



# EXCEN-CRUSHER®

## 27" x 20" Clinker Grinder

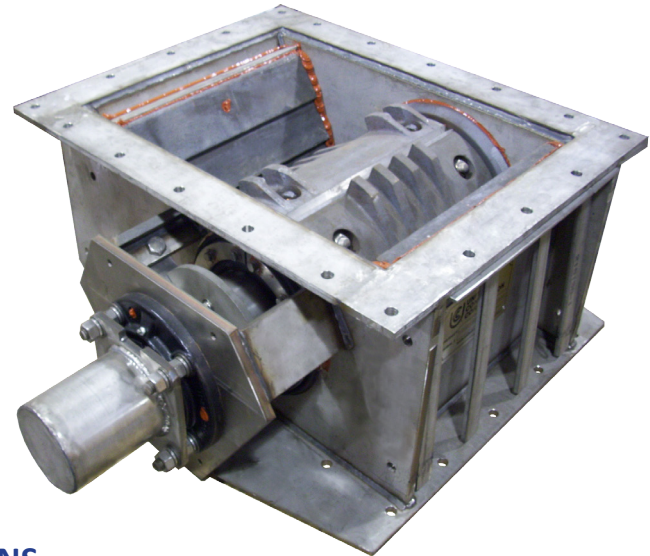
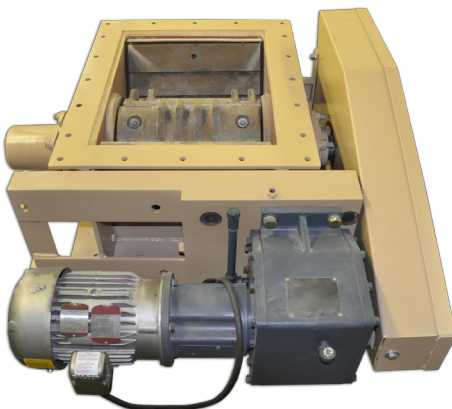
United Conveyor Corporation (UCC) EXCEN-CRUSHER® Clinker Grinders are specifically designed for both wet and dry bottom ash applications, offering superior performance and high-level reliability. With decades of proven experience, UCC clinker grinders effectively reduce material size providing higher efficiency in pneumatic, hydraulic and mechanical bottom ash handling systems.

With thousands of units in service, UCC EXCEN-CRUSHER Clinker Grinders are the industry standard for utility and industrial power plants across the world. Through continuous design improvement, the UCC EXCEN-CRUSHER offers efficient operation, superior sealing and longer service life. Most models are in-stock for immediate delivery to help minimize downtime.

### DURITE® H Wear Components



### Compact Integral Drive Design



### APPLICATIONS

- Wet or Dry Bottom Ash Handling: 10 to 60 TPH Throughput Capacity
- Continuous or Intermittent Operation
- High Temperature Application up to 1200 °F

### KEY ADVANTAGES

- Reliable Performance
- Rugged Design
- Efficient Operation
- Simple Maintenance
- Cost-Effective Rebuilds and Kits
- Knowledgeable Field Support
- In-Stock for Immediate Delivery
- Crusher Exchange Program

# EXCEN-CRUSHER®

## 27" x 20" Clinker Grinder

### ADVANTAGES

#### ■ Superior Construction for Longer, Reliable Service

- › Rugged and reusable fabricated steel body and cam support are built to last multiple service intervals
- › Carbon or stainless steel bodies with optional side liner (body armor) for added wear protection
- › Standard 4-bolt DURITE® H cams are designed for severe-duty applications
- › Square profile teeth provide effective shearing and longer wear life
- › Optional cast-in tungsten carbide cams available for the most extreme applications

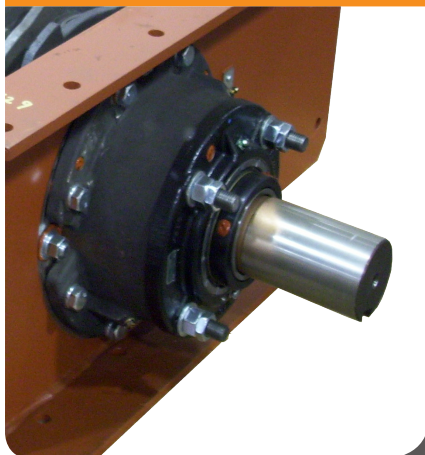
#### ■ Optimal Sealing Performance

- › Optional spring-loaded packing glands prevent leakage, minimize maintenance and increase reliability
- › Elastomer seal rings resist abrasion and wallowing in low-temperature, wet applications
- › Superior performance of woven graphite packing in high-temperature, dry applications

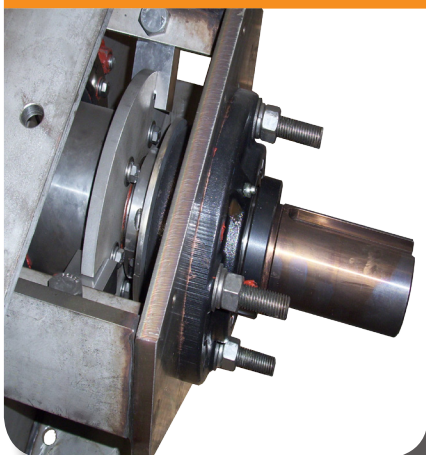
#### ■ Superior Seal Options

- › Fixed Bearing Style – UCC proven design includes elastomer seal rings in wet/low-temperature applications and woven graphite packing in dry/high-temperature applications
- › Floating Seal Style – In wet applications the flexible diaphragm allows the packing gland to “ride along” with the shaft as it deflects, ensuring a tight and leak-free seal
- › Pillow-Block Bearing Style – Bearings are located farther out on the shaft to better isolate them from the packing glands

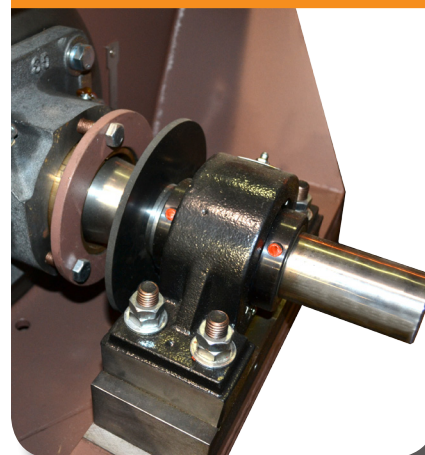
Fixed Bearing  
Style



Floating Seal  
Style



Pillow-Block  
Bearing Style





#### ■ Efficient Operation

- › Single roll cam design produces more crushing force than a double roll design while reducing initial cost, rebuild cost and power consumption
- › 5 HP gearmotor is field proven to efficiently reduce the broadest range of friable materials
- › Solid state control panels provide automatic reversing and overload current protection
- › Standard drive design with flex coupling and control panel maximizes crushing torque

#### ■ Simple Installation and Maintenance

- › Optional roll-out feature cuts down on installation and maintenance time and effort
- › Compact design and industry standard inlet/outlet/overall dimensions allow easy retrofit
- › Replaceable, hardened stainless steel shaft sleeves save on shaft repair/replacement costs
- › Optional auto-lube controller eliminates day-to-day maintenance and ensures seal performance
- › UCC factory rebuilds and kits extend clinker grinder life and increase return on investment

## SPECIFICATIONS

Capacity (approx.)	10 to 60 TPH (dependent on ash type and size)
Input Particle Size (max.)	3" x 8" x 18"
Discharge Particle Size (max.)	1-1/2"
Internal Temp (max.)	1200 °F (dry) or 200 °F (wet)
Internal Pressure (max.)	20 psi
Operating Speed	18 RPM
Drive Horsepower	5 HP
Standard Drive Mounting	Integral Gearmotor Mounting Bracket
Weight (approx.)	1,500 lbs. (without drive) or 2,400 lbs. (with drive)
Flange-to-Flange Height	16-1/2"
Inlet Opening	27" x 19-1/2"
Discharge Opening	19-1/2" x 16"
Body Material	Primed Carbon Steel or Stainless Steel
Side Liner - Body Armor ( <i>optional</i> )	Stainless Steel
Shaft Material	17-4PH Stainless Steel
Shaft Sleeve Material	Stainless Steel with Hard Coating (replaceable)
Cam Support Material	Primed Carbon Steel (standard) or Stainless Steel (optional)
Cam Material	DURITE H (standard) or Cast-in Tungsten Carbide (optional)
Anvil & Combing Plate Material	DURITE H (standard) or AR500 (optional)

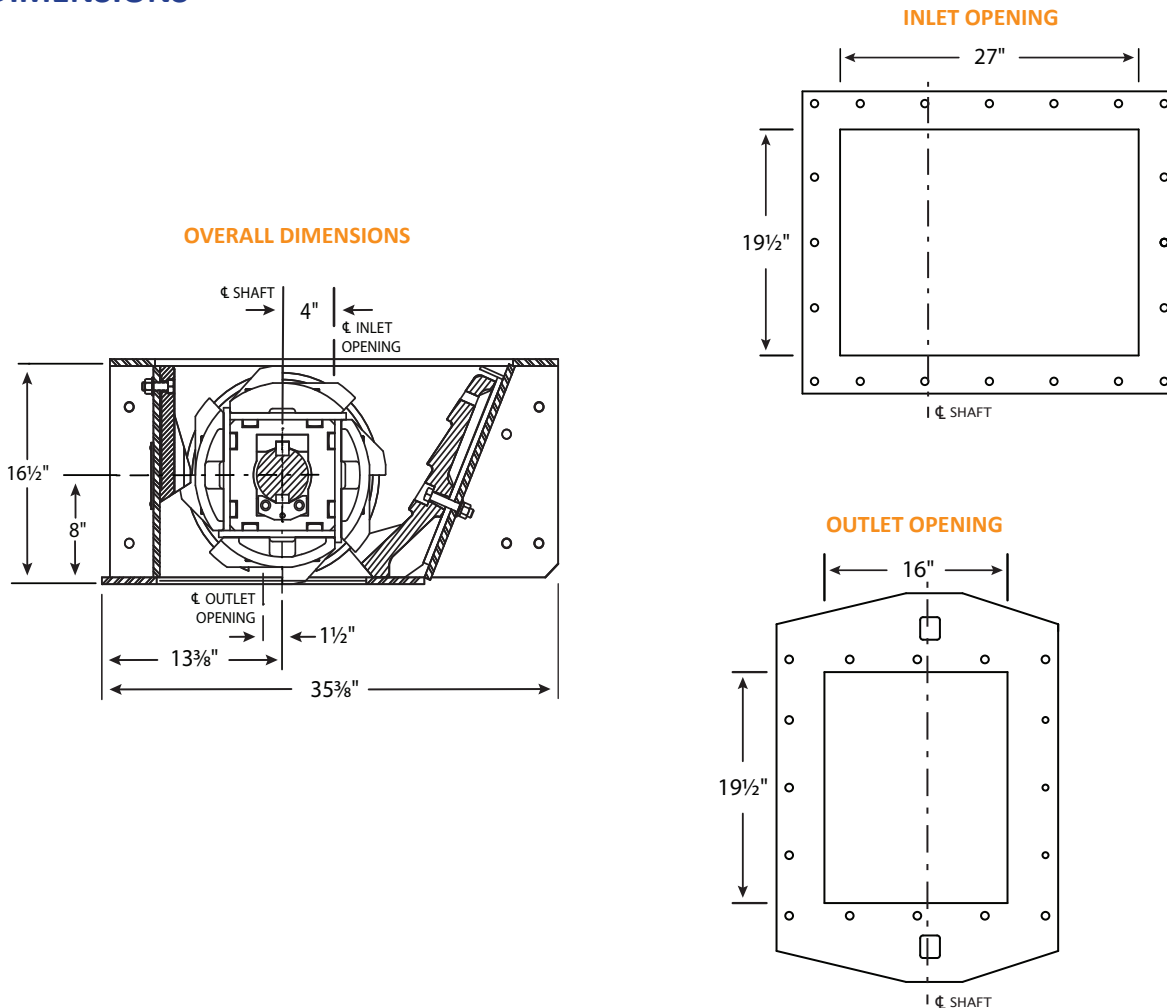
\*DURITE H is 600 BHN Minimum



# EXCEN-CRUSHER®

## 27" x 20" Clinker Grinder

### KEY DIMENSIONS



### ORDERING INFORMATION

Crusher Type	Basic Assembly	Basic Assembly + Drive
Fixed Bearing Style	5-2102-122	5-2112-388
Floating Seal Style (Wet Applications Only)	5-2102-124	5-2112-389
Pillow-Block Bearing Style	5-2102-121	Contact Sales Rep

\* For current product information please reference drawings. For information on accessories, such as Auto-Reverse Controllers or Auto-Lube Controllers, please contact your local sales representative.

**UNITED CONVEYOR CORPORATION**

USA • GERMANY • INDIA • THAILAND • CHINA

contactucc@unitedconveyor.com

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