

# MODEL **IMD 800** SERIES GRANULIZER

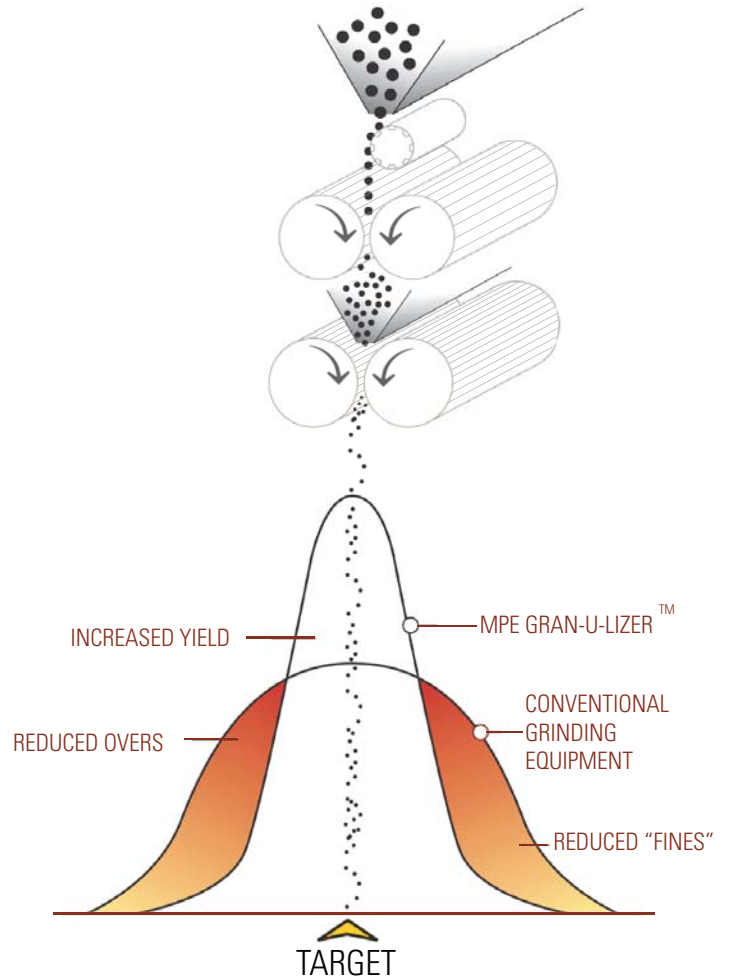
**Modular Design for High Accuracy Cracking, Grinding and Crushing Applications**



Model IMD 800 Gran-U-Lizer  
with Rotary Feeder

MPE's high capacity Model IMD 800 Series Roller-Style Granulizers™ 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.



**MODERN PROCESS EQUIPMENT CORPORATION**

**THE SOURCE: FOR SUPERIOR GRINDING EQUIPMENT**



SERIES IMD 800

**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 and Options :**

**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.

|            |           |     |  |
|------------|-----------|-----|--|
| Recipe: 21 |           | 80% |  |
| Roll Gap   |           |     |  |
| Actual     | 0.0350 in | 72% |  |
| Recipe     | 0.0350 in |     |  |
| Actual     | 0.0080 in | 67% |  |
| Recipe     | 0.0080 in |     |  |

**Wide Range of Finished Particles Sizes and Applications**

Infinite roll gap adjustment allows for a wide range of grind flexibility, typically ranging from 4 to 150 US Mesh [4700 - 100 microns]. The IMD 800's uniform particle size distribution, low-energy usage, extreme wear resistance and minimal heat introduction make the Granulizer advantageous for thousands of applications.

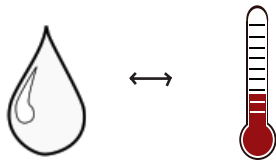


**Greater Capacity and Efficiencies with Modular Grinding Sections**

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 3000 RPM).

**Rugged Design and 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 and 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



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