



EXCEN-CRUSHER®

Clinker Grinder - Model 840

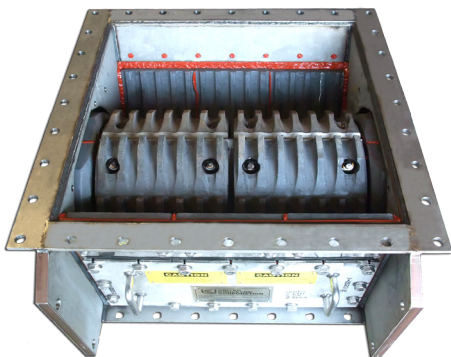
United Conveyor Corporation (UCC) EXCEN-CRUSHER® Model 840 is specifically designed for wet and dry bottom ash applications, offering superior performance and high-level reliability. With decades of proven experience, UCC crushers effectively reduce material size providing higher efficiency in pneumatic, hydraulic and mechanical bottom ash handling systems.

With thousands of units in service, UCC crushers are the industry standard for utility and industrial power plants across the world. Working with UCC, utilities benefit from cost-effective rebuild and upgrade kits using the latest design improvements. The result is high performance and efficiency.

DURITE® H High Chrome Wear Components



Durable Body Design



APPLICATIONS

- Wet or Dry Bottom Ash Handling: 9 to 91 TPH Throughput Capacity
- Continuous or Intermittent Operation
- Large Inlet For Use at the End of a Drag Chain Conveyor
- Use in Series with UCC Model 1370 Crusher for Multi-Stage Particle Size Reduction
- High Temperature Applications up to 649 °C

KEY ADVANTAGES

- Cost-Effective Rebuild Kits
- Compact Single Roll Design
- Efficient Operation and Simple Maintenance
- Knowledgeable Field Staff

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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 (high chrome) cams are designed for severe-duty applications
- › Optional cast-in tungsten carbide cams available for the most extreme applications
- › Square profile teeth provide effective shearing and longer wear life

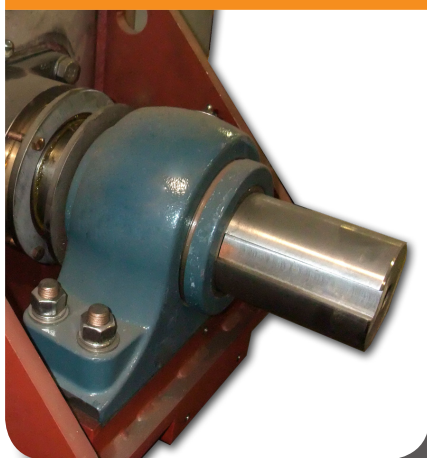
■ Optimal Sealing Performance

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

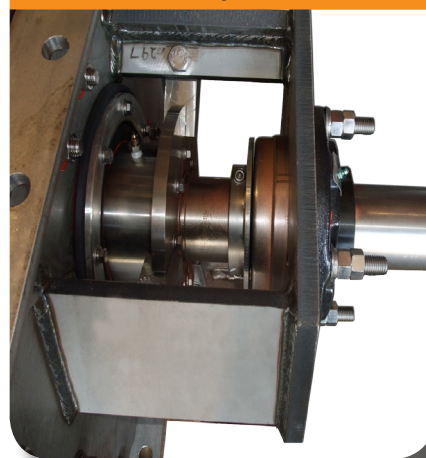
■ Superior Seal Options

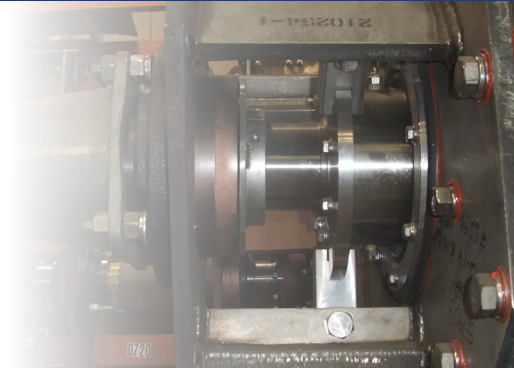
- › Pillow-Block Bearing Style – Bearings are located farther out on the shaft to better isolate them from the packing glands
- › Floating Seal Style – In wet applications the flexible diaphragm allows the packing gland to “ride along” with the shaft as it deflects, ensuring a tight and leak-free seal

Pillow-Block
Bearing Style



Floating Seal
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
- › 7.5 kW gearmotor is field proven to efficiently reduce the broadest range of friable materials
- › 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 sealing performance
- › UCC factory rebuild kits extend clinker grinder life and increase return on investment

SPECIFICATIONS

Capacity (approx.)	9 to 91 TPH (dependent on ash type and size)
Input Particle Size (max.)	102 mm x 229 mm x 508 mm
Discharge Particle Size (max.)	51 mm
Internal Temp (max.)	649 °C (dry) or 93 °C (wet)
Internal Pressure (max.)	1.38 Bar
Operating Speed	16 RPM
Drive Horsepower	7.5 kW
Standard Drive Mounting	Integral Gearmotor Mounting Bracket
Weight (approx.)	2,041 kg (without drive) or 3,016 kg (with drive)
Flange-to-Flange Height	546 mm
Inlet Opening	838 mm x 762 mm
Discharge Opening	457 mm x 762 mm
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

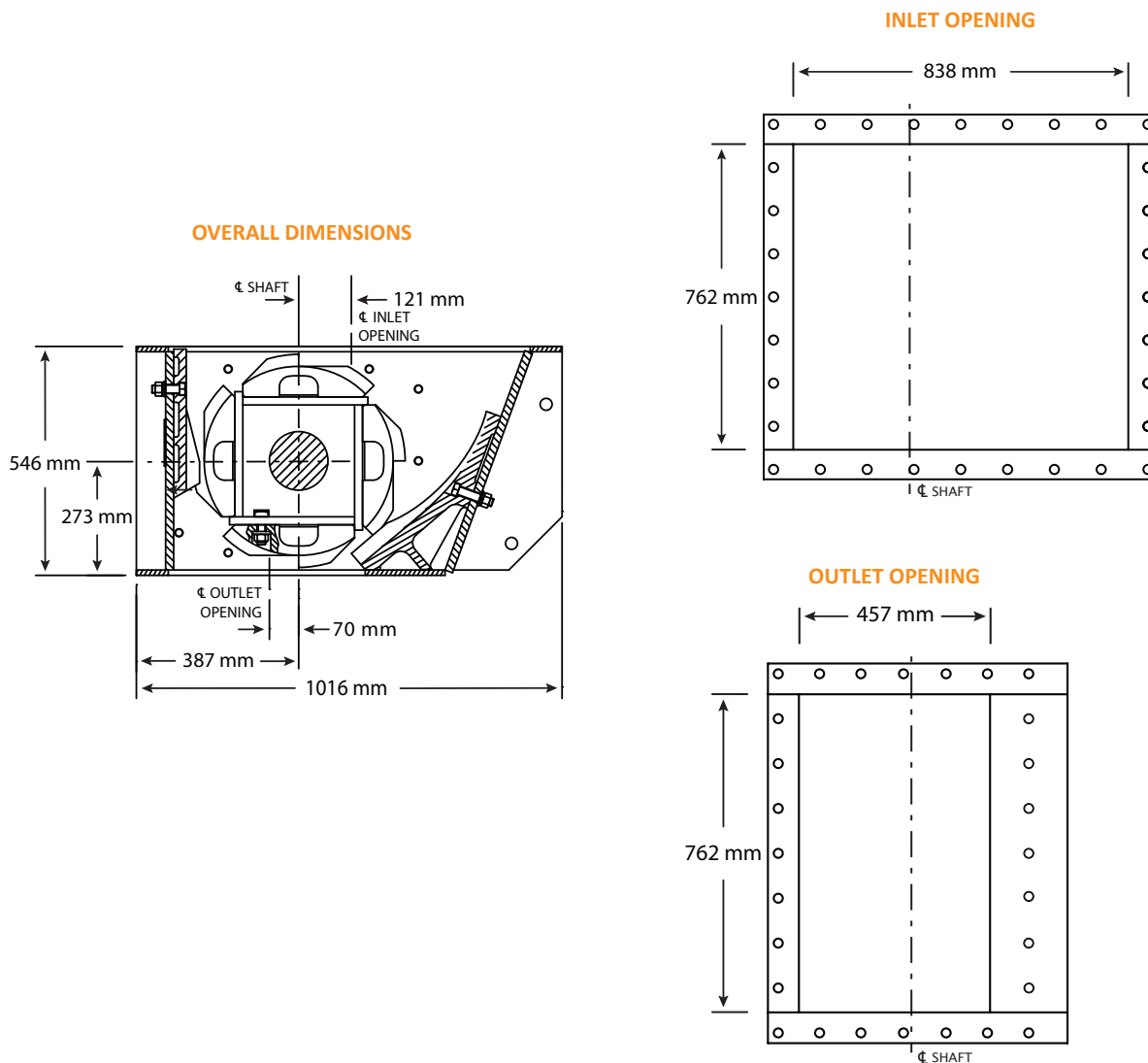
**DURITE H is 600 BHN Minimum*



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KEY DIMENSIONS



ORDERING INFORMATION

Crusher Type	Basic Assembly	Basic Assembly + Drive
Pillow-Block Bearing Style	5-2103-137	5-2113-409
Floating Seal Style (Wet Applications Only)	Contact UCC	Contact UCC

* 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.

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