



McLanahan Rotary Breakers are extremely suitable for scalping off undesirable materials and performing size reduction in a single operation. Primarily used in the coal industry, Rotary Breakers, known as GDAMs™ in the aluminum industry, also crush reclaimed cryolite/bath material while scalping out and rejecting unwanted metallic materials and carbon for reintroduction into their potlines.

SAFER

All guarding on McLanahan Rotary Breakers is designed in accordance with global safety standards to ensure operator safety. The breaker cylinder is covered by a fabricated steel, sectionalized dust housing that contains fugitive dust and is equipped with inspection doors to facilitate maintenance. Centrally banked lubrication lines allow operators to lubricate all bearings from one location. Rotary Breakers can also be provided with an optional inching drive that offers a safer means of rotating the cylinder for maintenance purposes.

SIMPLER

Rotary Breakers feature a single motor drive, low horsepower requirements and slow operational speeds, which result in minimal maintenance and low operating costs. A conventional breaker drive on a Rotary Breaker is simple and consists of a motor/coupling/reducer configuration with an attached drive sprocket powering a single strand engineering class chain to a large driven sprocket that is bolted to the machined circumference of the cylinder feed end. Rotary Breaker chute work at the feed and discharge ends is engineered to ensure a smooth transition of material in and out of the cylinder.

SMARTER

Rotary Breakers combine two processes in one machine – reduction and separation of uncrushable material. The tumbling action of the rotating drum lifts and drops the feed material repeatedly until friable feed material breaks down and exits the drum through screen plate perforations, while rock and other refuse move through the cylinder and are rejected at the discharge end. During the manufacturing process, McLanahan places the machine end sections onto a large lathe to machine the critical surfaces such as the tire bases and drive base, ensuring the drum is perfectly concentric and eliminating any chance of wobble or vibration during operation. Rotary Breakers also come with overlapping screen plates to protect the cylinder beams and provide additional structural support, as well as adjustable lifters to allow for advancing or hindering the flow of material through the machine.



Breaker cylinders are covered by dust housings to meet global safety standards.



Rotary Breakers are perfectly concentric, eliminating vibration.



Material is broken as the rotating drum lifts and drops feed material repeatedly.

Rotary Breakers

CAPACITIES IN TONS PER HOUR									
Breaker (Diameter x Length)	Product Size								
	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"
9' x 15'	278	376	471	486	500	514	572	640	858
9' x 18'	334	451	565	583	600	617	686	770	1,029
9' x 21'	390	526	660	680	700	720	800	900	1,200
11' x 18'	415	561	702	724	745	766	852	955	1,278
11' x 21'	484	654	820	844	869	894	994	1,115	1,491
11' x 24'	553	748	937	965	994	1,022	1,136	1,275	1,704
12' x 18'	497	671	841	867	892	918	1,020	1,145	1,530
12' x 21'	580	783	981	1,011	1,041	1,071	1,190	1,335	1,785
12' x 24'	663	895	1,122	1,156	1,190	1,224	1,360	1,530	2,040
12' x 27'	745	1,007	1,262	1,300	1,338	1,377	1,530	1,720	2,295

Rotary Breakers are also available in 14' and 16' diameters and longer lengths when required. All capacities shown are in short tons per hour.