

TYPE RMD BRADFORD BREAKER

The Type RMD is a roller mounted breaker which accepts run of mine coal from the slope belt or, in the case of strip mines, from a truck dump hopper via a feed chute which protrudes directly into the open end of the breaker.

0000

DIAMETER AND LENGTH	TYPE RMD ROLLER MOUNTED BRADFORD BREAKER – APPROXIMATE LAYOUT DIMENSIONS AND SHIPPING WEIGHTS WITH CASING							APPROXIMATE SHIPPING
	A	В	С	D	/E	DOOD D	LO.G.CC	POUNDS
9' x 12'	18' — 6"	13' – 1"	5' – 3"	6' – 7"	4' - 0"	4' – 10"	15' – 4"	50,000
9' x 16'	22' – 6"	13' – 1"	5' – 3"	6' – 7"	4' – 0"	4' - 10"	19' – 4"	59,000
9' x 20'	26' – 6"	13' – 1"	5' – 3 "	6' – 7"	4'-0"	4' - 10"	23' – 5"	69,000
9' x 24'	30' – 6"	13' – 1"	5' – 3"	6' – 7"	4'-0"	4' - 10"	27' – 5"	78,000
12' x 16'	23' – 4"	15' – 5"	6' – 4"	7' – 8"	5' – 4"	6' – 2"	19' – 6"	86,000
12' x 20'	27' – 5"	15' – 5"	6' – 4"	7' – 8"	5'-4"	6' – 2"	23' – 6"	98,000
12' x 24'	31' – 6"	15' – 5"	6' – 4"	7' – 8"	5'-4"	6' – 2"	27' – 7"	111,000
12' x 28'	35' – 6"	15' – 5"	6' – 4"	7' – 8"	5' – 4"	6' – 2"	31' – 7"	122,000
14' x 20'	27' – 8"	17' – 9"	7' – 9"	8' – 10"	7' – 11"	8' - 8"	23' – 7"	141,000
14' x 24'	32' – 5"	17' – 9"	7' – 9"	8' – 10"	7' – 11"	8' - 8"	27' – 7"	163,000
14' x 28'	36' – 5"	17' – 9"	7' – 9"	8' – 10"	7' – 11"	8' – 8"	31' – 8"	182,000
14' x 32'	41' – 5"	17' – 9"	7'- 9"	8' – 10"	7' – 11"	8' – 8"	35' – 8"	198,000



FREE HANDBOOK OF CRUSHING

To obtain your free copy, log on to http://www.penncrusher.com/order_online.cfm



The Most Choices, The Most Experience

Pennsylvania Crusher Corporation 600 Abbott Drive • Box 100 • Broomall, PA 19008-0100 USA Phone: 610-544-7200 • Fax: 610-543-0190 See our web site: **www.penncrusher.com** E-mail: buster@penncrusher.com



The Most Choices, The Most Experience

BRADFORD BREAKERS





BRADFORD BREAKER

The Pennsylvania® Bradford Breaker performs simultaneous sizing and cleaning of ROM coal and is widely used at mines and coal prep plants. Introduced by Pennsylvania Crusher in the early 1900s, this design has undergone important improvements while retaining its ability to size run-of-mine coal while simultaneously removing debris.

The ability of individual Pennsylvania Bradford Breakers to provide decades of reliable service has helped make them the most widely accepted breakers in use. In fact, units over sixty-years old are in regular service today.

DEPENDABILITY

Maintenance costs are surprisingly low. Pennsylvania Bradford Breakers function for decades with few servicing requirements other than periodic lubrication and inspection. Because of their rugged design, downtime is rare, eliminating any need for back-up machines.

SIZE & CLEAN SIMULTANEOUSLY

A Pennsylvania Bradford Breaker consists of a large rotating cylinder powered by an electric motor through a reducer drive and chain. As coal is fed into one end, it falls to the low side of the cylinder; sized coal exits quickly through the sizing holes of the screen plate.

Unsized coal is lifted by a series of shelves affixed to the screen plates. As these shelves are lifted upwards and pass through a given angle near the top of the arc, the coal slides off and impacts against the bottom screen plates.

Repeated lifting and dropping continues until the coal is sized and exits through the screen plate. Since this is gravity impact, breakage occurs along natural cleavage fractures so there is very little production of fines.

Cleaning occurs simultaneously because any material that resists breakage, such as rock. slate, tramp iron or timber, is retained within the cylinder. Internal deflectors, together with the lifting shelves, are angled so as to induce such material to flow to the far end of the cylinder. At that point an integral plow directs it out of the cylinder onto a refuse belt or pile.

PRECISION COMBINED WITH **ROBUST DESIGN**

In a breaker, cylinder strength is most important. We obtain maximum cylinder strength and rigidity by overlapping the screen plates, by drilling close-tolerance bolt holes with numerically-controlled equipment, and by using high strength bolts. This is an improvement over older designs made of cast plates which cannot be precisely machined and must be ground by hand. Also, our T-beams provide maximum rigidity but are less prone to build up and corrosion. For maintenance, they afford far easier access to the screen plate bolts than the H-beams used by others.

The drive assembly is uncomplicated and trouble-free, allowing the use of a single, normal starting-torque motor. Because of the great strength of our cylinder, it is driven from only one end. This eliminates the need for an additional jack shaft to balance torque and to drive both ends of the cylinder.

Most important is the method by which our screen plates are fabricated and mounted. These are lap mounted and double bolted, giving them great strength and rigidity. The plates are produced on numerically-controlled equipment with such precision as to be fully interchangeable throughout the cylinder. This also enables them to be retrofitted more easily in the field with no troublesome fit problems.

We offer several shapes of sizing holes including a self-cleaning design that minimizes plugging.



COMPREHENSIVE SUPPORT SERVICES

We offer installation supervision and training. Also, every breaker is supported by a highly responsive parts and service team. When ordering parts, the most current design will be provided. We can also tailor a service or re-supply program to your needs; just ask your Pennsylvania representative or contact the company.

APPLICATION CRITERIA

Your completion of our Crusher Application Analysis form will enable us to determine which crusher models and sizes are best suited to vour application.. This form is part of our "Handbook of Crushing", page 8. Simply print out that page, complete the form, and return to Pennsylvania Crusher Corporation, attn: Application Engineering. To print this form, log on to http://www.penncrusher.com/order_online.cfm

