THE MPE GRAN-U-LIZER™

WHAT MAKES THE MPE GRAN-U-LIZER SUPERIOR?

• SUPERIOR SIZE DISTRIBUTION
• SUPERIOR PRODUCT UNIFORMITY
• SUPERIOR FINES REDUCTION
• SUPERIOR PROCESS CONTROL

THE BOTTOM LINE:

A SUPERIOR METHOD FOR ACHIEVING YOUR PARTICLE SIZING REQUIREMENTS

SELECTED PRODUCT APPLICATIONS

Activated Carbon  |  Superabsorbent Polymer
Various Seeds/Nuts/Grains  |  Metallurgical Silicon/High Purity Silicon
Salt/Sugar & Spices  |  Limestone  |  Petroleum Coke

Adhesive  |  Clay
Acrylic Copolymer  |  Coal Based Coke
Acrylic Resin  |  Coal Briquettes
Alumina  |  Coal Slag
Alumina Hydroxide  |  Cocoa Powder
Alumina Silica  |  Coffee
Aluminum Silicate  |  Coke
Aspartame  |  Cookies
Aspirin  |  Cosmetics
Baking Soda  |  Corn
Barium Sulfate  |  Detergents
Bentonite  |  Diatomaceous Earth
Bone  |  Dolomite
Boron Nitrate  |  Dried Garlic
Buckwheat  |  Dried Onion
Calcium Carbide  |  Dried Polymer
Candy  |  Epsom Salt
Carbon  |  Ferrum Manganese
Charcoal  |  Ferrum Oxide
Chlorine Dry Bleach  |  Ferrum Silica
Citric Acid  |  Fertilizer
Flax Seed  |  Flour
Food Coloring  |  Freeze Dried Bacteria
Frozen Eggs  |  Glass
Glass Frit  |  Granola
Ginseng  |  Graphite
Gum Rubber  |  Ice Cream Cones
Lead Acetate  |  Lead Strand
Lentils  |  Lime
Lithium Carbonate  |  Magnesium Fluoride
Magnesium Oxide  |  Metallurgical Coke
Molybdnum Oxide  |  Monocalcium Phosphate
Peanuts  |  Pasta
Peppercorn  |  Pesticide Granules
Phenolic Resin  |  Phosphate
Phosphite  |  Pigment
Pita Bread  |  Plastics
Polyacrylamide  |  Popcorn
Potash  |  Potassium Carbonate
Potato Chips  |  Resin
Rice  |  Rock Salt
Rocking Material  |  Rubber
Silica  |  Silica (Amorphous)
Silicon Dioxide  |  Silicon Monoxide
Silicon Nitride  |  Sodium Carbonate
Sorbitol  |  Soybeans
Starch Products  |  Synthetic Polyvinyl
Acetate  |  Tea
Teflonized Carbon  |  Thermoset Molding
Tile  |  Toner
Urea  |  Vanadium Pentoxide
Wheat  |  Xylitol
Zinc Stearate

MPE GRAN-U-LIZER™

OTHER GRINDING METHODS

THE WORLD’S LEADING MANUFACTURER
OF PRECISION PARTICLE REDUCTION EQUIPMENT
HOW DOES THE MPE GRAN-U-LIZER™ DIFFER FROM OTHER GRINDING METHODOLOGIES?

- The Gran-U-Lizer design is non-attrition (vs. hammer mills, Fitz mills, other 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 speed ratios and roll gap settings, the Gran-U-Lizer carefully controls the “explosion” that occurs in the “cracking” or “fracturing” of the product.

SUPERIOR REDUCTION RESULTS FROM SUPERIOR GRINDING EQUIPMENT

The bottom line is the MPE Gran-U-Lizer achieves a more 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 leads to less product waste, greater yields and increased profits. New, enhanced, product application possibilities can also be created through the Gran-U-Lizer process method.

- PRODUCES A NARROW PARTICLE DISTRIBUTION
- MINIMIZES FINES (UP TO 75%)
- CONSISTENT RESULTS
- MAXIMIZES PRODUCT YIELDS

INSIDE THE MPE GRINDING TECHNOLOGY

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

The unique 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.

The control of particle size (mesh) is achieved by pitch width as well as gap clearance between each succeeding set of rolls.

THE MPE GUARANTEE

Our guarantee is based upon thousands of installations in hundreds of different industries and will ensure that your application meets or exceeds product specification standards. MPE’s three step process allows certified, guaranteed results at your facility.

- 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.
- 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.
- 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 the same feedstock is used as which was the basis for the original laboratory testing.