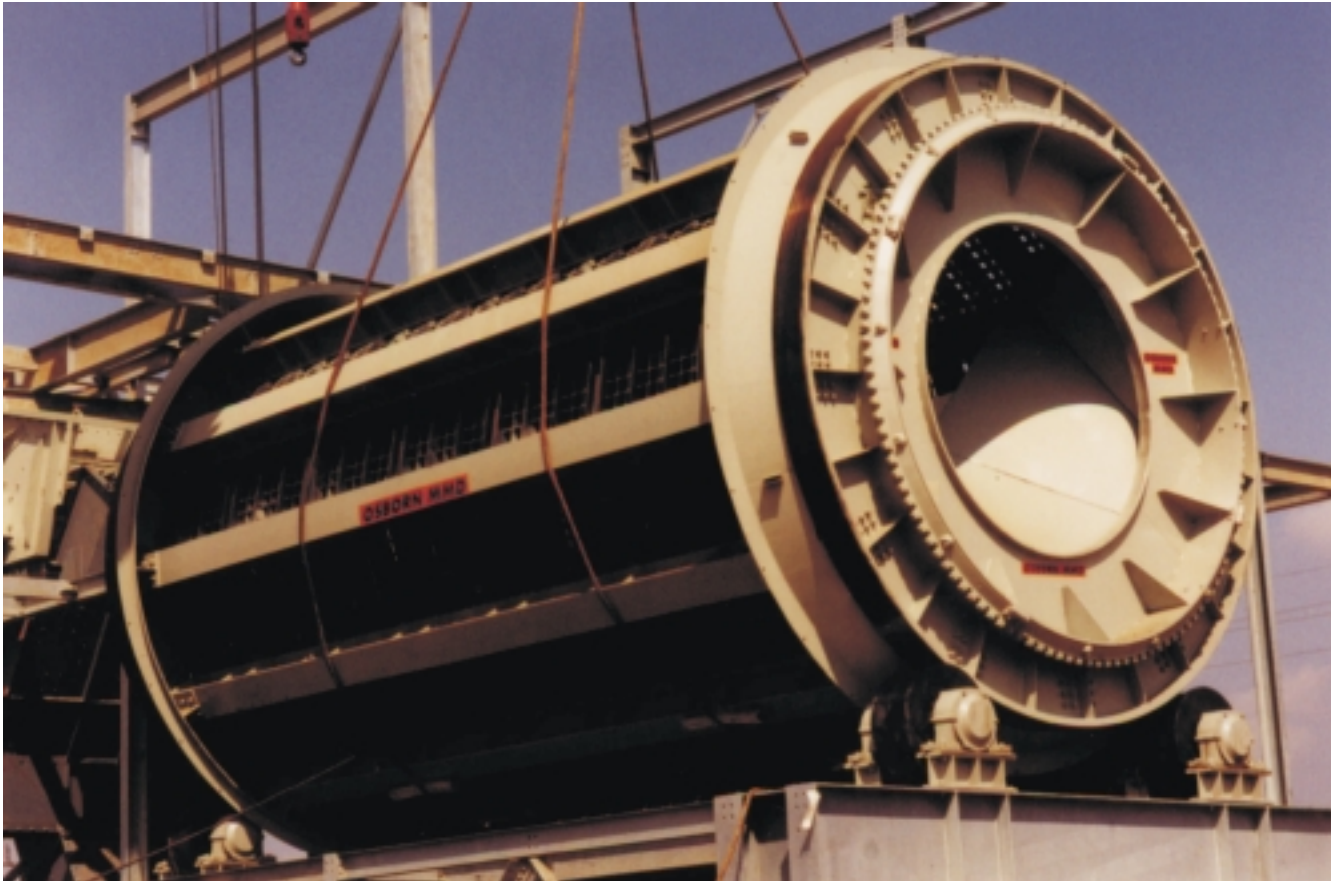


**OSBORN**

Engineered Products SA (Pty) Limited  
Shaping Materials Handling

An Astec Company

## Osborn Rotary Breaker

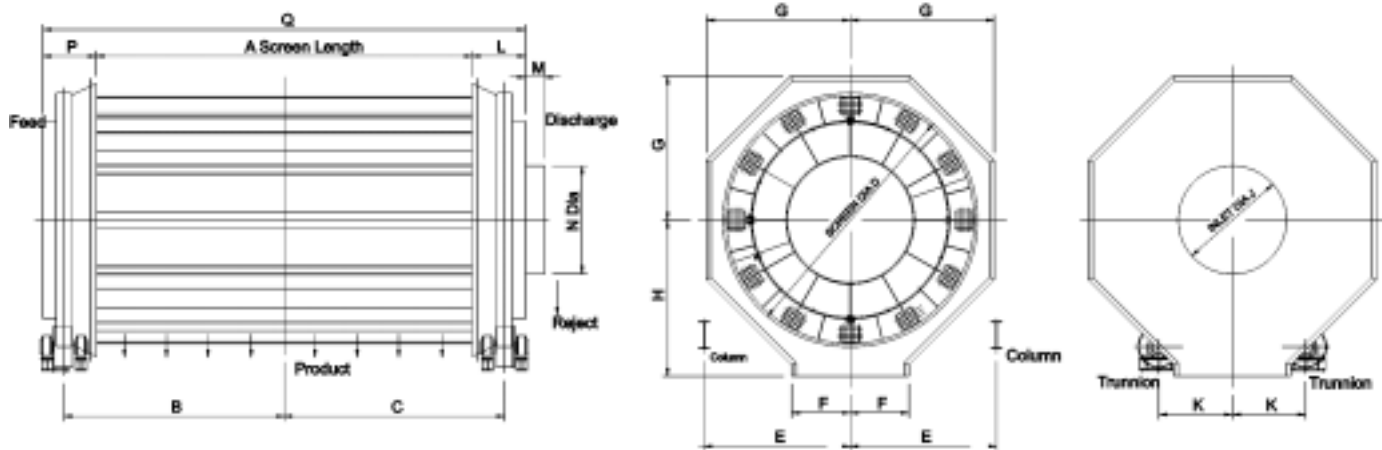


For efficient breaking and cleaning of run-of-mine on primary crushed coal

- Coal is continuously fed into the breaker feed chute and is repeatedly raised by lifters and dropped until it is broken to size and falls through the grids or screen plates. Large unbroken pieces, mainly rocks, are discharged through the outlet end by a scoop assembly.
- Breakers are robustly constructed for 24 hour operation.
- Two types are available. The **Osborn** unit with dual chain drive or the Hadfields unit driven by conventional girth gear and pinion as used on grinding mills.
- Breakers are supported on four steel rollers with alloy steel tyres, which ensure maximum life and trouble free operation.
- Screen plates can be cast with circular holes or the "Hadfields", patented fabricated type manufactured from a variety of abrasion resistant materials. These fabricated plates give maximum open area, high impact and coal breaking efficiency.
- The **Osborn** chain drive unit is manufactured in four sizes with approximate throughputs ranging from 750 to 1500 TPH. The Hadfield gear driven model is manufactured in three sizes giving throughputs of 500 to 1600 TPH.
- Dust proof housings are supplied with all units.

## Hadfield / Osborn Coal Breakers

Approximate Typical Dimensions



OSBORN TYPE CHAIN DRIVEN	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
1020	5084	3050	3050	3200	3000	1040	2250	2340	2134	1076	960	150	1524	980	6860
1024	6284	3650	3650	3200	3000	1040	2250	2340	2134	1076	960	150	1524	980	8060
1227	6858	4115	4115	3700	3000	1345	2438	2949	2133	1127	1060	150	1270	1050	8850
1328	7278	4330	4330	4167	2800	650	2800	4000	2438	1422	1035	150	2438	1035	9348
HADFIELDS TYPE GIRTH GEAR & PINION															
3.0 x 4.5	4500	3005	2745	3000	1900	994	2020	1950	1500	860	680	150	1230	910	6090
3.0 x 6.7	6740	4165	3905	3000	2550	994	2020	1950	1500	860	720	150	1230	950	8410
4.2 x 9.0	8970	4845	5250	4200	2500	1500	2620	2550	2100	1017	1000	150	1750	1000	11385

**Osborn. Designers and manufacturers of bulk materials handling and minerals processing plant and equipment.**

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Ref No: 1-CRB-2001