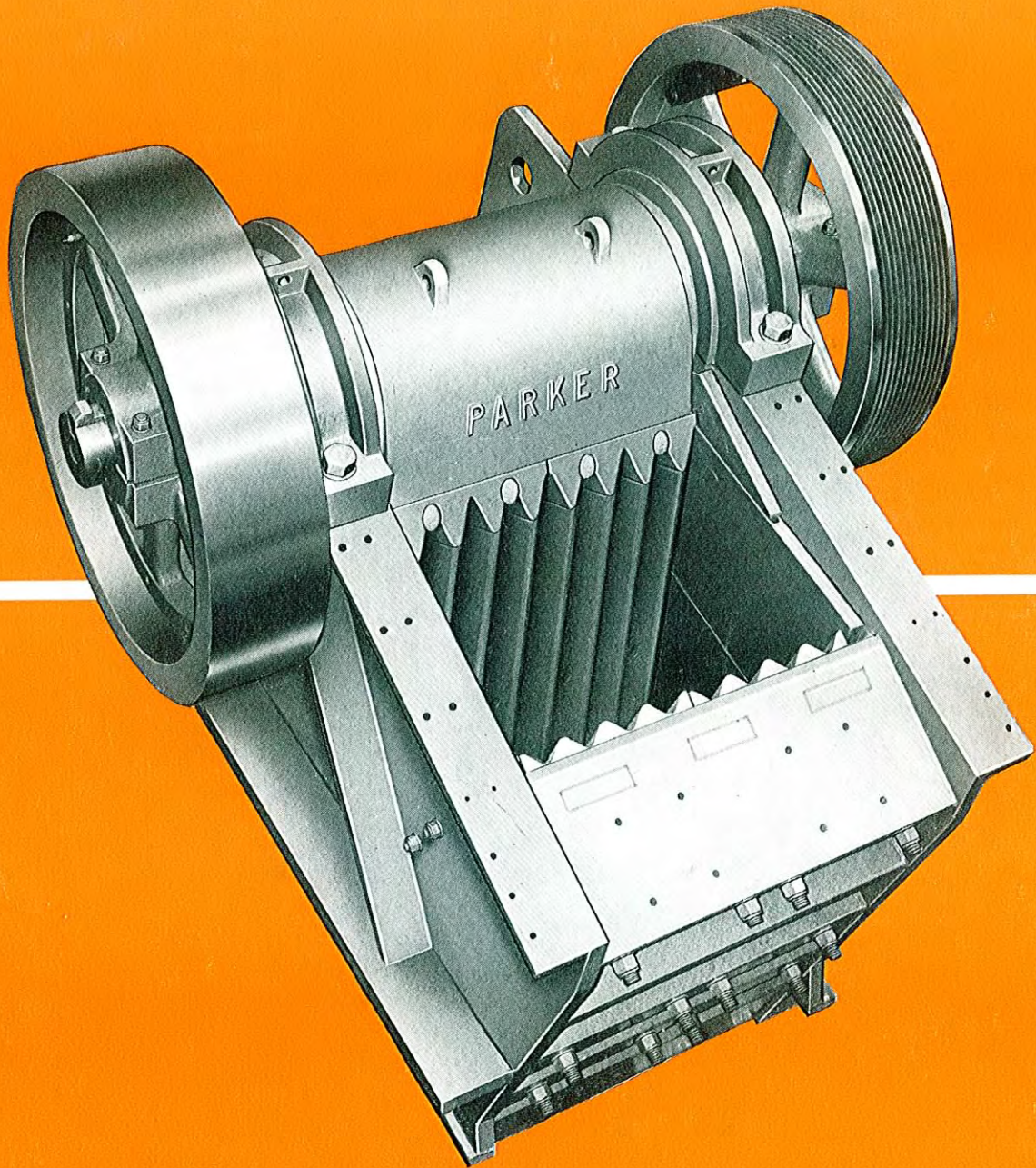


Parker 'ROCK-SLEDGER'



**SINGLE TOGGLE
ROCK CRUSHERS**

50" x 36" - 42" x 32"

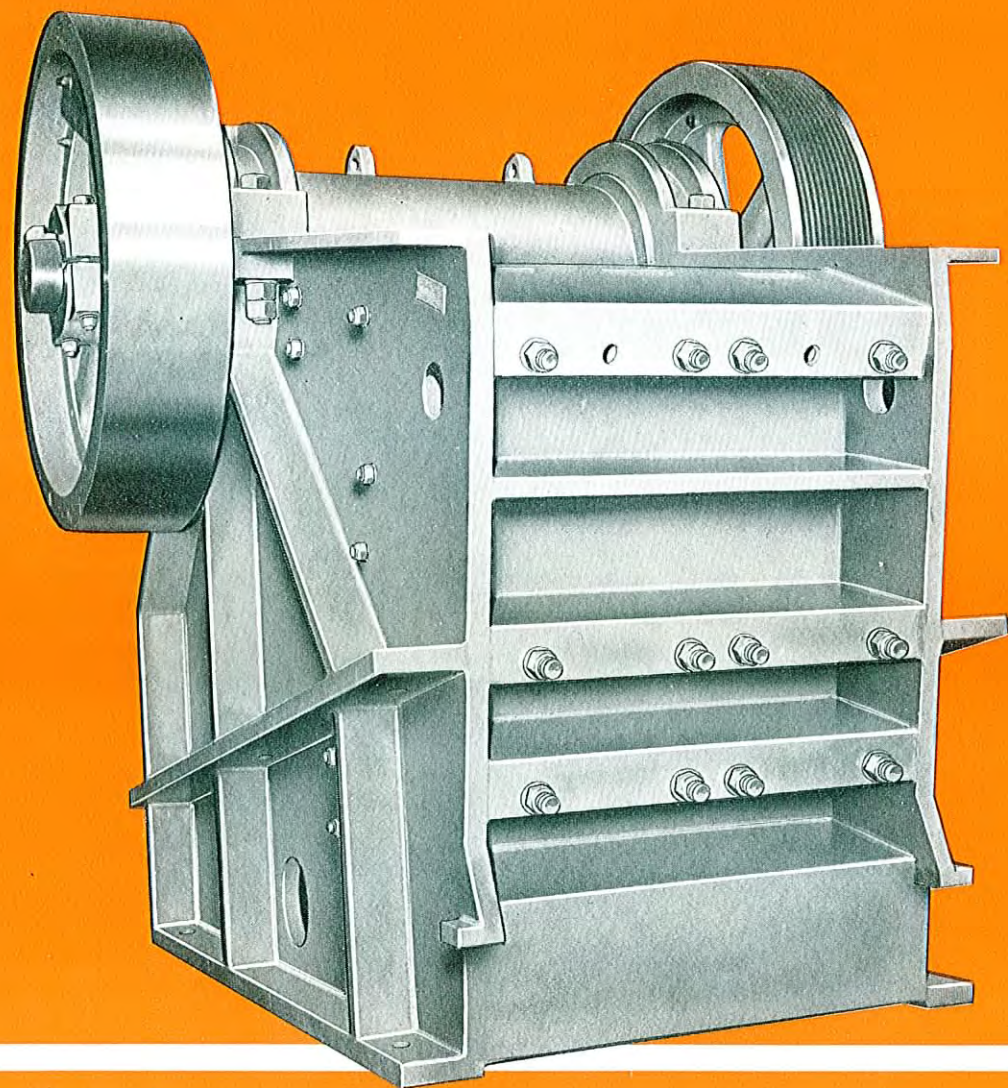


Illustration No. 1

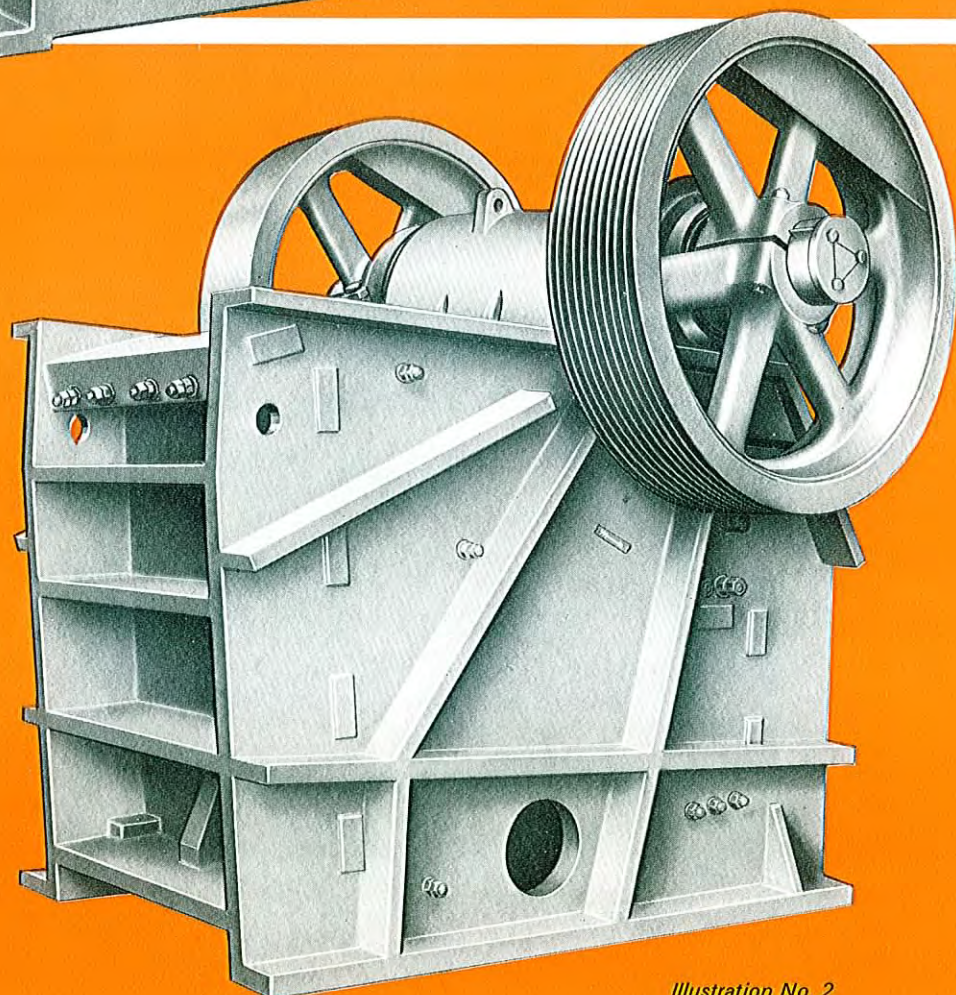


Illustration No. 2

Parker 'ROCK-SLEDGER'

Parker 'Rock-Sledger' crushers, sizes 42 in \times 32 in (1067 \times 813 mm) and 50 in \times 36 in (1270 \times 914) are single-toggle downthrust crushers. All features have been designed to produce an extremely strong crusher of the highest quality, and construction is carried out with fine engineering craftsmanship. The steel body is a fully stress-relieved one-piece fabrication and the eccentric shaft is mounted in grease-lubricated, self-aligning spherical roller bearings.

Size 42 in \times 32 in accepts a maximum cube size of 30 in (762 mm) and the discharge setting can be from 8 in (203 mm) maximum to 4 in (102 mm) recommended minimum. The hourly capacity at an 8 in setting is up to 310 tonnes (340 short tons: 195 m³) at 100% crush.

Size 50 in \times 36 in accepts a maximum cube size of 34 in (864 mm) and the discharge settings can be from 10 in (254 mm) maximum to 5 in (127 mm) recommended minimum. The hourly capacity at a 10 in setting is up to 570 tonnes (627 short tons: 355 m³) at 100% crush.

Outputs at other settings for both crushers, a sieve analysis and dimensions are given on pages 5 and 6.

single toggle rock crushers

THE BODY

This is a fully stress-relieved all-welded steel fabrication with these features:

- Single plate wall with external side stiffening webs.
- Machined on the groove block seating and bored to accept the side bearings.
- The steel housings for supporting the side bearings are welded into the body.
- The top caps over the side bearings are easily removed to enable the jawstock with shaft assembly to be lifted out complete.

ECCENTRIC SHAFT

A high quality forged steel shaft, fully machined, and with ground finish on all bearing mounting surfaces.

JAWSTOCK

Strongly constructed from cast steel with deep webbing to give great strength with reasonable lightness. The face which receives the swing jaw and the groove which receives the toggle plate are machined to ensure an accurate fit and good alignment.

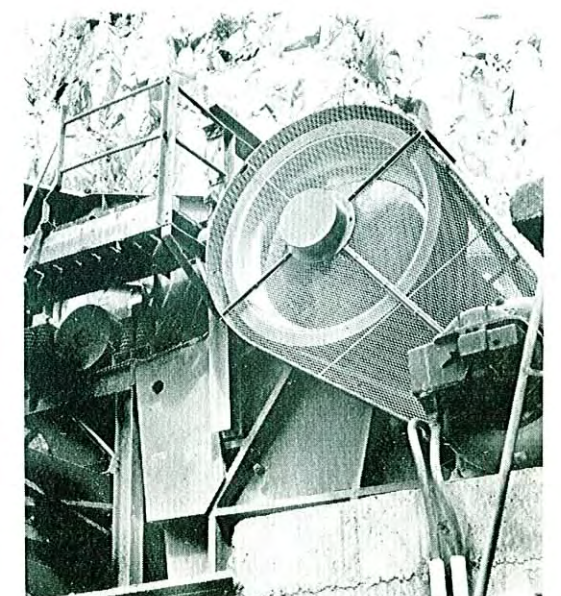


Illustration No. 3

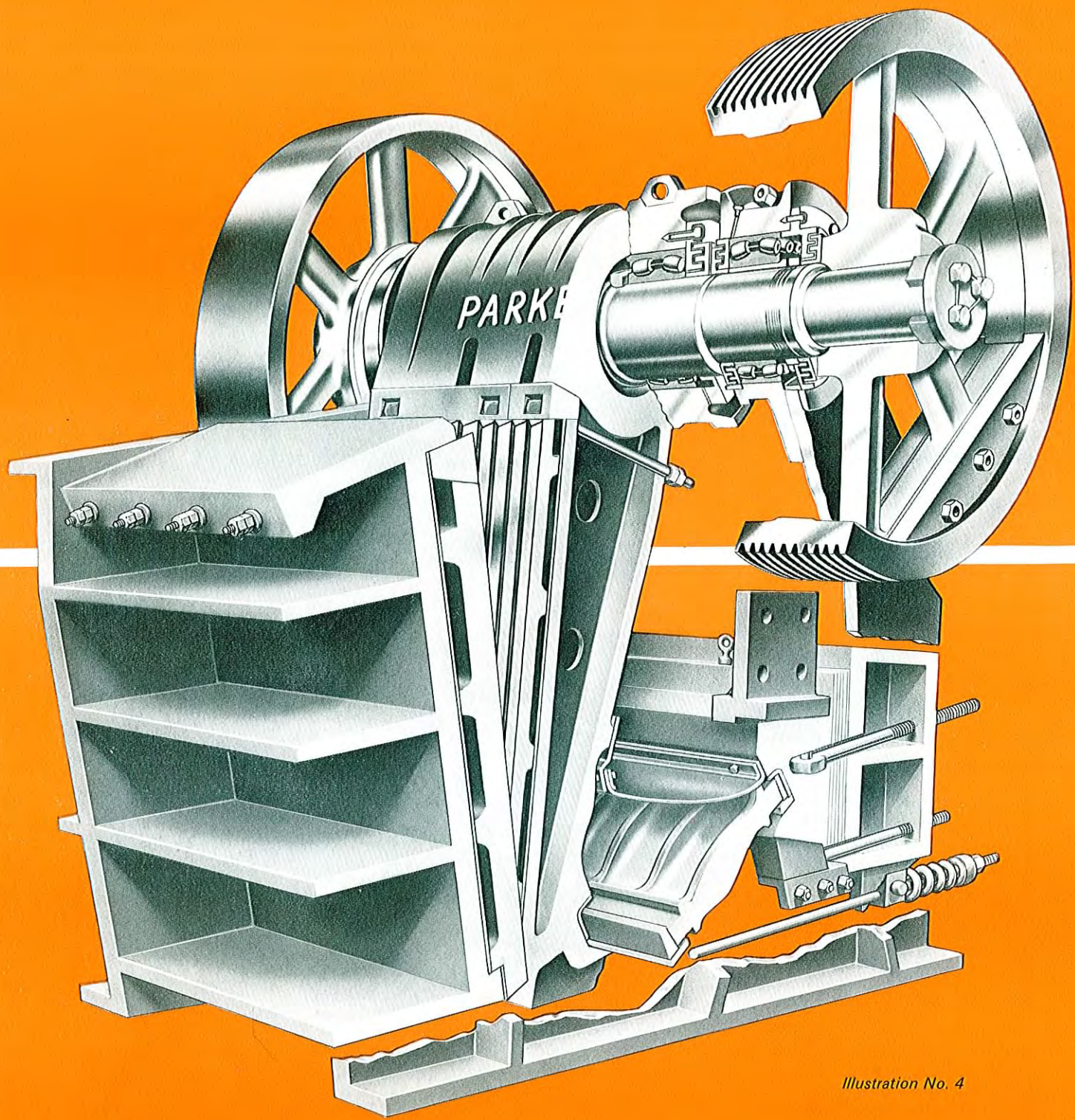


Illustration No. 4

JAW STOCK AND BODY BEARINGS

Self-aligning spherical roller bearings are fitted. They are grease lubricated and protected against the entrance of grit and dirt by rechargeable grease-filled labyrinth seals. The jaw stock bearing is shrunk on to the eccentric shaft, which is drilled for oil injection to assist when removing the bearings when required.

The body bearings are mounted in taper withdrawal sleeves and within separate cartridge type housings which incorporate grease valves to prevent over-greasing the bearings.

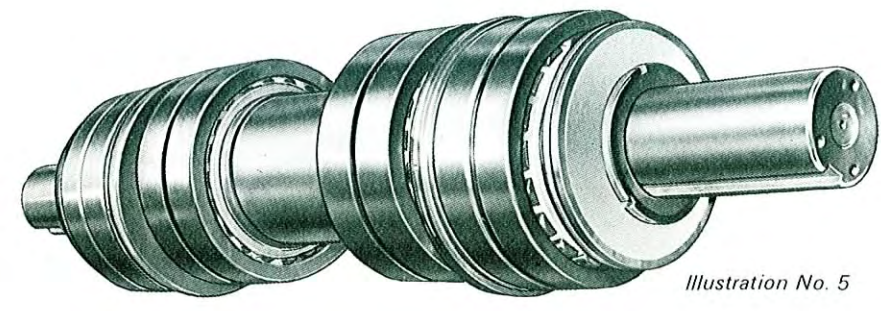


Illustration No. 5

TOGGLE PLATE AND GROOVE BLOCK

The toggle plate is a high quality iron casting with the ends machined to a segment of a circle to minimise rubbing and reduce wear. Renewable hardened carbon strips mounted in folded steel frames, are fitted to the jawstock groove and groove block.

A renewable dust cover protects the toggle plate and seatings.

“ROCK-SLEDGER”

CRUSHING CHAMBER

Both fixed and swing jaws are toothed manganese steel castings with equal cross sections along the length of the jaw. Made in one piece for size 42 in. x 32 in. and in four sections (interchangeable side for side) for size 50 in. x 36 in. Recessed lugs support the jaws which are held in position by bolt secured wedges at the top of the jaws. The wedges are cast in manganese steel and toothed to form part of the jaw face. Lining the chamber sides are renewable manganese steel wearing plates bolted into position.

CHANGING JAW SETTINGS

Adjustments to jaw settings are carried out by adding or removing shim plates of varying thickness behind the machined cast steel groove block. The groove block is adjusted by a hydraulic ram with hand-operated pump.

FLYWHEELS

Interchangeable large diameter flywheels are fitted. One is grooved for V-rope drive. They have split bosses and are clamped to the shaft.

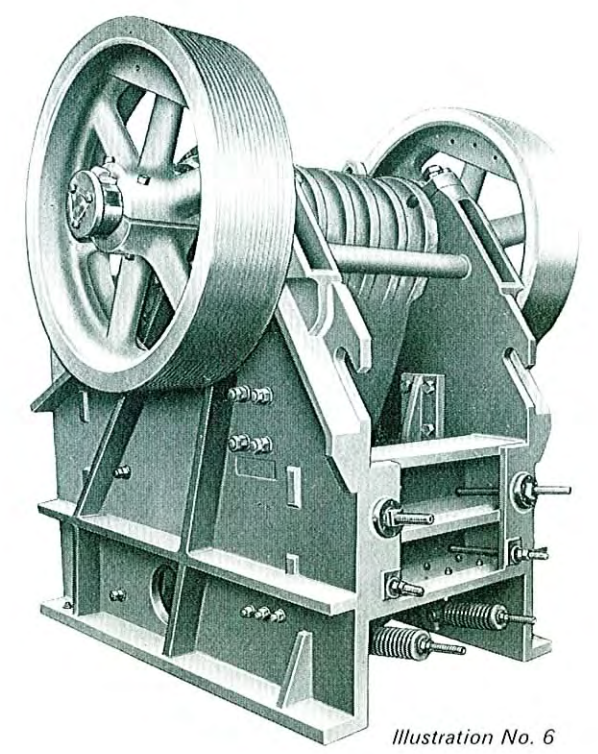
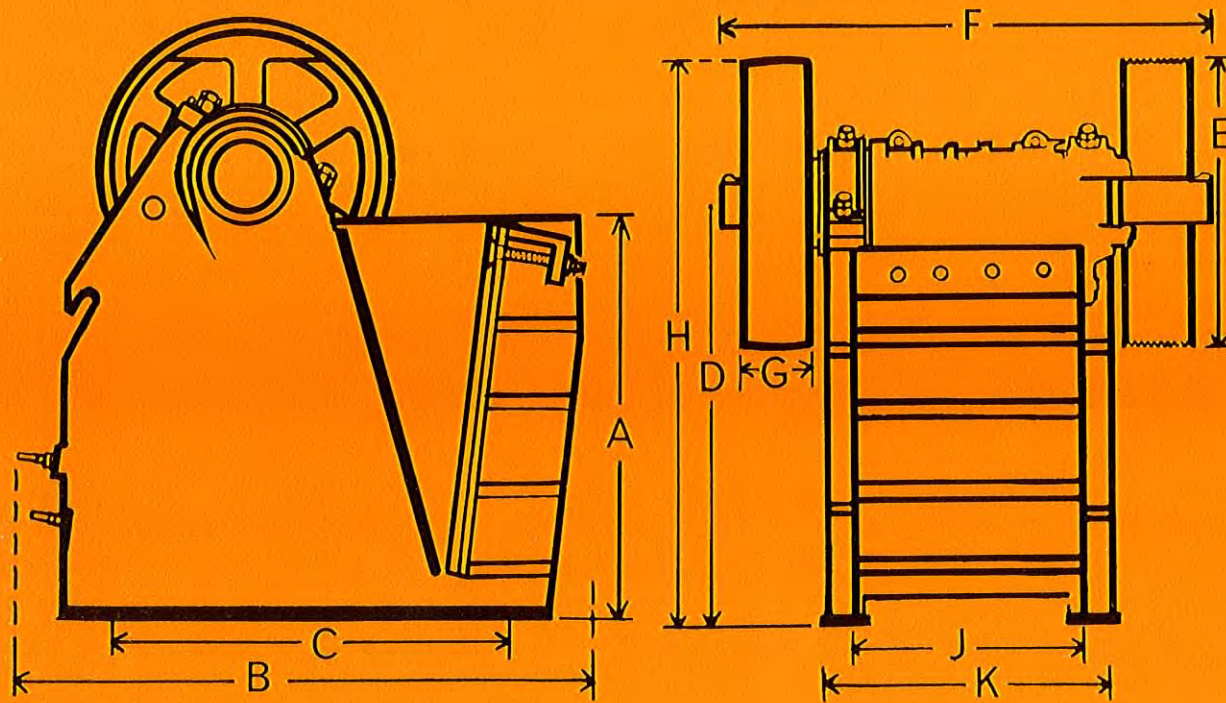


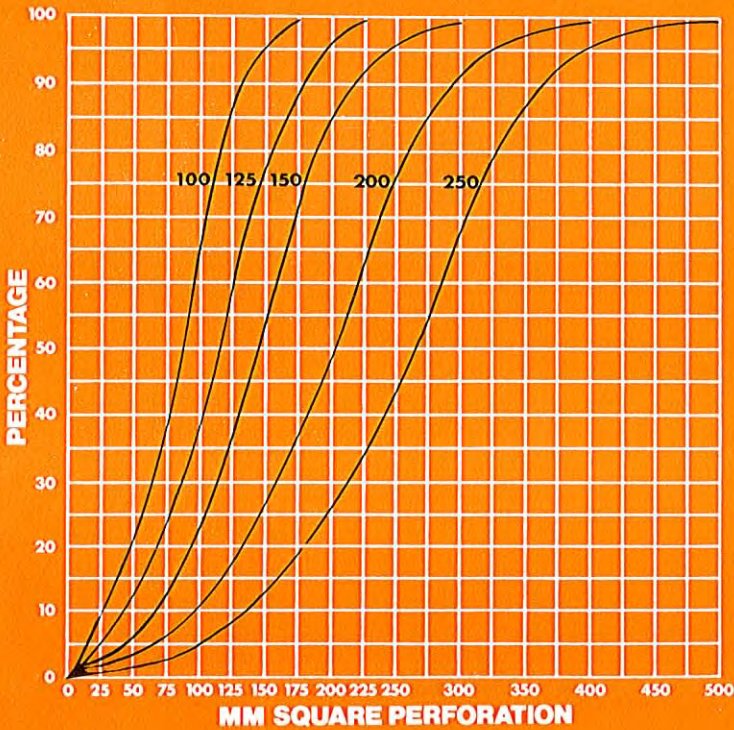
Illustration No. 6

outputs data & dimensions

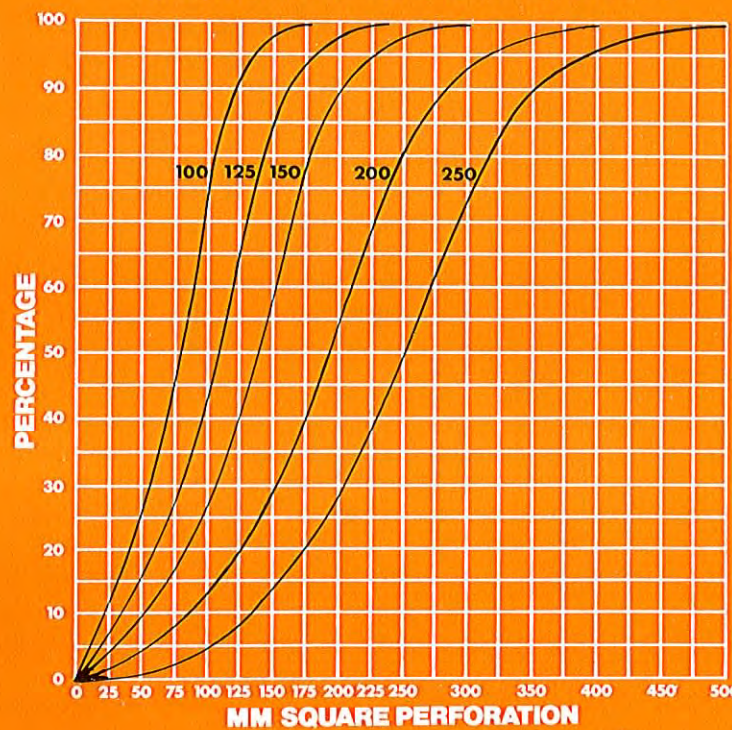


sieve analysis

HARD ROCK, GRANITE, WHINSTONE ETC



LIMESTONE AND MEDIUM HARD ROCK



APPROXIMATE HOURLY CAPACITIES AT 100% CRUSH

Size of crusher		4 in. (102 mm) setting			5 in. (127 mm) setting			6 in. (152 mm) setting			8 in. (203 mm) setting			10 in. (245 mm) setting			
ins.	mm	tonnes	short tons	m ³	tonnes	short tons	m ³	tonnes	short tons	m ³	tonnes	short tons	m ³	tonnes	short tons	m ³	
42	32	1067-813	100-125	110-140	63-79	140-175	155-195	88-110	175-220	195-245	110-140	250-310	275-340	157-195			
50	36	1270-914				200-250	220-275	125-156	255-315	280-347	159-196	365-450	402-495	227-280	475-570	523-627	298-355

The above capacities are based on crushing a hard homogeneous and compact limestone having a crushing strength between 23,000 and 30,000 lb. per square inch, and for a continuous feed of material with 100% larger than the jaw setting and at least 25% less than twice the jaw setting. The jaw setting is measured with the jaws in the closed position. Allowance must be made for a percentage of the product being larger than the discharge opening. Tonnes 2,200 lb; short tons 2,000 lbs; cubic capacities are based on 100 lb per cubic foot.

DATA

Size of crusher		Maximum cube feed size		Maximum jaw setting		Minimum recommended jaw setting		Power to drive		Shaft speed	Diameter and face width of flywheel		No. and size of vee ropes	Approximate weight							
in.	mm	in.	mm	in.	mm	in.	mm	Kw	h.p.	r.p.m.	in.	mm		tonnes	lb.	kilos					
42	32	1067	813	30	762	8	204	4	102	110	150	200/225	61	15½	1550	384	14	7/8" D section	27	59,400	26,945
50	36	1270	914	34	864	10	254	5	127	150	200	200/225	67½	15	1715	381	12	SPC	36½	80,300	36,424

APPROXIMATE DIMENSIONS

Size of crusher		A		B		C		D		E		F		G		H		J		K			
in.	mm	ft. in.	m	ft. in.	m	ft. in.	m	ft. in.	m	ft. in.	m	ft. in.	m	ft. in.	m	ft. in.	m	ft. in.	m	ft. in.	m		
42	32	1067	813	6 6	1.98	9 8	2.95	7 11	2.41	7 5	2.26	5 1	1.55	9 0	2.74	1 3	0.38	9 11	3.02	4 9	1.45	5 3	1.60
50	36	1270	914	7 2	2.18	11 9	3.58	8 0	2.44	7 11	2.41	5 7	1.70	9 10	3.00	1 3	0.38	10 9	3.28	5 6	1.68	6 1	1.85

All machines supplied in accordance with our Standard Conditions

100mm (4 ins) JAW SETTING

Material	Percentage passing B.S. Sieve (square perforations)										
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
	-10	+10	+10	+30	+40	+50	+75	+100	+125	+150	+175
Hard rock, Granite, whinstone, etc.	5	4	4	4.5	5.5	19	27	20	8	3	
Limestone and medium hard rock	7	4	4.5	5	5.5	21	29	17	5.5	1.5	

125mm (5 ins) JAW SETTING

Material	Percentage passing B.S. Sieve (square perforations)										
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
	-10	+10	+20	+30	+40	+50	+75	+100	+125	+150	+175
Hard rock, Granite, whinstone, etc.	3	1.5	2.5	3	3.5	12	16	20.5	19	11.5	7.5
Limestone and medium hard rock	4	3	3	3.5	4	11.5	16	22	19	8	6

150 mm (6 ins) JAW SETTING

Material	Percentage passing B.S. Sieve (square perforations)										
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
	-20	+20	+40	+50	+75	+100	+125	+150	+175	+200	+250
Hard rock, Granite, whinstone, etc.	2.5	2	2	8	10.5	14	17	18	12.5	10	3.5
Limestone and medium hard rock	4	4	2	7	11	14	18	20	10.5	7.5	2

200 mm (8 ins) JAW SETTING

Material	Percentage passing B.S. Sieve (square perforations)										
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
	-25	+25	+50	+75	+100	+125	+150	+175	+200	+225	+250
Hard rock, Granite, whinstone, etc.	1.5	2	3.5	4.5	6.5	10	10	12	14	14	6
Limestone and medium hard rock	2	2.5	3.5	5.5	7	9	11.5	15	14	12	4.5

250 mm (10 ins) JAW SETTING

Material	Percentage passing B.S. Sieve (square perforations)										
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
	-50	+50	+75	+100	+125	+150	+175	+200	+225	+250	+300
Hard rock, Granite, whinstone, etc.	1	1.5	2.5	3.5	4.5	6	7	8.5	10	25.5	18
Limestone and medium hard rock	1	1.5	2.5	4	5	7	8	10	12	24	15.5