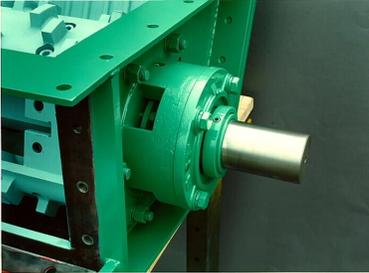
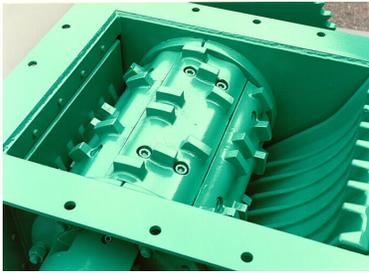


# Clinker Crusher

*Save energy and reduce wear!*



## Advantages

The Pennsylvania Crusher Clinker Crusher reduces bottom ash or clinker produced by boilers most commonly found in utility and industrial power plants. Its unique design represents a major improvement in technology and offers the following advantages over ordinary clinker grinders:

- Crushes without grinding – saving money and reducing wear
- Much greater reliability
- More powerful crushing action
- Faster, easier access for servicing – jams can be cleared while the unit remains in place
- Far less prone to leakage
- Stronger shaft design

### Direct Replacement for Current Equipment

Pennsylvania Crusher clinker crushers are available as direct replacements for nearly every make and model of crusher, including single and double-roll models. They can be interchanged with no fit-up problems or delays. In most cases, replacement of your existing equipment merely involves the unbolting and removal of your old unit and then bolting in the new Pennsylvania Crusher Clinker Crusher model.

### More Powerful Crushing Action

We've equipped the rolls with a special tooth pattern that has a greater number of crushing points – up to 18 tooth presentations per revolution! This delivers greater peak-crushing forces and provides the ideal clearance space needed to handle even the hardest clinker.

### Saves Energy and Reduces Wear

Because our clinker crusher does not grind the ash, it requires less energy, and it reduces the amount of wear on the crushing elements.

### Protection from Leaks

Our patented method of sealing minimizes the chance of leakage while increasing the crusher's availability.

### Shorter Downtime

Our hinged access door enables faster, easier inspection and service, plus reduces the amount of manpower required to inspect roll segments and to clear out jams. All of these tasks can be done through the door opening while the crusher remains in its normal operating position – a major savings in time and effort as other makes require the removal of the entire unit for these procedures.



## Construction

Our Series CGU, the replacement for single roll crusher models, is manufactured in 27x20, 33x30 and 54x43 sizes. Our Series CGA, designed as the replacement for double-roll crusher models, is offered in 2'-0", 2'10", and 3'-0" sizes.

Both series will reduce clinker to the required top size, which is normally 1-1/4" to 1-1/2" x 0". With both series you have the option of specifying carbon steel or stainless steel construction.

**Roll Shaft**—The roll shaft has a square cross section. This distributes torque better and enables the shaft to withstand deflection far better than ordinary shafts. It also prevents oval distortion of the packing area, a frequent occurrence with conventional designs.

**Roll Shell**—The roll shell, composed of six radial segments instead of the usual four, produces a much lighter segment, making it far easier to handle and install when replacement is required.

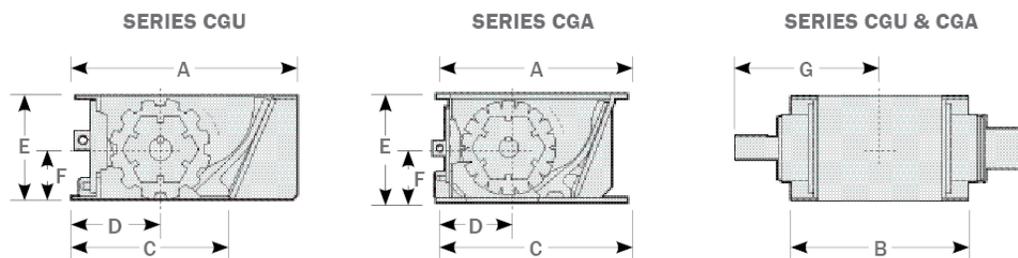
**Roll Segments**—Cast from the hardest available specialty alloy material, the roll segments are fully symmetrical, enabling them to be reversed at their half-life to ensure full use of their wear mass with no unnecessary waste of material.

**Bearing Mounts**—Bearings are flange-mounted in cast housings, minimizing shaft deflection and maximizing seal life.

**Bearings**—The bearings are protected from water seepage, eliminating another shortcoming found in others. By separating the bearings from the packing gland, water has a harmless pathway out of the unit. Grease or pressurized flush water can be used to prevent back-flow through the packing gland.

**Frame-Wear Protection**—The frame is equipped with hard alloy liners, mounted on the stationary end-plates and at each end of the roll. Additional side liners, cast from the hardest available specialty alloy material, are bolted on for easy replacement.

## Dimensions and Weights



IN (MM)		APPROXIMATE LAYOUT DIMENSIONS* AND SHIPPING WEIGHTS							
SERIES	SIZE	A	B	C	D	E	F	G	LBS (KG)
CGU	33 X 30	40" (1016)	37" (940)	29" (737)	15-1/4" (388)	21-1/4" (547)	10-3/4" (274)	29" (737)	3,950 (1,792)
CGU	54 X 43	50-1/2" (1283)	62-1/4" (1581)	34" (864)	18-3/4" (477)	32" (813)	16" (407)	46-1/4" (1175)	7,500 (3,402)
CGA	3'-0"	40" (1016)	46" (1169)	40" (1016)	15-1/4" (388)	22-1/2" (572)	11-1/4" (286)	40" (1016)	4,600 (2,087)

### GENERAL DATA

SERIES	SIZE	REPLACEMENT FOR	TYPICAL MOTOR	NOMINAL RPM
CGU	33 X 30	SINGLE ROLL	10 HP	16
CGU	54 X 43	SINGLE ROLL	15 HP	16
CGA	3'-0"	DOUBLE ROLL	15 HP	25

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