

MODEL **IMD 800 SERIES** GRAN-U-LIZER™

**MODULAR DESIGN FOR HIGH ACCURACY CRACKING,
GRINDING AND CRUSHING APPLICATIONS**



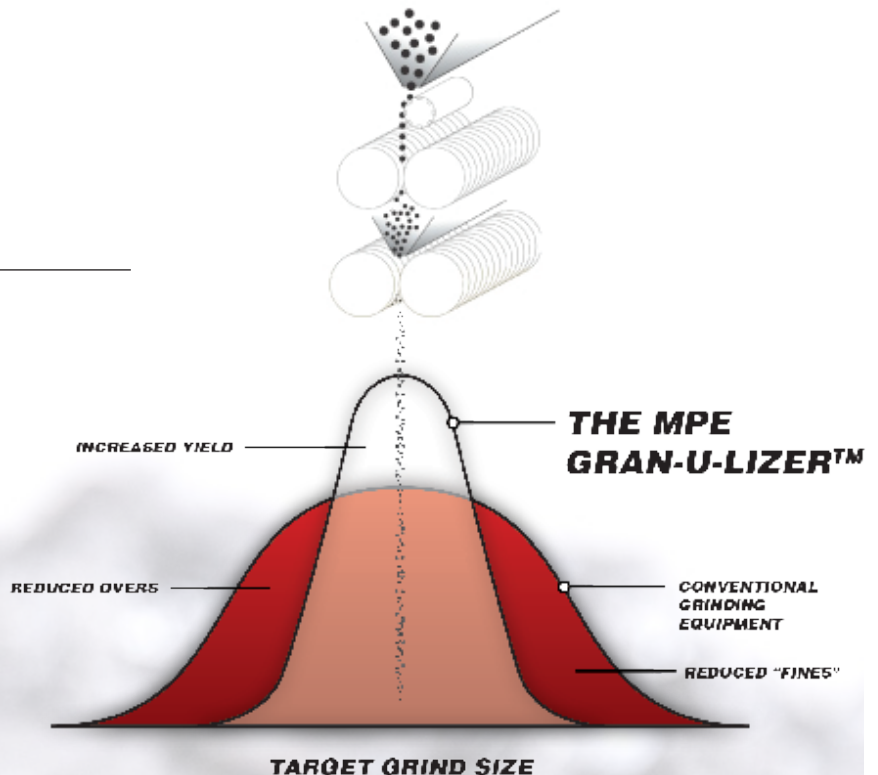
Model IMD 800 Gran-U-Lizer with Rotary Feeder

MPE's high capacity Model IMD 800 Series Roller-Style Gran-U-Lizers provide precisely-controlled uniform particle size distributions with minimal unwanted "fines", even in the most demanding of applications. The IMD 800 is designed for industrial food, chemical and mineral processing applications where exact particle size distributions are desired.

Rugged construction and high tolerance-machined rolls provide precise roll "nip" tolerances. Independent Motor Drives (IMD) and high torque drive (HTD) belts achieve higher roll speeds and capacities with increased efficiencies.

THE MPE GRAN-U-LIZER ADVANTAGE

Accurately machined rolls and MPE's proprietary design technologies provide a uniform particle size distribution, with up to 75% fewer unwanted "fines" when compared with other grinding equipment designs.



SPECIFICATIONS

Roll Size: 8 x 30 inches [203 x 762 mm]

Sections: One (1) to five (5) stacked grinding sections

Total Power: 5 - 20 HP [3.7 - 15 kw] per section / 50 or 60 hz

Target Range: 4 - 150 US Mesh [4,700 - 100 microns]

Capacity: Dependent upon material grind size and density

Drawing: Available for download on website

FEATURES

Local Message Display			
Operator Status: Standby	Recipe: 21	80%	Feeder Speed ###%
Density ### g / L	Actual: 0.0350 in		
Density ### g / L	Recipe: 0.0350 in	72%	
SP Adjust ###%	Actual: 0.0080 in		
	Recipe: 0.0080 in	67%	
Normalizer Bypass	Actual: 0.### in		
	Recipe: 0.### in	### F	
Motor Load Setpoint ###%			
Motor Load Actual ###%			
Door Position ###%			### F

AUTOMATED RECIPE-DRIVEN CONTROL SYSTEM WITH PRECISION SERVO GAP CONTROL

Unique pneumatic servomotor design and micrometer indicators on each section provide easy, microfine gap adjustments with an accuracy of +/- 0.0005" (0.01mm). The Recipe-Driven Control System monitors and controls all grind requirements.

WIDE RANGE OF FINISHED PARTICLE SIZES & APPLICATIONS

Infinite roll gap adjustment allows for a wide range of grind flexibility, typically ranging from 4 to 150 US Mesh [4,700 - 100 microns]. The IMD 800's uniform particle size distribution, low-energy usage, extreme wear resistance and minimal heat introduction make this Gran-U-Lizer advantageous for thousands of applications.

GREATER CAPACITY AND EFFICIENCIES WITH MODULAR GRINDING SECTIONS

Each modular grinding section is driven by its own high-efficiency, Independent Motor Drive (IMD) which allows for faster roll speeds and higher throughput than traditional serpentine belt designs. HTD (High Torque Drive) belts and spring-loaded tensioners provide maintenance-free power transmission to the rolls at increased speeds (up to 2000 RPM).

RUGGED DESIGN & CONSTRUCTION

Heavy-duty construction and oversized double spherical roller bearings provide a long service life, reduced vibrations and maintain tight tolerances under extreme conditions.

OPTIONAL TEMPERATURE-CONTROLLED ROLLS & PRODUCT TEMPERATURE MONITORING SYSTEMS

Optional water-cooled or heated rolls can be installed for products that require temperature control during the grinding process. Thermoprobes monitor product temperature at various points in the grinding process.

OTHER OPTIONS INCLUDE:

- High hardness roll materials and coatings for extreme wear resistance
- Stainless steel and/or electroless nickel plating for non-corrosive construction
- Gas-tight designs
- Inert gas grinding environment
- Air purge bearings
- Variable speed rotary or vibratory feeders

