BROWN LENOX KUE-KEN CONE CRUSHERS CUT PRODUCTION COSTS

They are cheaper to maintain and give the widest range of product size.

- *The Brown Lenox Kue-Ken Cone crusher provides an automatic choice as the secondary or tertiary crushing partner to Kue-Ken's number one primary – the jaw crusher.*
- *The Kue-Ken Cone crusher is essentially a gyrating cone swinging on the true apex of gyration.*
- *Design is simple with only one major moving part which is its most important feature and the principle on which it operates.*
- *Kue-Ken Cone crushers are specifically designed to operate in a precise gyratory arc, minimising operating costs by eliminating ineffective rubbing action of the crushing faces and reducing power usage.*
- *This 'crushing without rubbing' principle is shown in Figure 1.*

Figure 1. Crushing without rubbing

The fulcrum (pivot) point **A** is located along line **AB** to precisely bisect the parallel zone **B**.

The main frame is indicated as **C** and the concave ring as **D**.

Therefore, when the crusher head **E** swings – or gyrates, the crushing in the critical parallel or sizing zone **B** – is at right angles to the line **AB**.

The result is a straight line – *hence true compression with up and down rubbing eliminated.*

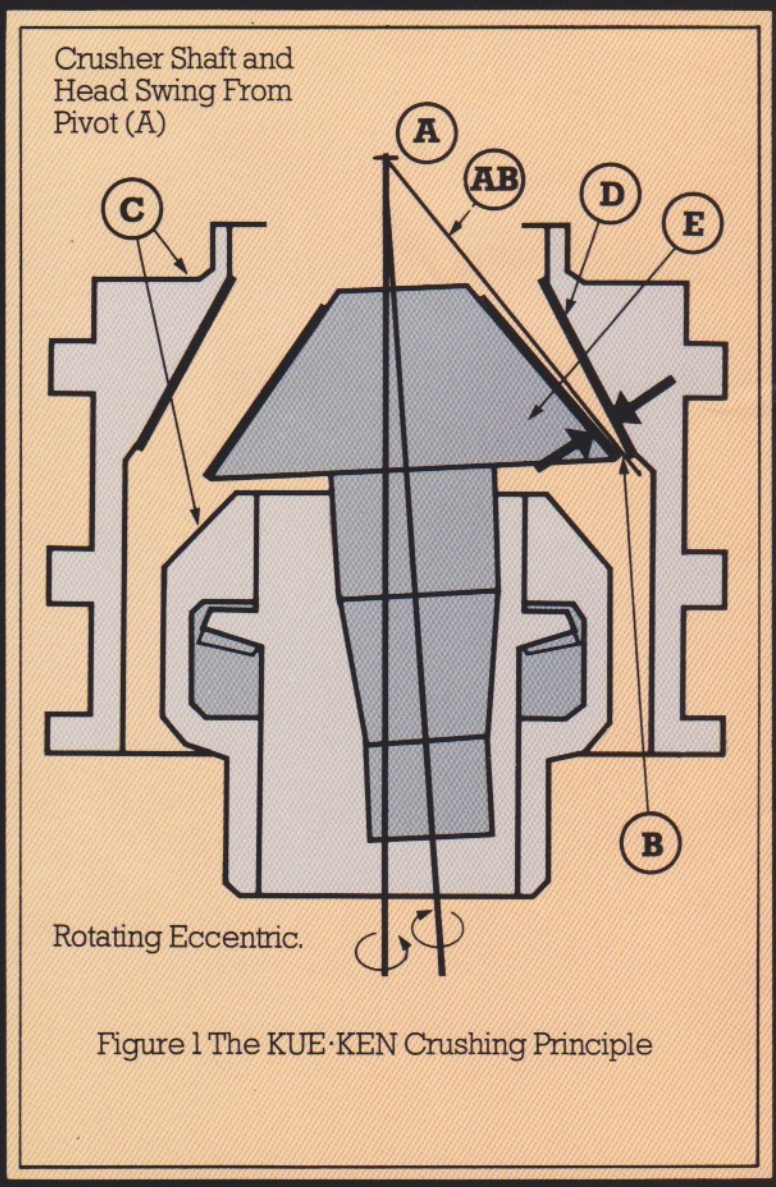


Figure 1 The KUE·KEN Crushing Principle

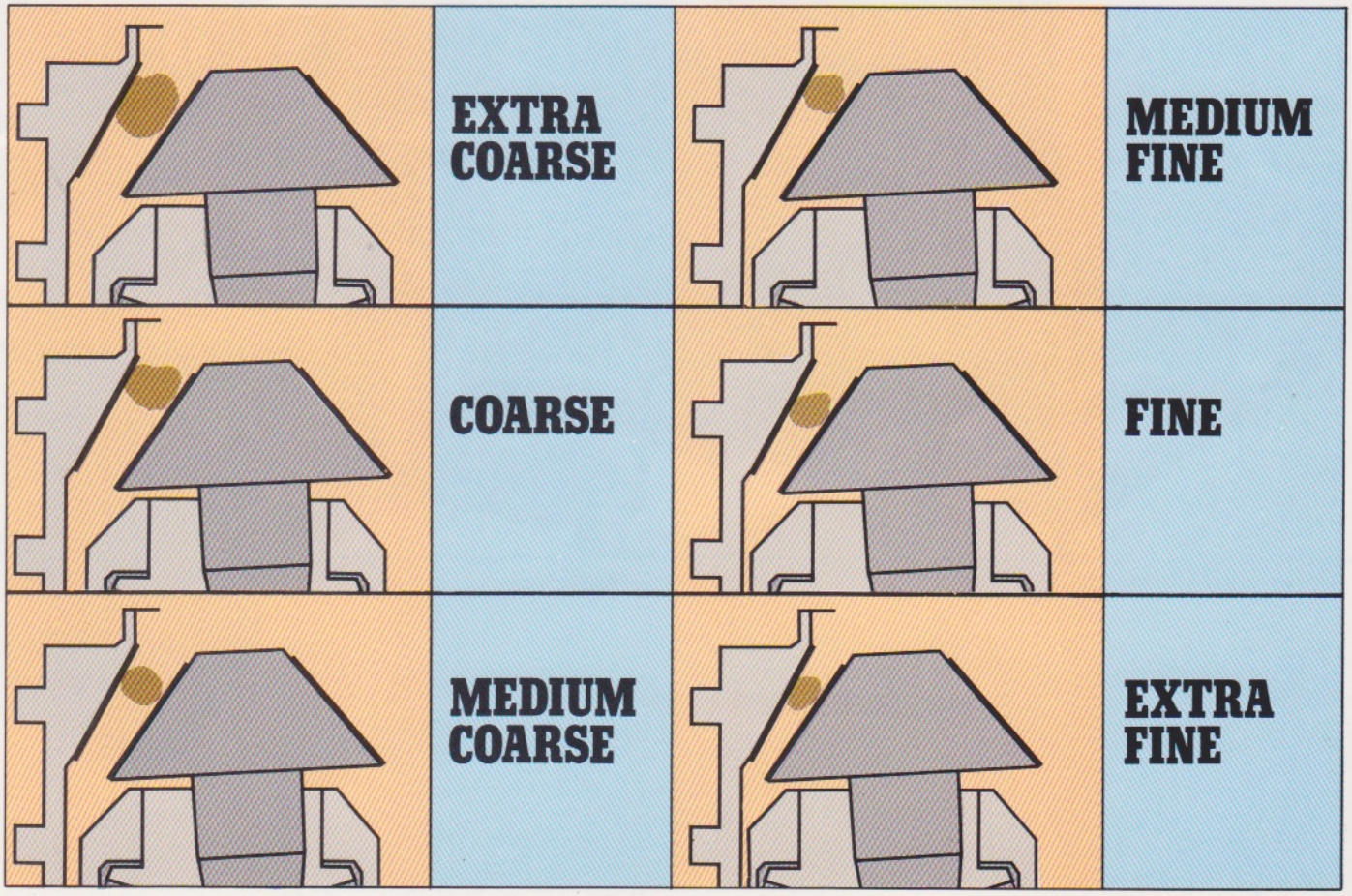
Brown Lenox offer a wide selection of secondary or tertiary KUE-KEN cone crushers for coarse or fine crushing of hard, abrasive materials.

Based on years of experience operating around the world, the Brown Lenox KUE-KEN cone gives continuous high performance in the toughest conditions.

The Brown Lenox KUE-KEN cone crusher is available in three sizes – 750, 1000 and 1300 and each size is available with a choice of six mantle and concave liners giving a wide application range from extra coarse to extra fine crushing, as illustrated below.

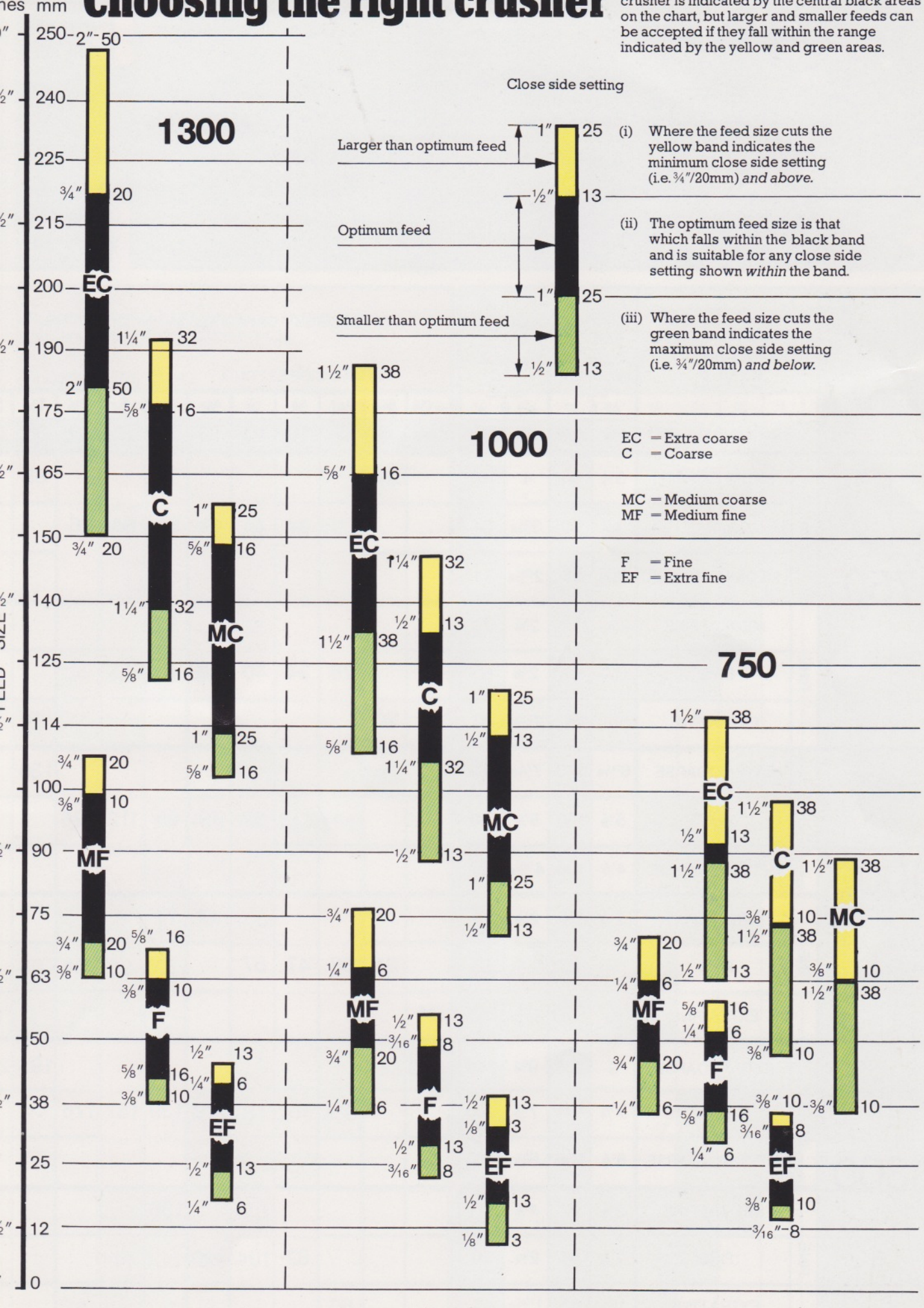
COARSE SERIES

FINE SERIES

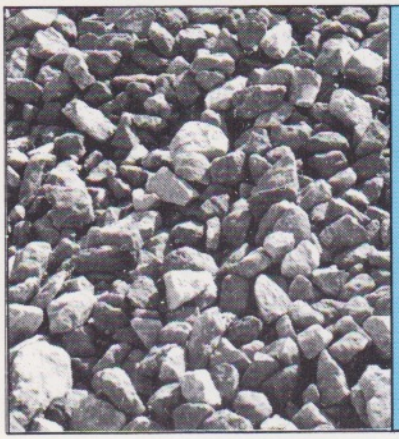


Choosing the right crusher

The optimum range of feed sizes for each crusher is indicated by the central black areas on the chart, but larger and smaller feeds can be accepted if they fall within the range indicated by the yellow and green areas.

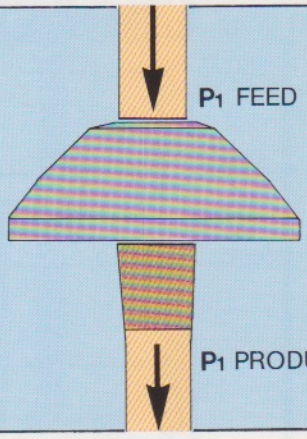


CAPACITIES...



Capacities shown are in Tonnes per hour and are based on clean, dry, graded material having a bulk density of 100 lbs per cubic foot (1600 kg per cubic metre). Capacities are subject to variation depending on feed gradation, moisture content, friability and method of feed.

OPEN CIRCUIT

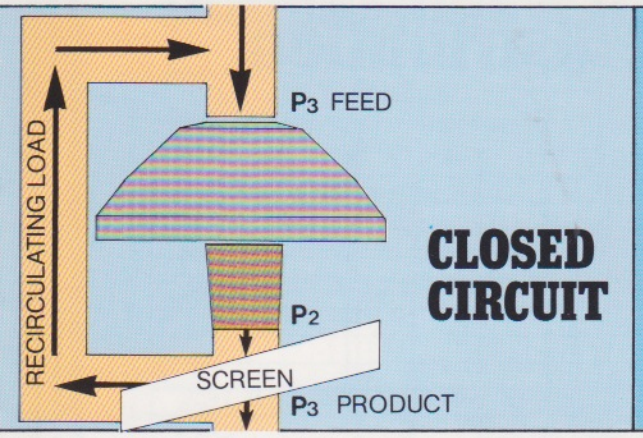


CRUSHER SIZE:– NOMINAL HEAD DIAMETER IN mm		BOWL STYLE	FEED OPENINGS AT MINIMUM CLOSED SIDE SETTING 'S'			
			CLOSED SIDE A		OPEN SIDE B	
			ins	mm	ins	mm
750	COARSE	EXTRA COARSE	3½	90	4	102
		COARSE	2¾	70	3 5/16	84
		MEDIUM COARSE	2 3/16	56	2 13/16	71
	FINE	MEDIUM FINE	2 1/16	52	2¾	70
		FINE	1 11/16	43	2⅜	60
		EXTRA FINE	¾	19	1 7/16	37
1000	COARSE	EXTRA COARSE	6 11/16	170	7 7/16	189
		COARSE	5⅛	130	5⅞	150
		MEDIUM COARSE	4¼	108	4 15/16	125
	FINE	MEDIUM FINE	2⅛	54	2⅞	73
		FINE	1 5/16	33	2 3/16	56
		EXTRA FINE	7/16	11	1 7/16	37
1300	COARSE	EXTRA COARSE	9	230	9¾	248
		COARSE	7¼	184	7⅞	200
		MEDIUM COARSE	6⅛	156	6⅝	168
	FINE	MEDIUM FINE	3⅝	92	4⅜	111
		FINE	2⅛	54	2¾	70
		EXTRA FINE	1 1/16	27	1 13/16	46

OPEN CIRCUIT CAPACITIES (P_1) IN TONNES/HR.

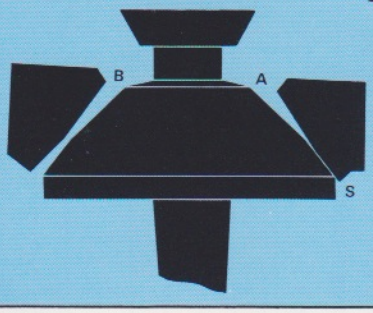
CLOSED SIDE SETTING

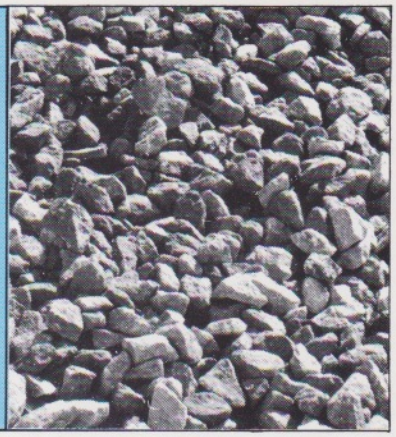
ins	1/8	3/16	¼	⅜	½	⅝	¾	1	1¼	1½	2
mm	3	5	6	10	13	16	19	25	32	38	51
750										85	
				34	44	49	54	64	75		
							52				
			26	34	40	46					
		20									
1000										139	
					69	79	99	112	126		
						67	77				
		31	38	47	57						
	21										
1300										193	229
						119	139	157	176		
							136				
				87	104	120					
			60								



CLOSED CIRCUIT

Capacities shown are at closed side setting 'S'. The table shows the recommended minimum and maximum Closed Side Settings.





CLOSED CIRCUIT CAPACITIES (P_2) TONNES/HR.
FEED PLUS RECIRCULATING LOAD

CLOSED SIDE SETTING

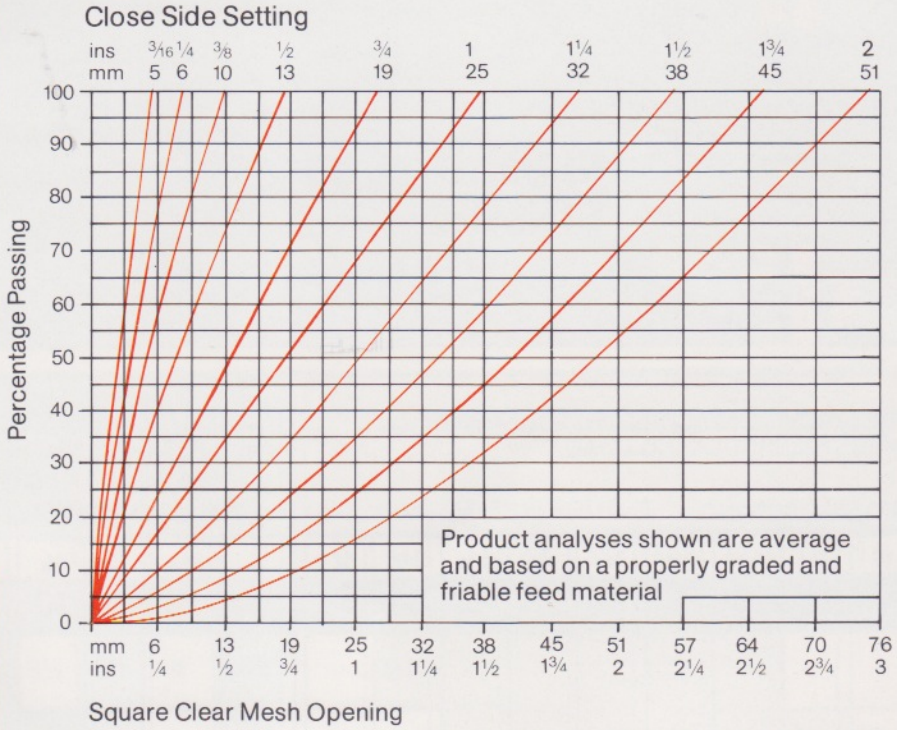
1/8	3/16	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
3	5	6	10	13	16	19	25	32	38	51
									118	
			44	57	64	70	86	102		
						68				
		34	45	53	60					
	25									
									182	
				90	109	130	147	164		
					87	100				
	40	49	62	75						
26										
									252	300
					156	181	205	230		
						178				
			114	136	157					
		78								

CLOSED CIRCUIT CAPACITIES (P_3) IN TONNES/HR
NETT PRODUCT PASSING A SCREEN OPENING EQUAL TO THE CLOSED SIDE SETTING OF THE CRUSHER

CLOSED SIDE SETTING

1/8	3/16	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
3	5	6	10	13	16	19	25	32	38	51
									70	
			34	42	46	49	56	64		
						47				
		26	34	39	43					
	20									
									109	
				67	79	91	95	103		
					63	70				
	31	38	47	56						
21										
									151	168
					113	126	133	145		
						124				
			87	102	114					
		60								

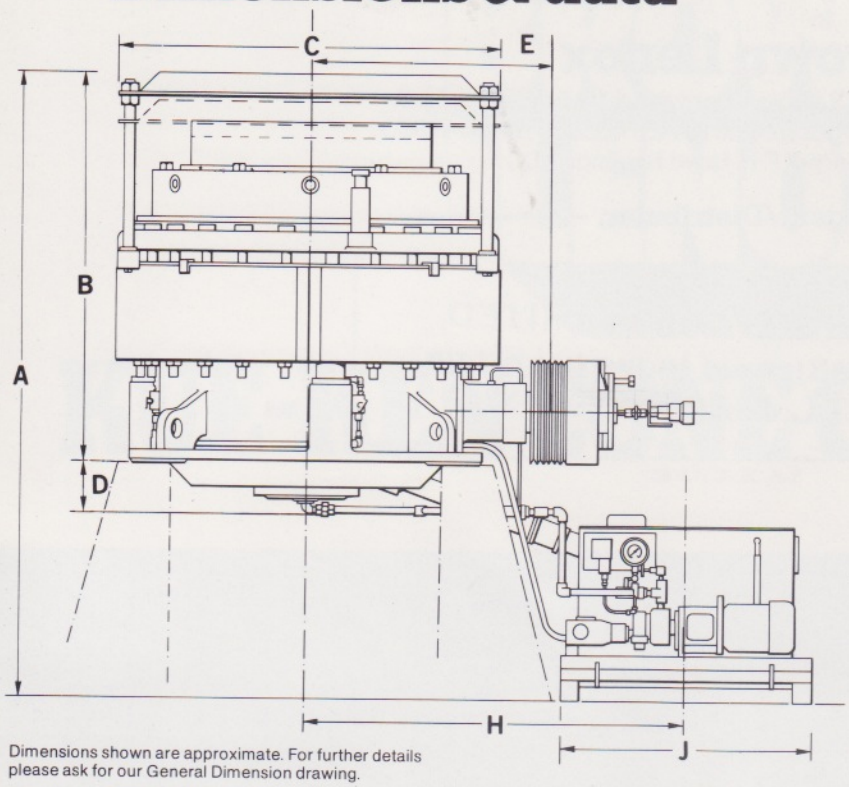
Product distribution

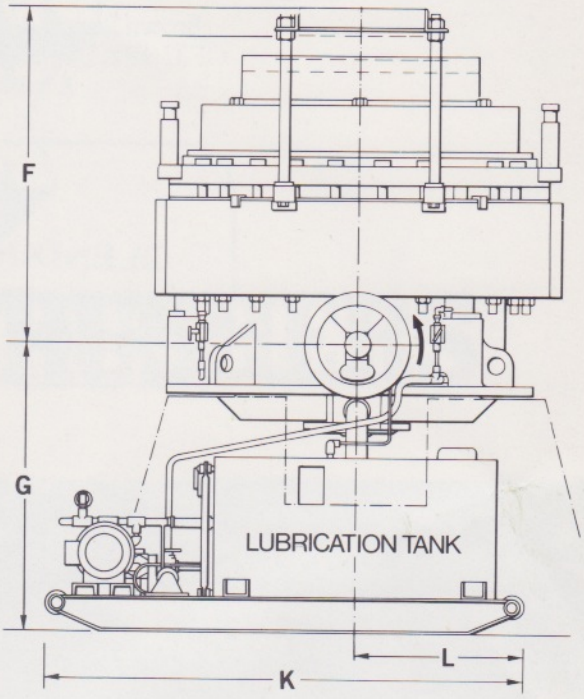


Aggregate Test Laboratory . . .

Most plant recommendations are based on the test crushing of customers' material under laboratory conditions.

Dimensions & data





Dimensions shown are approximate. For further details please ask for our General Dimension drawing.

	750		1000		1300	
	ins	mm	ins	mm	ins	mm
A	98¾	2508	107	2718	127½	3239
B	59¾	1518	65⅛	1654	79½	2019
C	57⅞	1470	65⅜	1660	87⅝	2226
D	8½	216	9	228	16	406
E	37 13/16	960	41	1041	54	1372
F	52	1321	56⅝	1438	70	1778
G	46¾	1187	50⅜	1280	57½	1460
H	60	1524	66½	1689	86	2184
J	42	1067	42	1067	42	1067
K	81	2057	81	2057	81	2057
L	28⅝	727	28⅝	727	28⅝	727

		750	1000	1300
HORSE POWER	hp	50 – 60	75 – 100	150 – 175
	kw	37 – 45	55 – 75	110 – 132
RPM CRUSHER PULLEY		1075 – 1150	900 – 936	928 – 951
PULLEY DIAMETER	ins	17	17	20
	mm	432	432	508
PULLEY BELT GROOVES		4 – SPB	6 – SPC	8 – SPC
CRUSHER – NETT WEIGHT TONNES		5.65	8.66	20.36
LUBRICATION TANK – NETT WEIGHT TONNES		0.71	0.71	0.71