

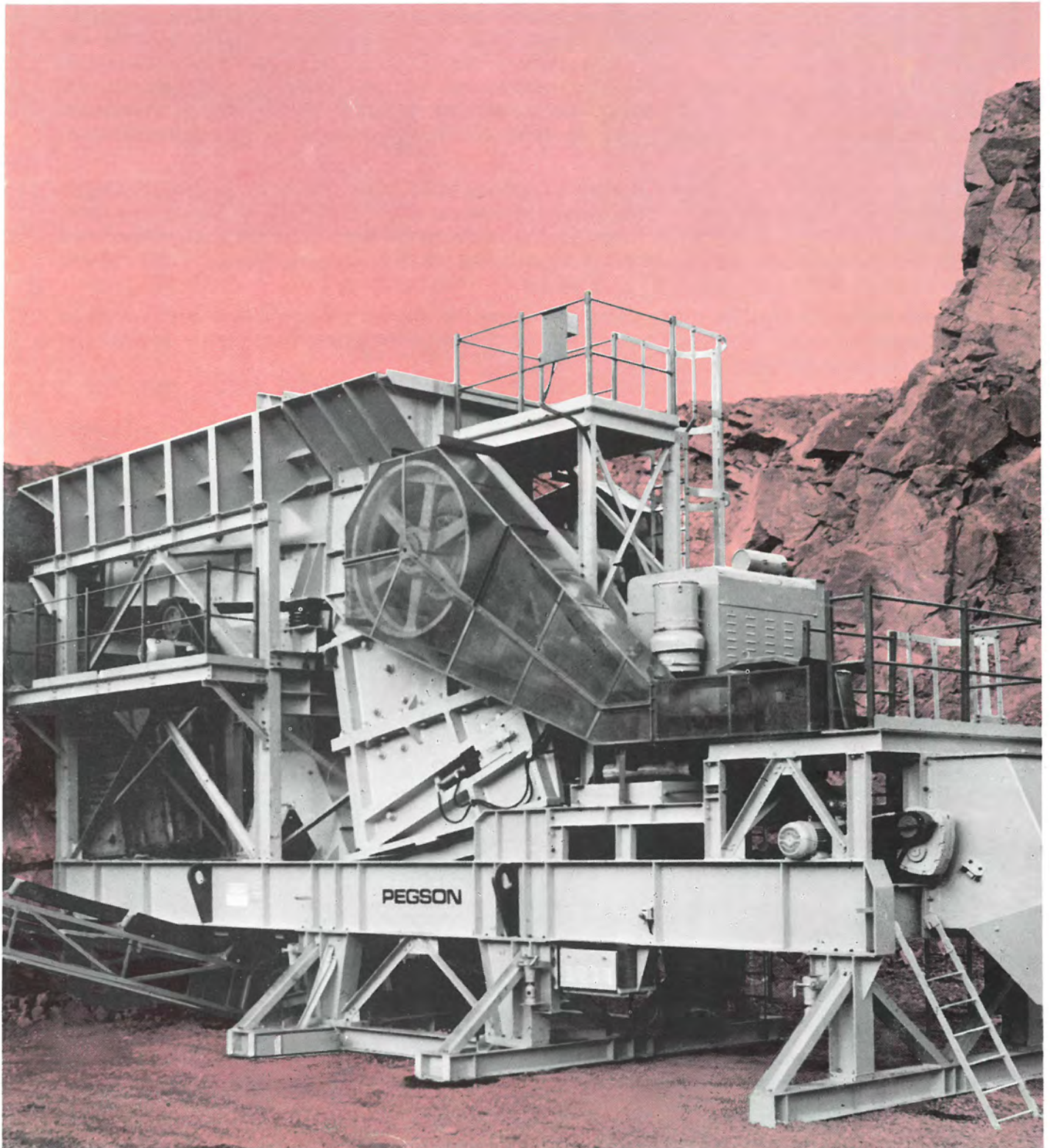
PEGSON



TELSMITH

**SINGLE TOGGLE
ROLLER BEARING**

**'D'TYPE
JAW CRUSHERS**



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'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 stress relieved 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" x 32" up to 30" x 42" and is standard equipment on models 36" x 46" up to 66" x 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

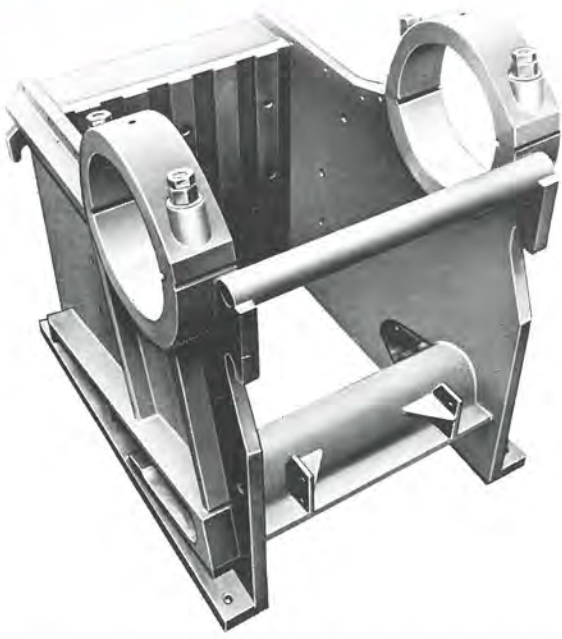
dimensions as the given discharge opening. The amount of oversize will vary with the character of the rock.

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.

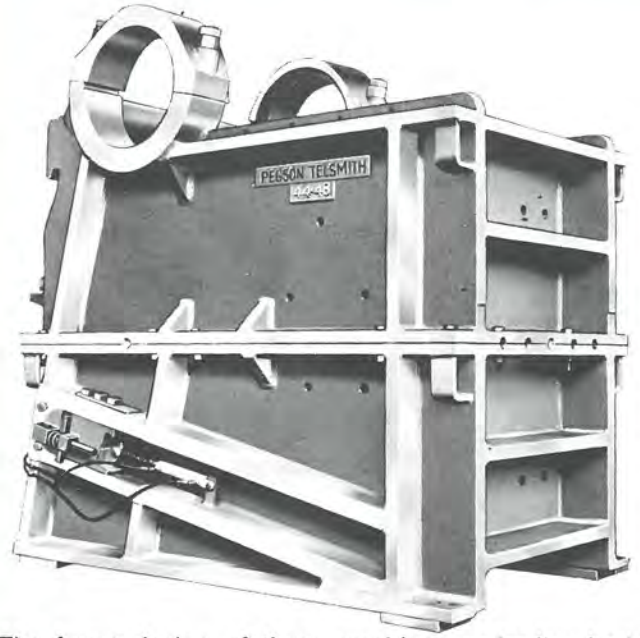
Size of Feed Opening (Note 1)	450 x 810 18" x 32"	500 x 900 20" x 36"	630 x 1000 25" x 40"	750 x 1050 30" x 42"	900 x 1150 36" x 46"	1100 x 1200 44" x 48"	1270 x 1550 50" x 60"	1670 x 2130 66" x 84"
Net weight of Crusher approx. Weight crated approx.	Kgs lbs 9,570 21,100 9,643 21,260	Kgs lbs 12,220 27,100 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	56-75 75-100	75-93 100-125	93-112 125-150	112-130 150-175	130-150 150-200	186-223 250-300	335 450
Drive Pulley { Diameter Face R.P.M.	mm. ins 1232 48½ 318 12½ 275	mm. ins 1219 48 375 14½ 265	mm. ins 1372 54 375 14½ 260	mm. ins 1524 60 375 14½ 255	mm. ins 1676 66 406 16 235	mm. ins 1829 72 432 17 220	mm. ins 1981 78 432 17 220	mm. ins 2133 84 609 24 200

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.

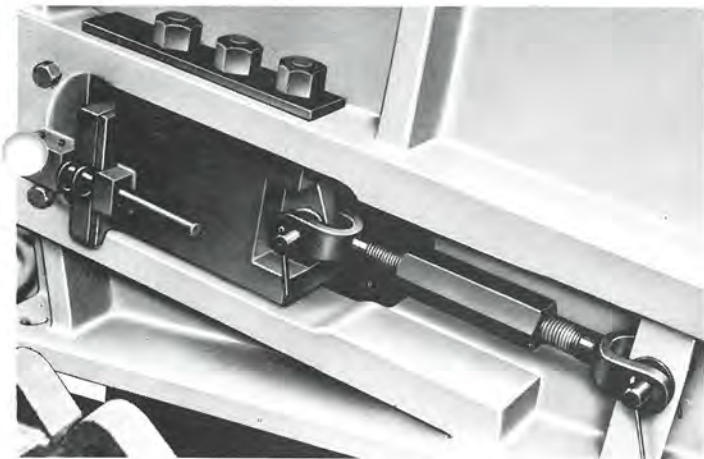
Main Frame; 1100 x 1200, 1270 x 1550, 1670 x 2130



The frame design of these machines embodies horizontal joints for ease of handling and transportation.

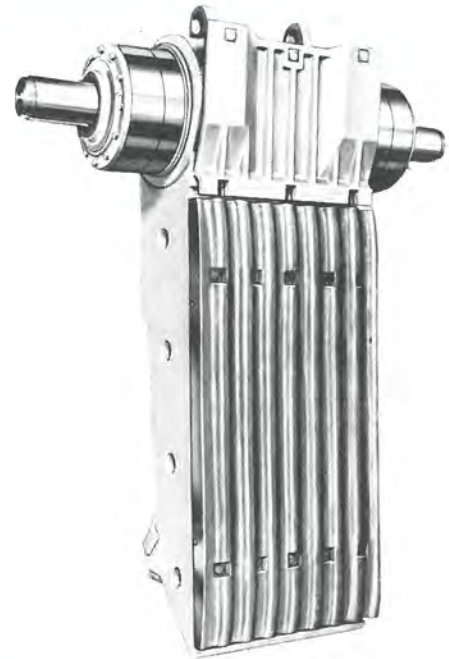
The welded main frame is constructed of the strongest available steel and is in two sections, with the exception of the 66" x 84" model which is in three sections.

There is no unnecessary ribbing to add any extra weight or bulk. Massive and solid construction of the single wall, stress relieved 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.



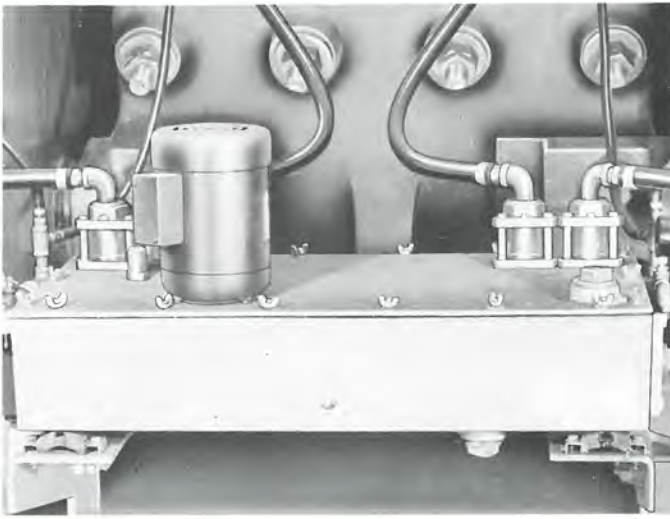
Screw Type Turnbuckle Adjustment

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.



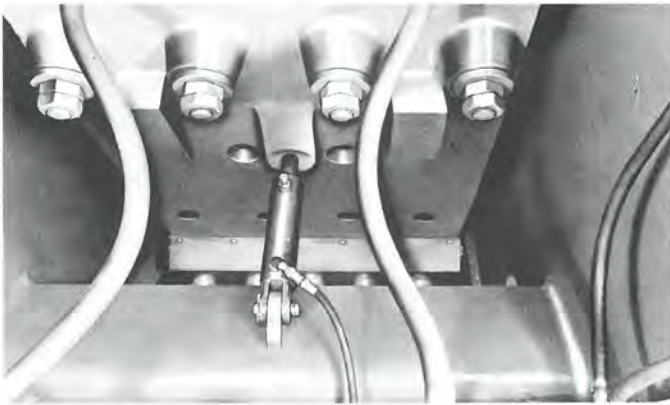
Jaw Stock Assembly

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.



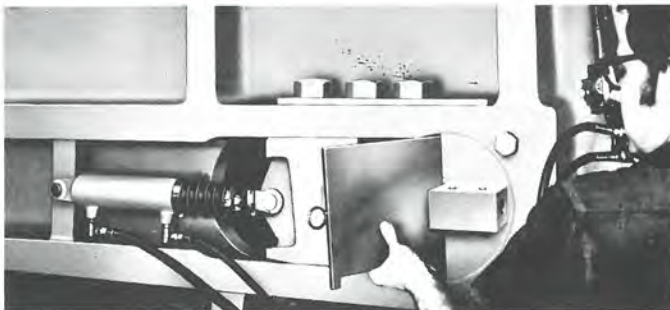
Optional Automatic Oiling System

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.



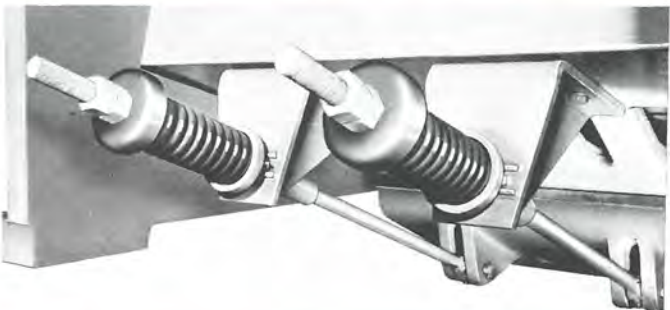
Swing Jaw with optional Hydraulic Ram or Adjustable Mechanical Jaw Prop

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.



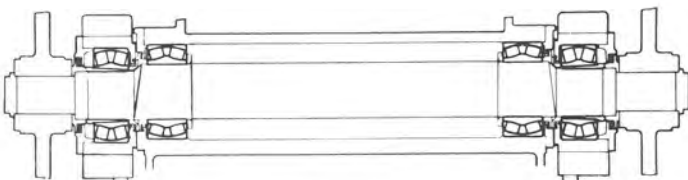
Hydraulic Adjustment

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

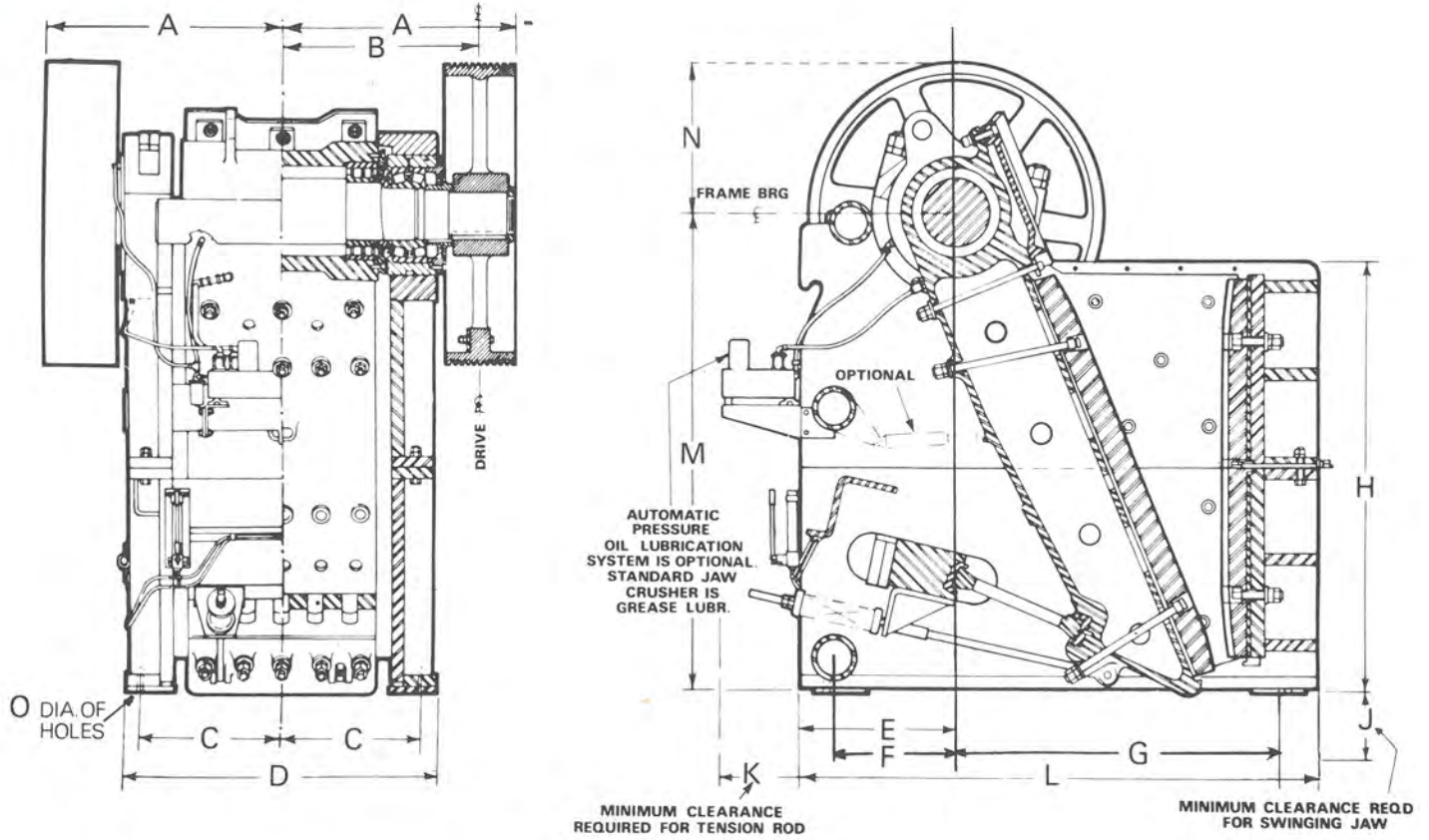
The toggle can be removed from the rear of the crusher with the swing jaw held in the forward position. The swing jaw can be held forward either mechanically or hydraulically separate from the adjustment system.



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.

Dimensions



CRUSHER SIZE	A		B		C		D		E		F		G		H		J		K		L		M		N		O	
	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins
450 × 810 18" × 32"	966	38	807	31½	590	23½	1296	51	610	24	520	20½	1020	40½	1239	48½	152	6	457	18	1718	67½	1404	55½	616	24½	42	1½
500 × 900 20" × 36"	1099	43½	883	34½	635	25	1372	54	470	18½	394	15½	1257	49½	1289	50½	279	11	457	18	1803	71	1441	56½	610	24	38	1½
630 × 1000 25" × 40"	1165	45½	889	35	711	28	1556	61½	533	21	457	18	1448	57	1422	56	305	12	660	26	2057	81	1584	62½	676	26½	44	1½
750 × 1050 30" × 42"	1245	49	1054	41½	753	29½	1683	66½	762	30	673	26½	1740	68½	1676	66	381	15	610	24	2591	102	1943	76½	750	29½	44	1½
900 × 1150 36" × 46"	1355	53½	1160	45½	813	32	1805	71	870	34½	780	30½	1988	74½	2108	83	438	17½	686	27	2946	116	2407	94½	840	33	48	1½
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	1½
1270 × 1550 50" × 60"	1905	75	1537	60½	1040	41	2286	90	1120	44	865	34	2325	91½	2975	117½	610	20	510	20	3700	145½	3285	129½	1296	51	60	2½
1670 × 2130 66" × 84"	2346	92½	1880	74	1365	53½	3048	119½	1321	52	991	39	2952	116½	4937	178½	330	13	330	13	4533	181½	4605	194½	1067	42	89	3½



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