

Allen-Sherman-Hoff® PowerASH® Single-Roll Clinker Grinder for Bottom Ash Systems

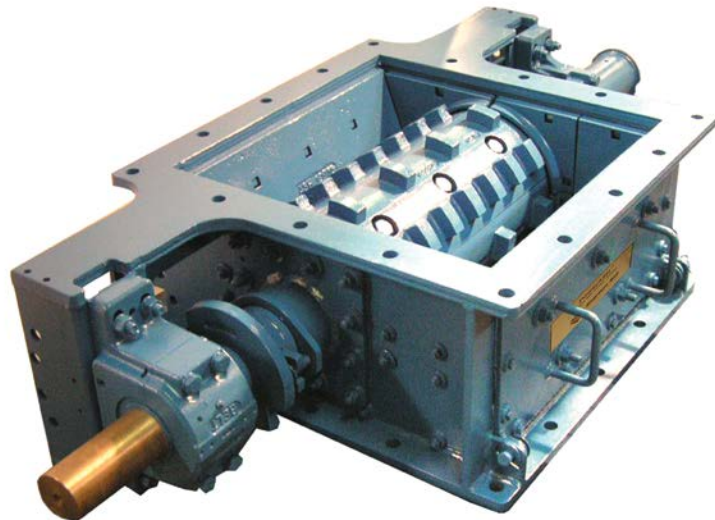
The Allen-Sherman-Hoff® PowerASH® single-roll clinker grinder, provided by Babcock & Wilcox (B&W), is designed to handle the highly abrasive bottom ashes generated by coal-fired boilers. Its high crushing force and unique roll tooth pattern make short work of the remaining larger slag falls.

Features

- Hardened internal components and wear resistant liners for increased service life
- Large anvil-side access door for clearing jams and replacing internal components (other designs must be removed for replacing internal wear parts)
- Replaceable/reversible roll segments for easy maintenance and extended life (just rotate and use them twice)
- Universal shaft and housing design for installation and relocation flexibility
- Three packing arrangements (braided, injectable or labyrinth seal) for low, lower, lowest seal maintenance



The distinctive roll tooth pattern of the PowerASH single-roll clinker grinder features a pocket design that captures even large chunks of ash and moves them into the grinder crushing zone.



PowerASH grinder

The PowerASH® single-roll grinder externally mounted pillow block bearings for easy maintenance.

Benefits

Higher crushing force

The drive components and shaft of the PowerASH single-roll grinder produce a higher crushing force with design capabilities up to 6000 lb (2720 kg). Output particle size is nominally under 0.75 in. (19 mm) leading to more reliable ash transferability.

Easier, less frequent operator attention

The PowerASH single-roll grinder crushes big, tough chunks of ash — its high torque design minimizes jams, and that means less operator attention. The modular design and easy access reduces maintenance hassles and make for easier grinder rebuilds. The single shaft design has just two support bearings, so there are fewer wear parts. In-place maintenance features (like the hinged side access door) allow for easy inspection and replacement of internal components significantly reducing maintenance costs.

Leak resistant

Numerous installations prove just how robust this single-roll grinder really is. Because there are only two shaft openings through the housing, there are fewer potential leak points than any double-roll grinder. Plus, our packing chamber arrangement and improved manufacturing tolerance factors allow for effective shaft sealing.

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Availability

Available in multiple grinder configurations: (1) as a drop-in replacement for A-S-H 2 ft and 2 ft - 10 in. grinders using your existing drive, and (2) as a grinder with self-contained drive. Our universal shaft and housing design is easily adapted to replace UCC® and other manufacturers' grinders. With 85 years of ash handling experience, let us show you how this single-roll grinder handles even the toughest ash. Contact your local B&W representative or call us at 1-888-ASH-PARTS (1-888-274-7278).

Specifications	
Assembly components	Roll, anvil, breaker plate and comb plate constructed of a high-chrome, cast iron material with a Brinell hardness of 600 minimum
Availability	For 2 ft (610 mm) and 2 ft - 10 in. (864 mm) double roll grinders Optional — adapter for drop-in retrofit of UCC and other manufacturers' grinders.
Drive sizes	10 - 15 hp — Integrally mounted motor reducer at 20 rpm or inline, separately mounted motor
Housing	½ in. (12.7 mm) thick side plates; ¾ in. (19 mm) thick inlet and outlet flanges
Packing	Three arrangement options: braided, injectable or labyrinth seal
Particle output	Nominal size is ¾ in. (19 mm) with 5% up to 2 in. (51 mm)
Roll segments	Replacement, bolt-on, high-chrome
Throughput	30 TPH PowerASH 24 50 TPH PowerASH 30 (based on 50 lb/ft³ ash @ 20 rpm)
Wear plates	Abrasion-resistant steel

Options Specifications Chart

Grinder Size	Drive Size	Drive Configuration	Packing	UCC Adaptor
PowerASH 24	<input type="checkbox"/> 10 hp	<input type="checkbox"/> Integrally mounted	<input type="checkbox"/> Braided	<input type="checkbox"/> Yes
		<input type="checkbox"/> Inline, separately mounted	<input type="checkbox"/> Injectable	<input type="checkbox"/> No
			<input type="checkbox"/> Labyrinth seal	
PowerASH 30	<input type="checkbox"/> 10 hp	<input type="checkbox"/> Integrally mounted	<input type="checkbox"/> Braided	<input type="checkbox"/> Yes
	<input type="checkbox"/> 15 hp	<input type="checkbox"/> Inline, separately mounted	<input type="checkbox"/> Injectable	<input type="checkbox"/> No
			<input type="checkbox"/> Labyrinth seal	

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Babcock & Wilcox supplies Diamond Power boiler cleaning and Allen-Sherman-Hoff ash handling equipment and systems.

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