

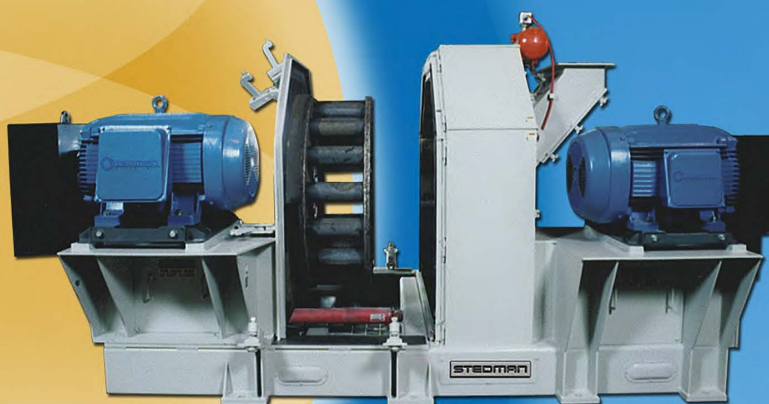


Provided by Stedman Machine Company  
for Rate Technology Systems Ltd.

## The Solution To Size Reduction For Over 185 Years



F-Series™  
Cage Mill



H-Series™ Cage Mill



V-Slam™  
VSI

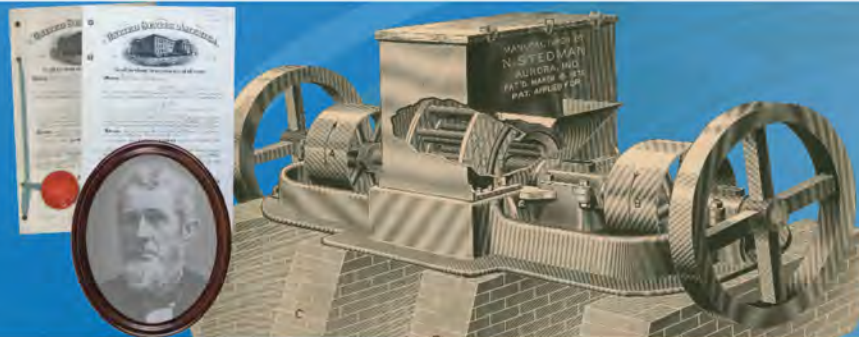
Complete Solutions  
Industry Leading Testing  
Installation, Parts and Service



GrandSlam™  
HSI



# Complete Size Reduction Solutions



In 1834 Nathan Stedman founded Stedman Foundry & Machine Company.

Later Mr. Stedman developed a unique method of size reduction and received multiple patents for what has become known today as the cage mill. Since then, providing solutions for companies on how to reduce material size has become second nature to Stedman Machine Company.

Today, Aurora, Indiana-based Stedman continues to focus on industrial size reduction and works closely with its customers to determine the best, most cost-effective, efficient size reduction method and equipment for their specific applications.

No matter what the material, STEDMAN offers the right equipment to crush, pulverize, fine grind, blend and/or de-agglomerate the toughest materials.

## FULL RANGE OF SIZE REDUCTION EQUIPMENT

- Primary & Secondary HSI Impactors
- Cage Mill Pulverizers
- V-Slam™ Vertical Shaft Impactors
- Grand Slam™ Waste Recyclers
- Full Circle Hammer Mills
- Aurora™ Single & Dual Rotor Crushers
- Single & Dual Rotor Chain Mills
- Up & Down Running Hammer Mills
- Single & Dual Rotor Chain Mills
- Custom engineered solutions for your size reduction needs

Contact Stedman today to discuss your specific size reduction requirements, and our experienced staff will tailor your custom solution.

## WE TACKLE ANY MATERIAL

- Wet, sticky materials
- Pet Coke
- Aglime
- Glass recycling
- Brick & Clay
- Limestone
- Coal
- Metals/Alloys
- Shale
- Grains
- Starch
- Corn
- Aluminum dross
- Slag
- Chemicals
- Floor tiles
- Tungsten carbide
- Asphalt recycling
- Bakery waste
- Gravel
- Salt
- Fertilizers
- Gypsum
- Animal by-products
- Biomass
- Ash



# Primary & Secondary Reduction Equipment

## MEGA SLAM™ PRIMARY HSI IMPACTOR



Customizable

- Reversible monoblock and fabricated aprons
- Capacities from 100-1200 TPH
- Superior solid rotor
- Extra large feed opening
- Easy open hinged rear housing
- Fast apron access and adjustment
- Easy Maintenance

## GRAND SLAM™ SECONDARY & TERTIARY HSI IMPACTOR



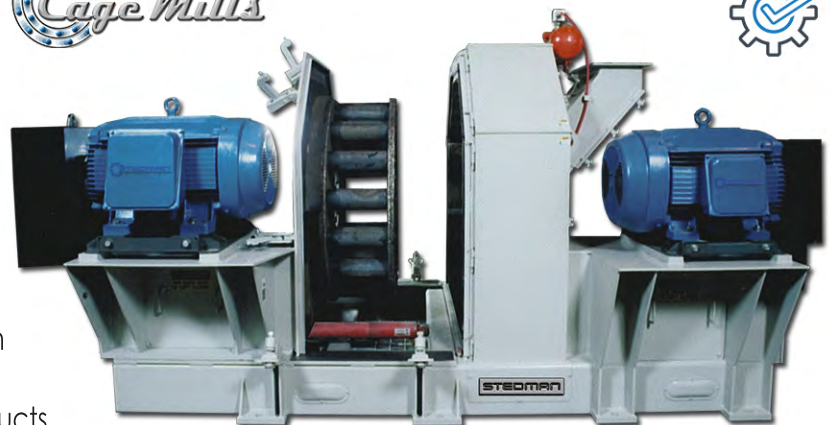
Customizable

- Front and rear opening housings
- Highest first pass yield of HSI's
- Industry leading rotor designs
- Reduction ratios up to 30:1
- Feed sizes up to 16" with capacity up to 1600 TPH
- Open discharge with no screen or grates to plug
- Optional integrated heaters and air cannons

## CAGE MILL PULVERIZER

- Single- and multi-row cage mill pulverizers
- Economical with no hammers or screens to replace
- Hydraulically operated, quick opening retractor
- Capacities from 100 lbs. to 800 TPH
- Compact, unitized construction
- Optional integrated heaters and air cannons

Cage mill pulverizers offer selective crushing, high crush counts and produce a cubical product. They are ideal for wet, sticky materials and blending or cleaning products.



Customizable





## Secondary, Tertiary & Fine Grinders

## Specialized Reduction Equipment

### HAMMER MILLS



- Extra-Heavy Housing Liners and Breaker Plates
- Exclusive 2-stage reduction
- Hammer designs to fit your material
- Up and down running
- Large Feed Opening
- Adjustable Grinding Plates
- Carbide hammer overlays available
- Ideal for a large variety of materials



### AURORA™ SINGLE & DUAL ROTOR CRUSHERS



- Higher throughput and smaller particles
- Double end wall construction
- Multiple cutter designs for multiple materials
- Liquid tight oil bath with sight gauge
- Available in carbon steel or stainless steel
- Custom sizes and configurations available
- Ideal when declumping for pneumatic conveying and unloading



### FC HAMMER MILL AIR SWEEP MILL



- Used where a Medium to Fine Particle is required
- Excellent as a Pre-pelletizer grinder
- Capacities up to 24,000 pounds per hour
- Corn, Grains, Bio-Mass, Rendering
- Air Swept, large screen area - maximum capacity
- Customizable screens and hammers
- Easy access screen carriage - fast screen changes
- Excellent for free flowing granular materials

### SINGLE & DUAL ROTOR CHAIN MILLS



- Single and Dual Rotor designs
- Simple low maintenance design
- Heavy duty construction
- Removable steel backplate
- Speeds up to 1,500 RPM
- Custom sizes available



### V-SLAM™ VERTICAL SHAFT IMPACTOR

- Reduction ratios up to 15:1
- Production capacities range from 8-500 TPH
- Reduces material with fewer fines
- Automatic recirculating lubrication system
- Drop in anvils (no tools required)
- Replaceable crushing chamber and lid liners
- Cubical particle shape
- Patented tubular rotor or standard shoe and anvil design
- Designed for reduction of animal feeds, minerals, ores and chemicals



### EXPERIENCE THE STEDMAN DIFFERENCE

- Test Plant with full size crushers
- Full manufacturing, machining, and assembly facilities
- MSHA Trained Sales, Engineering & Service Personnel
- Improving size reduction processes
- Full range of crushing equipment
- Financing Assistance - Lease or direct purchase
- Parts and Service . . . 24 hours a day, 7 days a week, 365 days a year





# F Full Service Partner

## COMPLETE TURNKEY SOLUTIONS



Innovative Processing Solutions designs, manufactures and installs custom crushing, grinding and material handling systems.

From a small equipment retrofit to a large turnkey facility, our engineers make it happen.

- Size Reduction
- Size Separation
- Material Handling
- Dust Collection
- Material Storage
- Control Systems



[sales@innovative-processing.com](mailto:sales@innovative-processing.com)  
[www.innovative-processing.com](http://www.innovative-processing.com)

## INSTALLATION, PARTS & SERVICE



After the sale is when customers truly appreciate STEDMAN. All of the company's people are focused on industrial size reduction. Therefore, customers can be assured of dealing with experienced engineers, parts and service people.

- We offer high quality wear parts at the best prices
- 24-hour parts and service
- Factory reconditioning of units and parts
- New warranties on reconditioned parts and units
- Annual inspections available



1-800-262-5401  
[parts@stedman-machine.com](mailto:parts@stedman-machine.com)



# Testing Materials from A-Z

## SELECT THE PERFECT CRUSHER FOR YOUR APPLICATION

Stedman's Size Reduction Test Lab features full-size crushing equipment for dependable results. Our highly trained and experienced technicians will test your materials on full-size equipment, giving you the information you need to select the right crushing and size reduction equipment.

Customers can provide 1,000-1,200 lbs of their feed materials - whether they're wet and tacky or dry materials, hard minerals, coal, metals, clay, shale, grains, starch, corn, chemicals, aluminum dross, floor tiles, tungsten carbide, etc. - and run it through our test facility. Computer process simulations produce performance reports and flow diagrams, or Stedman will provide one of over 10,000 application reports on file, so you can choose the right equipment for the job.

Stedman encourages customers to observe the testing process in person, so you can learn the basics of controlled impact crushing, pulverizing or upgrading of materials.

## FULL SCALE TESTING MEANS POSITIVE EVALUATION

### MORE THAN JUST UPSCALED TEST RESULTS

After you receive our quality test data, you will be able to estimate your operating costs from power consumption to wear parts. You will see your end product on site and get a confidential, written technical report including:

- Moisture analysis
- Raw feed analysis
- Product gradation analysis
- Output capabilities
- Bulk density
- Abrasion test
- Estimated metal replacement costs
- Power requirements for start-up and running



**Toll Crushing Available!**  
Contact us for rates

## TESTING SAVES TIME & MONEY

STEDMAN's unique, full scale test lab takes the guesswork out of selecting particle size reduction technology and equipment best suited for each application in its specific processing environment. Testing assures customers prior to making an investment that they will achieve their size reduction goals in the most cost-effective manner. Test data helps customers estimate operating costs from power consumption to wear cost. With more than 10,000 test evaluations of various materials on file, coming to the best solution doesn't take long.

Stedman Test Facility • 108 Indiana Avenue • Aurora, IN 47001 • Freight Prepaid with SDS



Serving Industries  
Since 1834™



Your authorized Stedman representative:

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A4260™ Hammer Mill



Aurora™  
Dual Rotor Crusher



A1512™  
Hammer Mill

STEDMAN HAS THE EQUIPMENT AND EXPERIENCE  
FOR ALL YOUR SIZE REDUCTION NEEDS



MegaSlam™  
HSI



GrandSlam™  
Waste Recycler