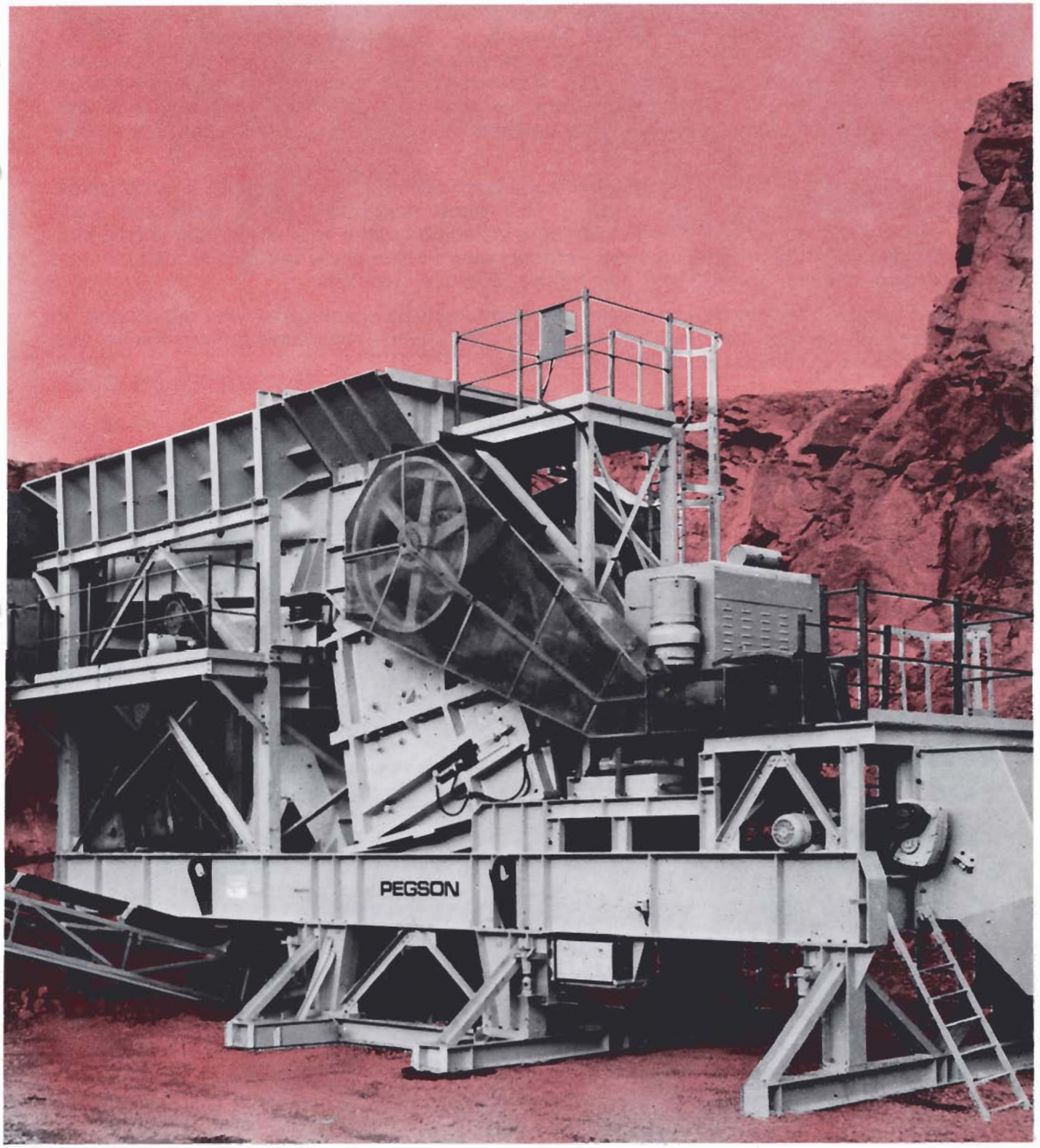
PEGSON

TELSMITH

SINGLE TOGGLE ROLLER BEARING 'D' TYPE JAW CRUSHERS



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SINGLE TOGGLE ROLLER BEARING 'D' TYPE JAW CRUSHERS

Structural durability, operating efficiency, ease of adjustment and reduced maintenance are design features built into the Pegson Telsmith 'D' Style crusher. Employing a welded construction frame, these units provide the staying power to deliver maximum tonnages through sustained crushing operations. Accessibility of components for maintenance or alteration of the discharge setting and the availability of Hydraulic adjustment and Automatic oil lubrication, make 'D' Style crushers ideal for static, portable, or fully mobile installations.

Pegson Telsmith 'D' Style Jaw Crushers have been specifically designed to provide single toggle machines for operations involving the widest possible range of rocks and ores. Igneous material of high compressive strength including granite and basalt, long considered the domain of double toggle crushers, is now being economically reduced in high volume production by fixed, portable and fully mobile 'D' Style machines.

Pegson Limited, backed by many years' experience in the specification and application of aggregate production plant will be pleased to give crusher recommendations against the characteristics or samples of customers' material.

- **Split Boss Flywheel**
- **Protective Impact block on Jaw Stock**
- **Quick Hydraulic or mechanical sizing control. This system is offered as an optional extra on models 18″ × 32″ up to 30″ × 42″ and is standard equipment on models 36″ × 46″ up to 66″ × 84″**
- **Heavy Duty Bearings**
- **Simple toggle changes**
- **Automatic oiling system (optional)**

Specification

Note 1. To obtain the capacities specified, a feeder should be used ahead of the crusher to give a continuous regulated feed; all feed should be of a size that will readily enter the crushing chamber and undersize material should be removed from the feed by the means of a grizzly or scalping screen to eliminate packing and excessive wear on the jaws.

Note 2. The power required varies with the size of the product being made, the capacity and the hardness of the rock or ore.

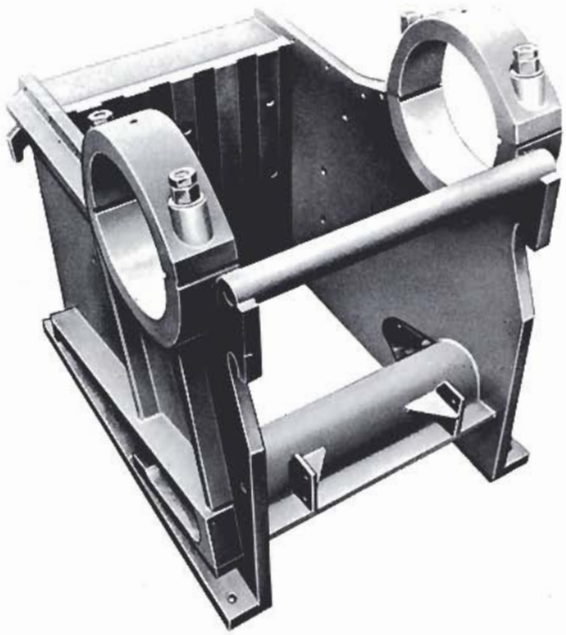
Note 3. No crusher, when set to a given discharge opening, will make a product all of which will pass a screen opening of the same dimensions as the given discharge opening. The amount of oversize will vary with the character of the rock.

Note 4. The capacities given are in metric tonnes of 2204 lbs. They are based on crushing clean, dry limestone weighing loose about 1534 Kg. per cubic metre (2,600 lbs per cubic yard) and having a specific gravity of 2.6. Wet, sticky feeds will tend to reduce crusher capacities.

It is not usually economical to operate the crushers at a discharge opening smaller than shown in the table.

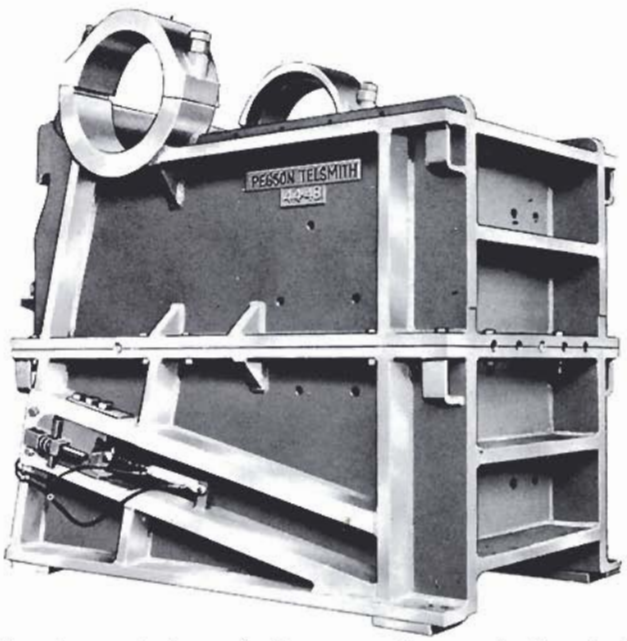
Size of Feed Opening (Note 1)	450 x 810 18″ x 32″	500 x 900 20″ x 36″	630 x 1000 25″ x 40″	750 x 1050 30″ x 42″	900 x 1150 36″ x 46″	1100 x 1200 44″ x 48″	1270 x 1550 50″ x 60″	1670 x 2130 66″ x 84″
Net weight of Crusher approx. Weight crated approx.	Kgs lbs 9,570 21,100 9,643 21,260	Kgs lbs 12,220 27,100 12,370 27,300	Kgs lbs 16,080 35,500 16,240 35,850	Kgs lbs 24,080 53,250 24,250 53,650	Kgs lbs 36,466 76,000 37,925 83,600	Kgs lbs 50,454 111,000 51,000 112,200	Kgs lbs 75,909 167,000 76,818 169,000	Kgs lbs 175,543 387,000 176,904 390,000
Cubic contents, crated	cu.mts. cu.ft. 7·3 258	cu.mts. cu.ft. 14·15 500	cu.mts. cu.ft. 16·26 575	cu.mts. cu.ft. 25·36 900	cu.mts. cu.ft. 31·15 1,100	cu.mts. cu.ft. 45·75 1,616	cu.mts. cu.ft. 59·45 2,100	cu.mts. cu.ft. 0·1415 5,000
Kilowatts Horsepower (Note 2)	45 60	75 100	90 125	110 150	132 175	170 220	220 300	335 450
Drive Pulley Diameter	mm ins 1232 48½	mm ins 1219 48	mm ins 1372 54	mm ins 1524 60	mm ins 1676 66	mm ins 1829 72	mm ins 1981 78	mm ins 2133 84
Drive Pulley Face	mm ins 318 12½	mm ins 375 14¾	mm ins 375 14¾	mm ins 375 14¾	mm ins 406 16	mm ins 432 17	mm ins 432 17	mm ins 609 24
Drive Pulley R.P.M.	275	265	260	255	230	220	225	200

Main Frame;
450 x 810 , 500 x 900, 630 x 1000, 750 x 1050, 900 x 1150



The main frame is an all-steel fabrication comprising thick side plates, reinforced in the load zones, and a heavily ribbed front wall. Accurately machined steel blanks welded into side plates form the bearing housing. The toggle beam (not shown) is not an integral part of the main frame but extends across the rear of the crusher and through slots in the side plates. This configuration has the effect of transferring all loads to the side walls which are adequately ribbed to accept them.

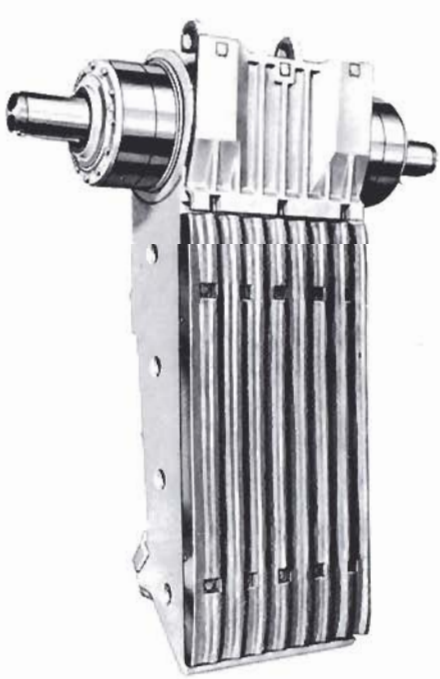
Main Frame;
1100 x 1200, 1270 x 1550, 1670 x 2130



The frame design of these machines embodies horizontal joints for ease of handling and transportation.
The welded main frame is constructed of the strongest available steel and is in two sections, with the exception of the 66" x 84" model which is in three sections.
There is no unnecessary ribbing to add any extra weight or bulk. Massive and solid construction of the single wall, steel weldment enables the crushers to withstand the toughest punishment. Having a single toggle beam arrangement, virtually it is a backless machine giving ease of accessibility for maintenance of components.

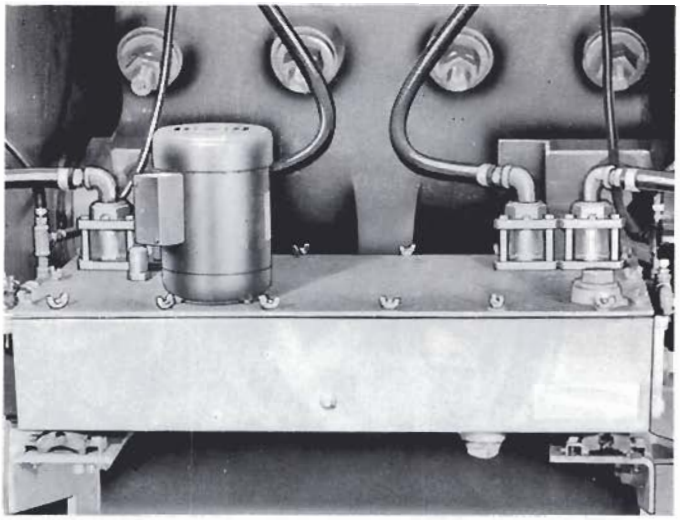
Screw Type Turnbuckle Adjustment

Shims inserted in slots between the toggle beam and backing block determine the discharge setting. The toggle beam is locked in position by bolts on the outside of the crusher and a shim retainer is fitted to locate the shims. Screw type turnbuckles accessible from outside of the machine, are fitted as standard equipment, making adjustment to discharge setting easily accomplished quickly by one man. The jawstock and toggle move as a unit without time-wasting adjustment of the tension spring.



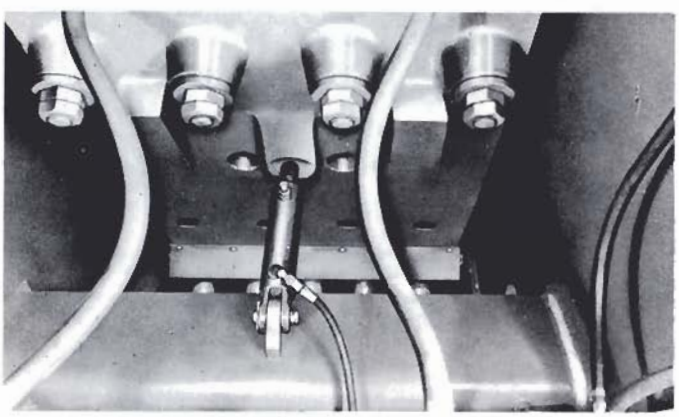
Jaw Stock Assembly

A tough heat treated steel casting accommodates the swing jaw and is fitted with a replaceable manganese steel head-block to protect against the impact of feed material contoured jaw dies increase tonnage and produce a more cubical product.



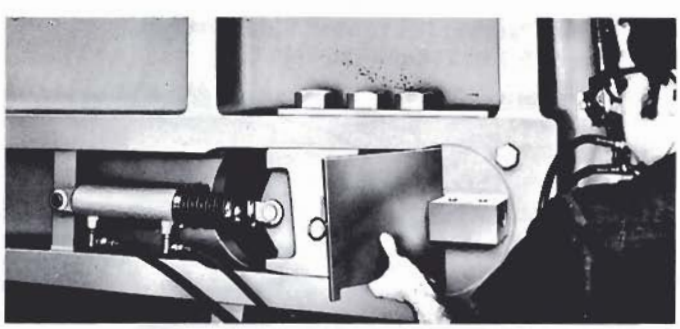
Optional Automatic Oiling System

The optional automatic oiling system can be mounted on crusher frame as a complete pre-packed unit: and can be provided in place of grease lubrication. Oiling system automatically recirculates and filters oil, assuring a constant oil supply to bearings at all times. Oil changes are required only twice yearly. System includes pressure and temperature alarm.



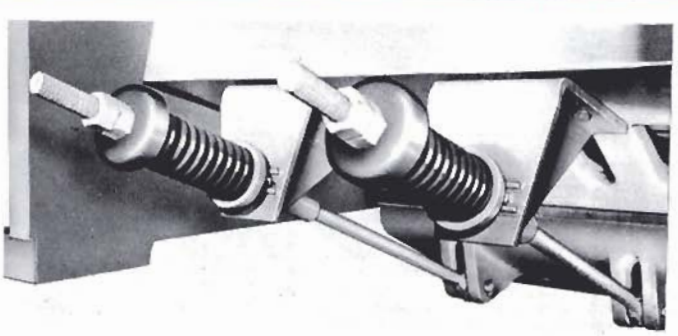
Swing Jaw with optional Hydraulic Ram or Adjustable Mechanical Jaw Prop

Rear of swing jaw with hydraulic ram (optional) is easy to reach, easy to work. The ram holds swing jaw forward for replacing toggle and is disconnected when the machine operates.



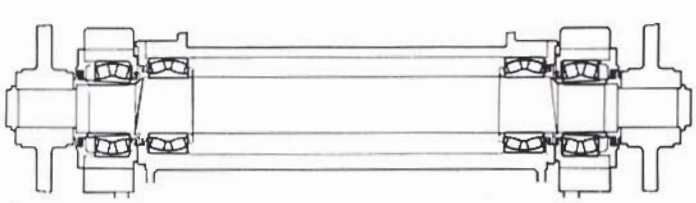
Hydraulic Adjustment

One man quick adjusting system is a fast method of hydraulically changing jaw settings completely from the outside. Swing jaw settings are determined by the number of shims inserted in the slot between the toggle beam and frame. This can be accomplished by one man in minutes, and does not necessitate any time-wasting adjustment of tension springs.



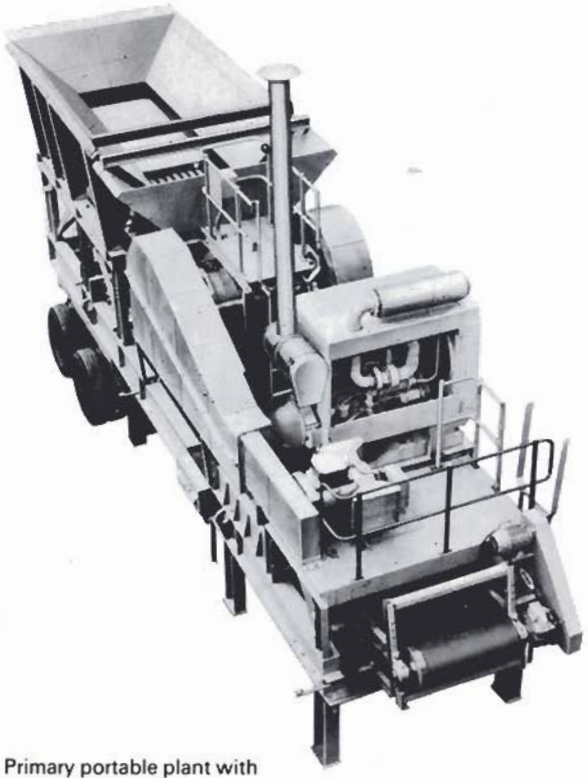
Easy Toggle Removal

The toggle can be removed from the rear of the crusher with the swing jaw held in the forward position. The swing jaw can be held forward either mechanically or hydraulically separate from the adjustment system.

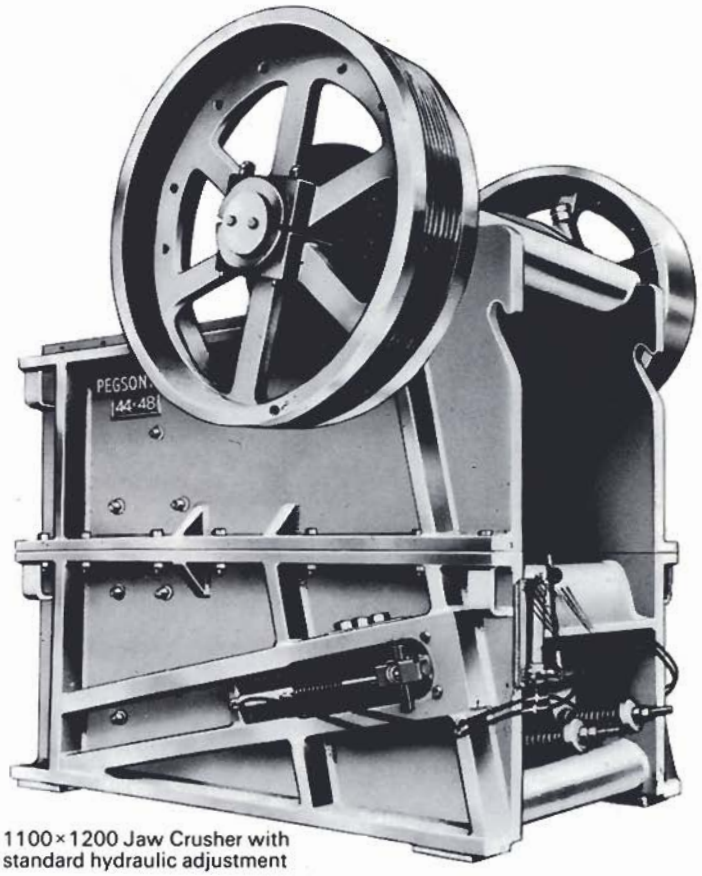


Four-Bearing Arrangement

The eccentric shaft, being a high quality steel forging machined and accurately ground, is supported by heavy duty double-row self-aligning spherical roller bearings on both the jawstock and main frame. The bearings are adequately sealed against loss of lubrication and the ingress of dirt and are located in cartridge type mountings which permit the removal of the entire jawstock and shaft assembly as a unit.



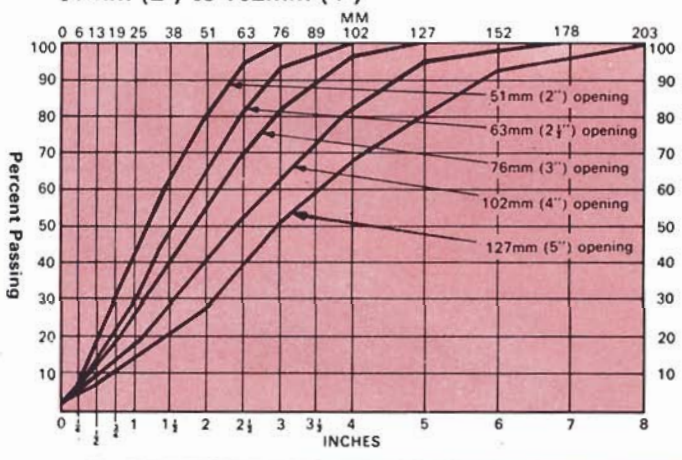
Primary portable plant with
900×1150 Jaw Crusher



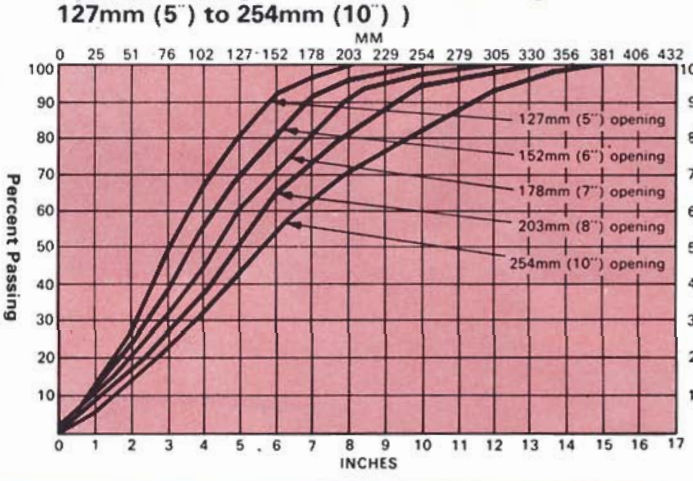
1100×1200 Jaw Crusher with
standard hydraulic adjustment

Screen Analysis of Product

Percent Passing For Closed Side Setting Of 51mm (2") to 102mm (4")

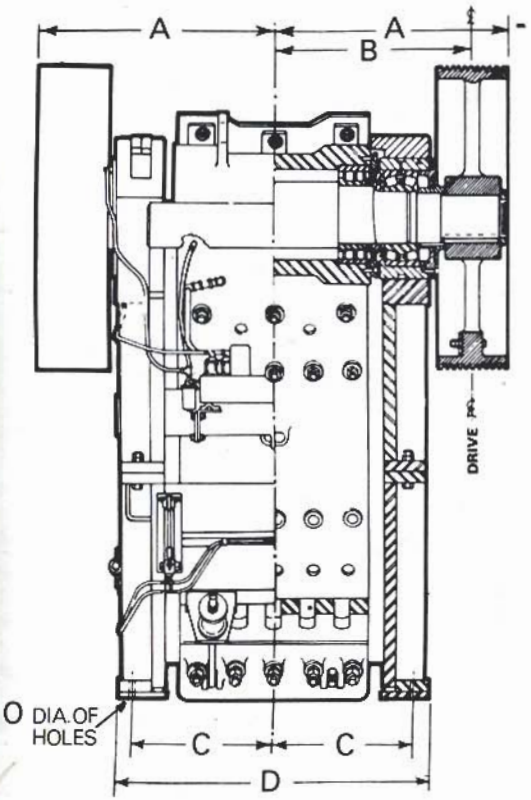


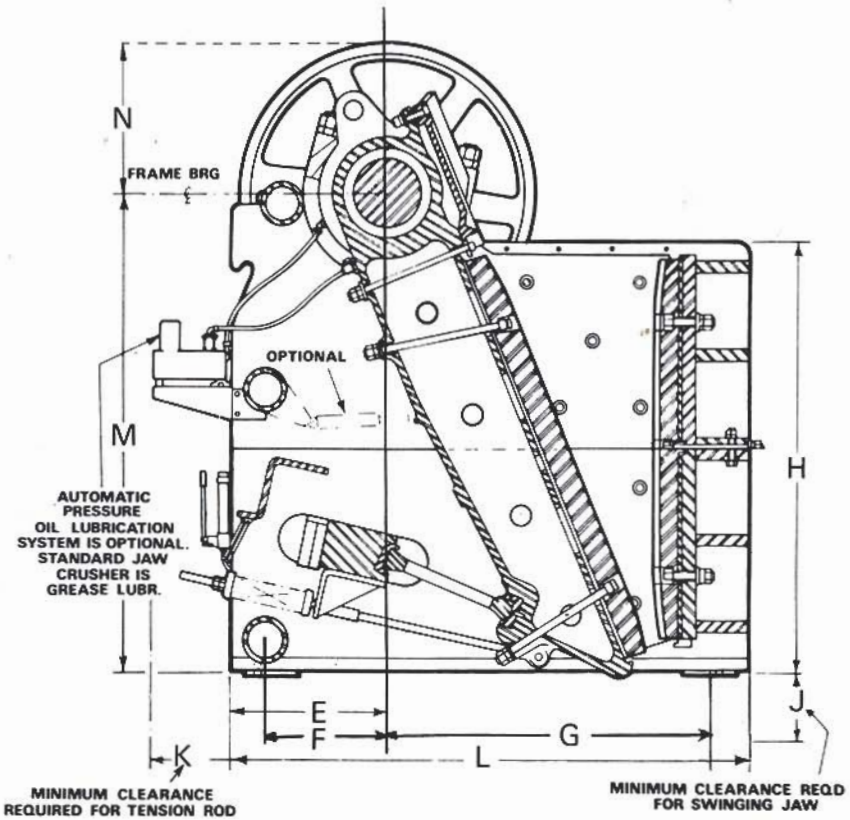
Percent Passing For Closed Side Setting Of 127mm (5") to 254mm (10"))



		CAPACITY (Notes 1 & 4)							
		450×810 18"×32"	500×900 20"×36"	630×1000 25"×40"	750×1050 30"×42"	900×1150 36"×46"	1100×1200 44"×48"	1270×1550 50"×60"	1670×2130 66"×84"
Discharge Opening Closed		metric tonnes/hr	metric tonnes/hr	metric tonnes/hr	metric tonnes/hr	metric tonnes/hr	metric tonnes/hr	metric tonnes/hr	metric tonnes/hr
51mm	2"	40–55	41–77	–	–	–	–	–	–
63mm	2½"	45–60	53–96	–	–	–	–	–	–
76mm	3"	55–75	64–114	100–164	–	–	–	–	–
89mm	3½"	65–85	73–133	114–190	127–199	–	–	–	–
102mm	4"	75–100	81–150	127–203	145–217	182–272	–	–	–
127mm	5"	90–130	105–182	154–245	173–258	217–326	272–406	–	–
152mm	6"	–	127–217	181–291	199–299	254–381	302–453	381–567	–
178mm	7"	–	150–254	203–340	236–345	291–433	332–499	417–632	590–860
203mm	8"	–	–	236–390	272–437	–	368–554	458–691	633–955
216mm	8½"	–	–	–	–	350–528	390–579	–	678–1017
229mm	9"	–	–	–	–	–	423–605	536–758	923–1080
254mm	10"	–	–	–	–	390–589	433–650	545–817	785–1178
279mm	11"	–	–	–	–	–	469–705	587–886	848–1276
305mm	12"	–	–	–	–	–	506–758	643–952	928–1392
330mm	13"	–	–	–	–	–	–	705–1231	1017–1526
355mm	14"	–	–	–	–	–	–	817–1333	1124–1678
381mm	15"	–	–	–	–	–	–	863–1455	1249–1874
400mm	16"	–	–	–	–	–	–	–	1410–2107

Dimensions





CRUSHER SIZE	A mm	A ins	B mm	B ins	C mm	C ins	D mm	D ins	E mm	E ins	F mm	F ins	G mm	G ins	H mm	H ins	J mm	J ins	K mm	K ins	L mm	L ins	M mm	M ins	N mm	N ins	O mm	O ins
450×810 18″×32″	966	38	807	31¾	590	23 3/16	1296	51	610	24	520	20 7/16	1020	40 3/16	1239	48¾	152	6	457	18	1718	67⅝	1404	55¼	616	24¼	42	1⅝
500×900 20″×36″	1099	43¼	883	34¾	635	25	1372	54	470	18½	394	15½	1257	49½	1289	50¾	279	11	457	18	1803	71	1441	56¾	610	24	38	1½
630×1000 25″×40″	1165	45 7/8	889	35	711	28	1556	61¼	533	21	457	18	1448	57	1422	56	305	12	660	26	2057	81	1584	62⅜	676	26⅝	44	1¾
750×1050 30″×42″	1245	49	1054	41½	753	29⅝	1683	66¼	762	30	673	26½	1740	68½	1676	66	381	15	610	24	2591	102	1943	76½	750	29½	44	1¾
900×1150 36″×46″	1355	53⅜	1160	45⅝	813	32	1805	71	870	34¼	780	30 11/16	1988	74 3/16	2108	83	438	17¼	686	27	2946	116	2407	94¾	840	33	46	1⅞
1100×1200 44″×48″	1448	57	1194	47	870	34½	1918	75½	965	38	800	31½	2070	81½	2629	103½	406	16	508	20	3200	126	2921	115	914	36	44	1¾
1270×1550 50″×60″	1905	75	1537	60½	1040	41	2286	90	1120	44⅛	865	34	2325	91½	2975	117½	510	20	510	20	3700	145½	3285	129⅜	1296	51	60	2⅜
1670×2130 66″×84″	2346	92⅜	1880	74	1365	53¾	3048	119½	1321	52	991	39	2952	116¼	4937	178½	330	13	330	13	4533	181½	4605	194⅜	1067	42	89	3½