

WHAT MAKES THE  
MPE GRAN-U-LIZER™  
SUPERIOR?



Superior Particle Size Distribution

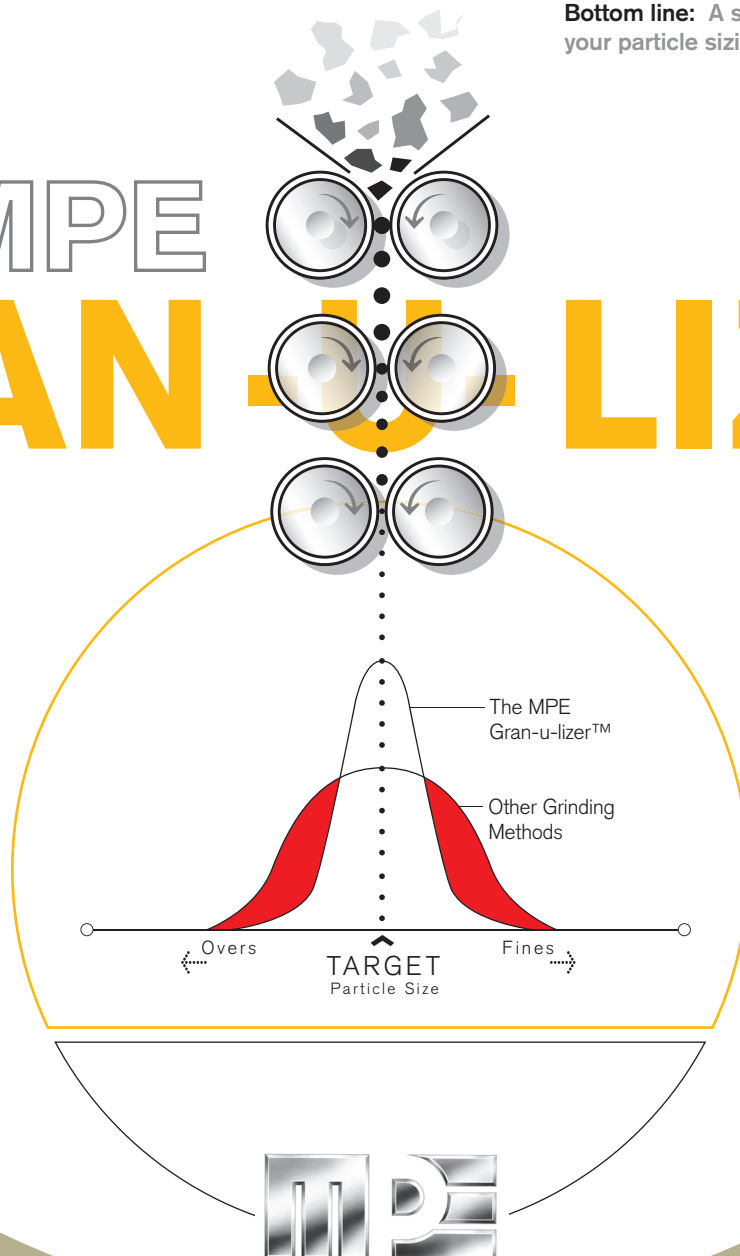
Superior Product Uniformity

Superior Fines Reduction

Superior Process Control

**Bottom line:** A superior method for achieving  
your particle sizing requirements.

# THE MPE GRAN-U-LIZER™



# MPE GRAN-U-LIZERS



## How does the Gran-U-Lizer differ from other grinding methodologies?

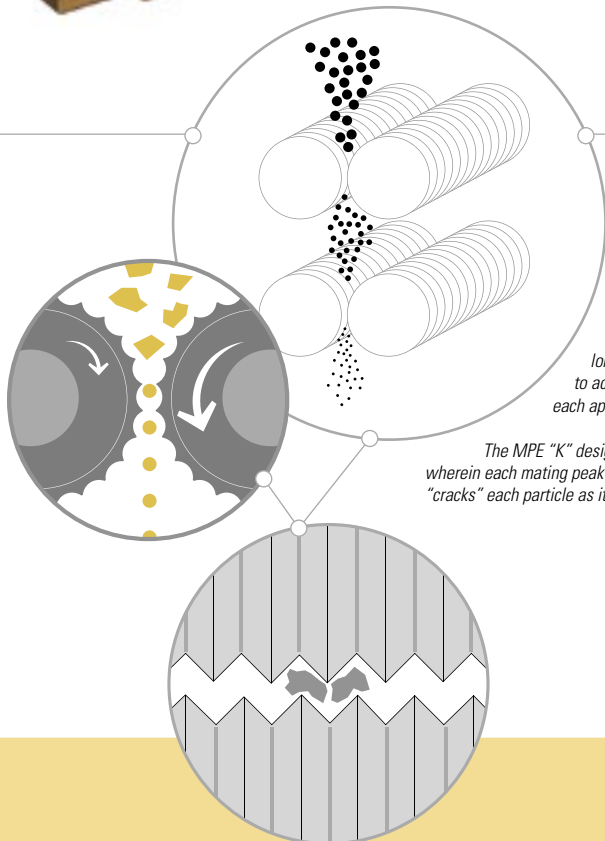
The Gran-U-Lizer design is non-attrition (i.e. hammer mills, Fitz mills, attrition mills, etc.), thereby minimizing the generation of fines in the grinding process.

Low friction principle of operation results in minimal temperature elevation during grinding; additionally, energy and power requirements are reduced.

Precision engineered roll designs, and construction, provide the optimum reduction on each stage of rollers, which can be either single or multiple up to six (6) stages (roller pairs).

The Gran-U-Lizer design is configured for each application. By optimizing roll surface textures, roll speeds, and roll gap settings, the Gran-U-Lizer carefully controls the "explosion" that occurs in the "cracking" or "fracturing" of the product.

**The bottom line**, the MPE Gran-U-Lizer achieves a narrow, sharp particle size distribution which is typically the most important factor in the size reduction process. A narrow distribution means fewer unwanted fines, which means less product waste, greater yields and increased profits. New, enhanced, product application possibilities can also be created through the Gran-U-Lizer process method.

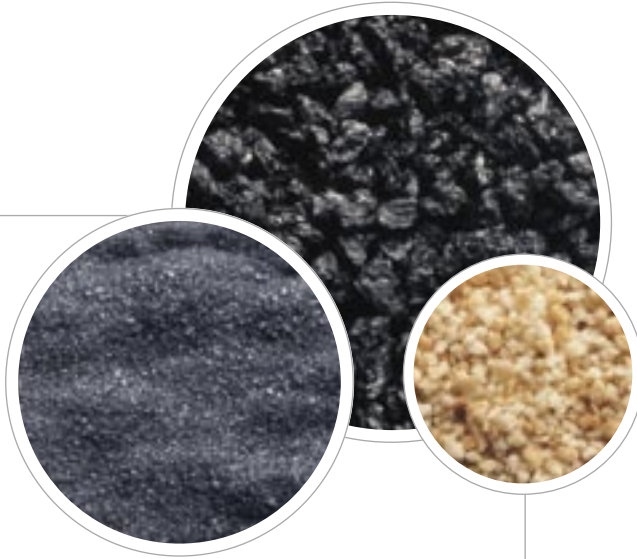


*The MPE Gran-U-Lizer design can incorporate virtually any one of a multitude of roll designs, depending upon each product application.*

*The MPE "F" design Gran-U-Lizer utilizes either longitudinal or circumferential roll corrugations (cuts) to achieve the optimal particle size distribution of each application.*

*The MPE "K" design Gran-U-Lizer utilizes a unique cracking process wherein each mating peak and valley acts as a "fulcrum" point that actually "cracks" each particle as it is bridged between mating rollers.*





**Count on MPE...** The world's proven leader in the manufacturing of particle reduction equipment. The MPE guarantee, which is based upon thousands of installations in hundreds of different industries, will ensure that your application meets or exceeds product specification standards.

**MPE's 1, 2, 3 guarantee allows certified, guaranteed results at your facility:**

- 1)** MPE will perform a laboratory test on your product and provide you with a finished product analysis, along with a sample, based upon our laboratory tests.
- 2)** MPE guarantees that the equipment you purchase will meet or exceed those previous tests conducted in our laboratory, and a pre-shipment test is conducted on the finished equipment prior to shipment.
- 3)** MPE also guarantees that once your equipment is installed at your facility, your results will meet or exceed those previously achieved during both the laboratory and pre-shipment testing, provided that the same feedstock is utilized as that which was the basis for the original testing.

## PRODUCT APPLICATIONS

Adhesive	Cat Litter	Freeze Dried Bacteria	Peppercorn	Sodium Azide
Acrylic Copolymer	Catalysts	Frozen Eggs	Pesticide Granules	Sodium Carbonate
Acrylic Resin	Charcoal	Glass	Phenolic Resin	Sodium Chlorate
Activated Alumina	Chlorine Dry Bleach	Glass Frit	Phosphate	Sodium Phosphate
Activated Carbon	Chocolate	Granola	Pigment	Sodium Polyacrylate
Alumina	Cinnamon	Ginseng	Pita Bread	Sodium Sulfate
Almonds	Citric Acid	Graphite	Plastics	Sodium Tripolyphosphate
Alumina Hydroxide	Clay	Gum Rubber	Polyacrylamide	Sorbitol
Alumina Silica	Coal Based Coke	Hazelnuts	Polyamide Resin	Soybeans
Aluminum Silicate	Coal Briquettes	Ice Cream Cones	Polydestrose	Spices
Animal Bone	Coal Slag	Kitty Litter	Polyester	Starch Product
Aspartame	Coconut Based Charcoal	Lead Acetate	Polymers	Stone Crusher
Aspirin	Coconut Shells	Lead Strand	Polyvinyl Acetate	Sugar
Baking Soda	Coffee	Lime	Popcorn	Superabsorbents
Barium Sulfate	Coke	Limestone	Poppy Seed	Swimming Pool Chemicals
Bentonite	Cookies	Lithium Carbonate	Potash	Synthetic Polyvinyl Acetate
Bentonite Clay	Cosmetics	Macadamia Nuts	Potassium Carbonate	Tea
Bones	Corn	Magnesium Fluoride	Potassium Chloride	Teflonized Carbon
Boron Nitrate	Detergents	Magnesium Oxide	Potassium Sulfate	Thermoset Molding
Boron Nitride	Diatomaceous Earth	Metals	Potassium Superoxide	Compound
Boron Nitrite	Dolomite	Metallurgical Coke	Potato Chips	Thermoset Plastic
Calcium Carbide	Dried Garlic	Molybdenum Oxide	Resin	Thermoset Resin
Calcium Carbonate	Dried Onion	Molecular Sieve	Rock Salt	Tile
Calcium Chloride	Dried Polymer	Monocalcium Phosphate	Roofing Material	Toffee
Calcium Hypochloride	Epsom Salt	Nuts-Dried	Rubber	Toner
Calcium Oxide	Ferro Manganese	Paprika	Salt	Urea
Calcium Stearate	Ferrous Oxide	Parsley	Seasonings	Vanadium Pentoxide
Candy	Ferrous Silica	Pasta	Seeds	Walnuts
Carbon	Fertilizer	Peanuts	Silica (Amorphous)	Walnut Shells
Carbon Black	Flax Seed	Pecans	Silicon Dioxide	Wheat
Carbon Graphite	Flour	Pellets	Silicon Metal	Wheat Flakes
Carbon Silica	Food Coloring	Pepper	Silicon Monoxide	Zinc Stearate

## MODERN PROCESS EQUIPMENT CORPORATION

3125 South Kolin Avenue  
Chicago, IL 60623

P 773.254.3929

F 773.254.3935

Email: [sales@mpechicago.com](mailto:sales@mpechicago.com)

[www.mpechicago.com](http://www.mpechicago.com)

