

The Elgin CSI™ Rotary Breaker is designed to process feed materials such as coal, alumina, oil sands, aluminum dross and others for sizing classification.

Featuring dual or single end drives, Elgin's Rotary Breakers lift and drop feed material several times as it traverses through the drum to size the material and scalp undesirable material. The desirable sized material passes through the screen perforations and into the product hopper where it is collected for further processing or use. The undesirable material traverses through the breaker and out the discharge end where it is collected for disposal.

The simple design of a rotary breaker requires little maintenance, making it economical and easy to operate.

Features

- Available in dual or single end drive.
- Tires are manufactured from an endless ring forging.
- Trunnions are manufactured from high alloy steel.
- Spreader beams with stiffening gussets are machined to a common length and the end bell mounting pads are machined to a common height to decrease axial runout.
- Non-overlapping cast manganese or wear alloy breaker plates allow for independent replacement.
- Independent adjustable plows.
- Inline lifters to increase the volume of material lifted and processed through the drum.
- 3/8" thick steel sectionalized product hopper with access doors on both drive and non-drive sides with wear areas lined with wear alloy plate.
- Thrust rollers on the feed and discharge ends.
- Precision manufactured sprockets driven by ASME standard B29.10M-1997 with hardened teeth to increase life.



- 12' Diameter x 20', 24', 27', & 32' Long
- 10' Diameter x 16', 20', & 24' Long
- 9' Diameter x 15', 18', 21', & 24' Long



Rotary Breaker Coal Capacity Chart *

(Diameter x Length)	1-1/2" 38mm	2" 50mm	2-1/2" 63mm	3" 76mm	3-1/2" 89mm	4" 102mm	5" 127mm	6" 152mm	8" 203mm
9'x15' 2.7m x 4.5m	286 259	387 351	485 439	500 454	515 467	529 479	589 534	659 598	883 801
9'x18' 2.7m x 5.4m	344 312	464 421	581 527	600 544	618 560	635 576	706 640	793 719	1059 962
9'x21' 2.7m x 6.4m	401 364	541 491	679 616	700 635	721 654	741 672	824 747	927 841	1236 1119
10'x16' 3m x 4.8m	427 387	577 524	723 656	745 676	767 696	788 714	877 796	983 891	1316 1193
10'x20' 3m x 6m	498 452	673 610	844 766	869 788	895 811	920 835	1023 928	1148 1042	1535 1393
10'x24' 3m x 7.3m	569 516	770 698	965 875	993 901	1023 929	1052 954	1170 1060	1313 1191	1755 1592
12'x16' 3.6m x 4.8m	511 464	691 626	866 785	893 810	918 833	945 856	1050 952	1179 1069	1575 1429
12'x20' 3.6m x 6m	597 541	806 731	1010 916	1041 944	1072 972	1103 1000	1225 1112	1375 1247	1838 1667
12'x24' 3.6m x 7.3m	682 619	921 836	1155 1047	1190 1080	1225 1112	1260 1143	1400 1269	1575 1428	2101 1905
12'x27' 3.6m x 8.2m	767 696	1037 940	1299 1179	1339 1215	1378 1250	1418 1286	1575 1429	1771 1606	2363 2144

Top numbers are short tons per hour, bottom are metric tons per hour.

Tonnages are based upon 50 lbs. per cubic foot coal

* This chart is meant only to be a general guide. Many other factors such as HGI, feed lump size, flow chart, etc., must be taken into account prior to sizing a rotary breaker. Please always call Elgin and discuss your project with a rotary breaker specialist in order to confirm your rotary breaker selection.



CUSTOMIZATION

Elgin engineers will design our chutes and covers to match the individual needs of your project.



PRECISION ALIGNMENT

Elgin utilizes state of the art technology to precision align the trunnions on all our rotary breakers.



WORLDWIDE EXPERIENCE

Elgin CSI Rotary Breakers have been shipped and installed at mines and factories around the world.