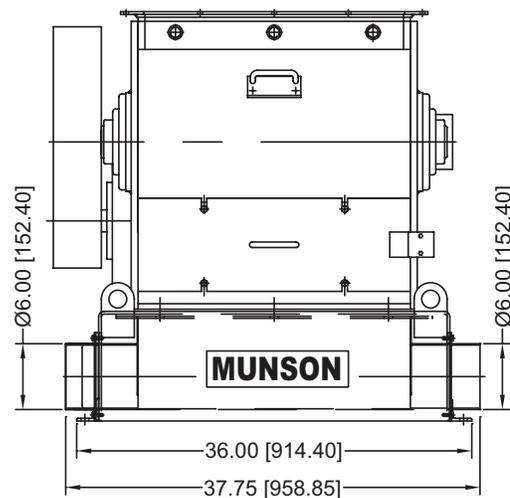
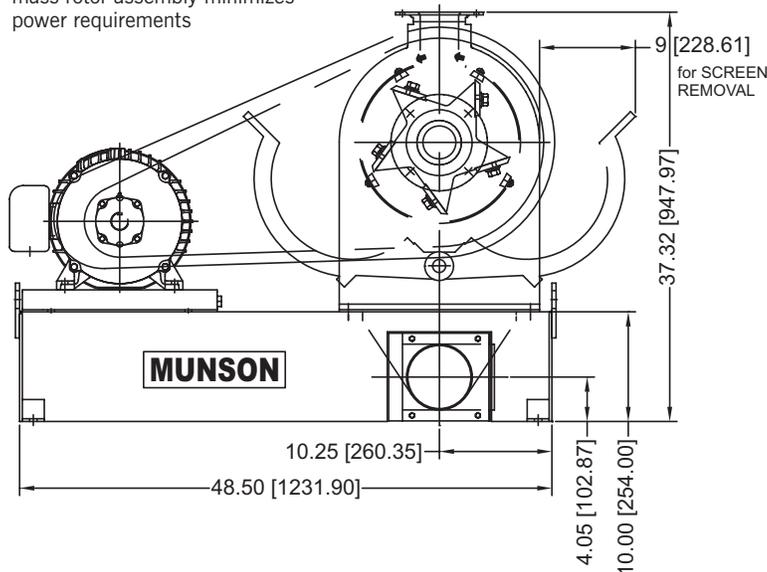
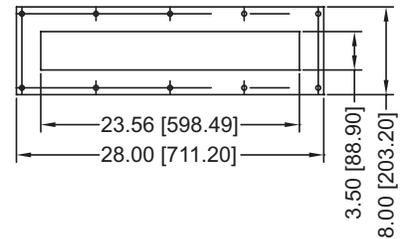


Sanitary Stainless Steel Rotary Knife Cutter with large clamshell doors on both sides allows thorough wash down between runs of multiple materials, preventing cross contamination. (Shown without drive components or support base for pneumatic collection).



Sanitary model #4-SS all-stainless-steel Rotary Knife Cutter shown with typical drive configuration.

### TOP FLANGE



### RELATED MUNSON EQUIPMENT:

MIXERS: Rotary Batch (high capacity), Ribbon/Paddle/Plow, Cylindrical Plow, Vee-Cone, Double-Cone, Rotary Continuous, High Intensity, Fluidized Bed

SIZE REDUCTION EQUIPMENT: Screen Classifying Cutters, Knife Cutters, Pin Mills, Attrition Mills, Hammer Mills, Lump Breakers, Shredders

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