

TURNKEY PROJECTS UPTO 400 T.P.H.

AGGREGATE MANUFACTURING PLANTS FOR CUBICAL AGGREGATES & SAND MANUFACTURING PLANTS



MANUFACTURERS OF :

- JAW CRUSHERS
- IMPACTORS
- VERTICAL SHAFT IMPACTOR (V.S.I.)
- HAMMER MILLS
- BALL MILLS
- VIBRATING SCREENS
- SINGLE ROLL CRUSHERS
- TOOTHED DOUBLE ROLL CRUSHERS
- CONVEYERS
- FEEDERS & COMPLETE TURNKEY PLANTS

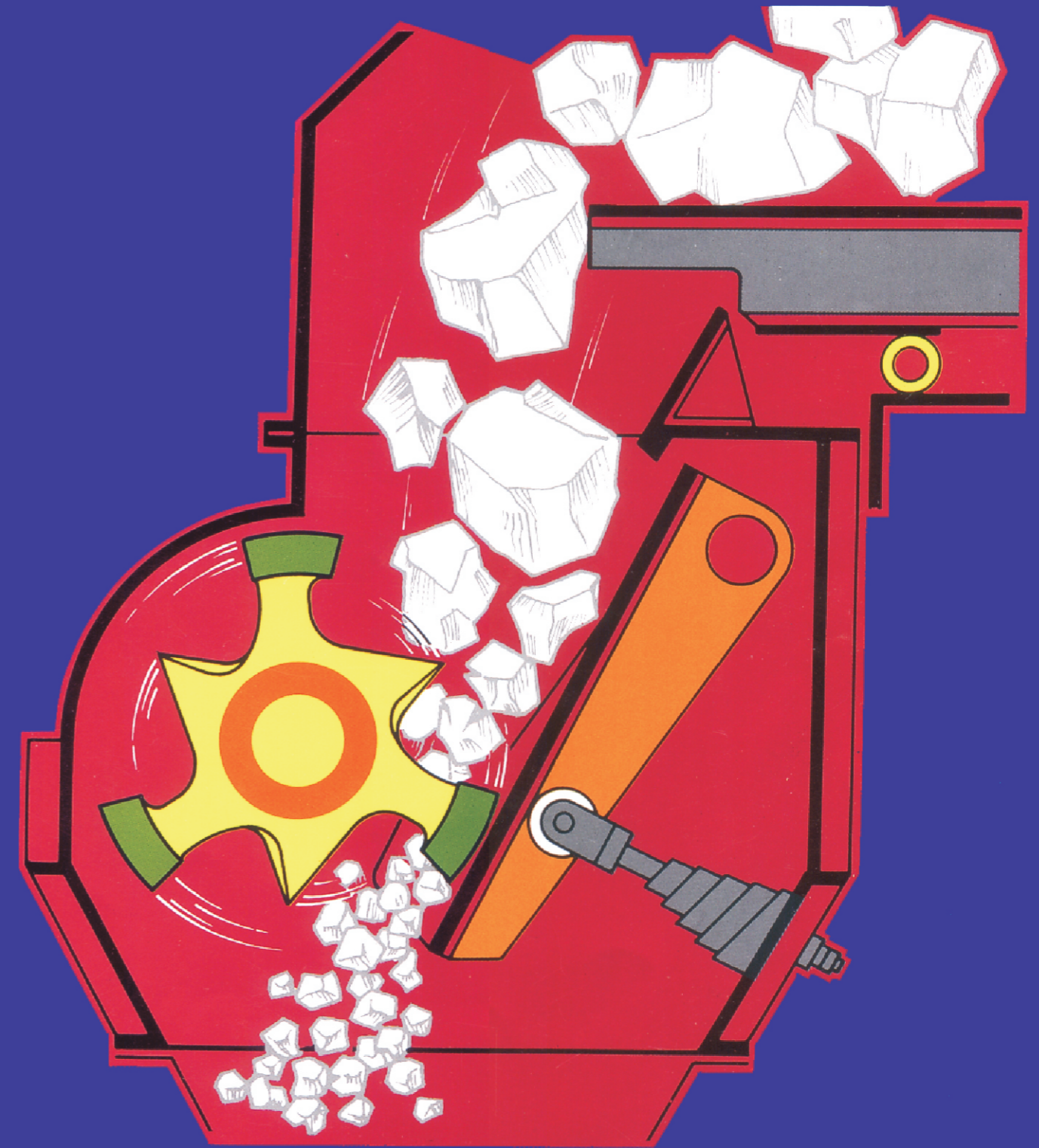


HIMALI # 3234540

Single Roll Crusher

HEAVY DUTY - TYPE E 1100 S

LIGHT DUTY - TYPE E 1100 L



PERFECTION IN SIZE REDUCTION TECHNOLOGY

ECOMAN

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PERFECTION IN SIZE REDUCTION TECHNOLOGY

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SINGLE ROLL CRUSHERS



Application ;

Single Roll crushers are used for the crushing of soft, medium hard and friable materials, like R.O.M. Coal, Rock Phosphate, Soft limestone, Salt Shales, Slag etc.

Type are manufactured in two types :-

1. E - 1100S - HEAVY DUTY.
2. E - 1100L - LIGHT DUTY.

As the heavy duty crushers run at comparatively lower speed than the light duty crushers, countershaft with gear & pinion arrangement/gear box gets added in the drive system.

Otherwise in case of light duty crushers, drive is through V belts only. Many times slow speed motors with bigger diam driven pulleys are used as drive.

Working :

The Crushing of feed material takes place in the single roll crusher, in a wedge-shaped crushing zone, by pressure and shear.

Crushing area formed by the rotating roll and the adjustable spring loaded breaker plate. On the discharge side gap between the combs of the breaker plate & roll-tips is adjustable. The gap setting, tooth configuration, surface speed & spring load decides the end-product.

Construction :

Crusher roll assembly is mounted on two heavy duty, overdimensioned self aligning roller bearings with steel housings with Labyrinth seals. These heavy duty pedestals are mounted on the rigid-welded, steel chassis. Toothed rings are mounted on the fabricated hub/forged shaft & clamped together by tightening bolts. These toothed rings are made of wear resistant steel like K.M.D. Mn Steel (14%) etc. as per the application.

Main shaft is an alloy steel forging with higher tensile strength. EN9, EN24 etc.

Breaker plate is suspended on a heavy hinge pin, mounted on the housing of the roll crusher. Lower end is supported on heavy duty springs and by screw & nut arrangement, its position can be altered.

1. Ratio of feed size (da) and the diam of roll (Dw) Lies between

$$\frac{Dw}{da} = 4 - 5 \text{ (depends upon product size)}$$

2. **Capacity.** $Q = 0.5 BSV 3600 E$

$Q = M^3/h$

$B = \text{WIDTH OF ROLL}$

$S = \text{SETTING}$

$V = \text{ROLLER SPEED}$

$E = \text{FILLING FACTOR}$

3. **SPEED OF CRUSHING :** 3 M/SEC TO 8 M/SEC

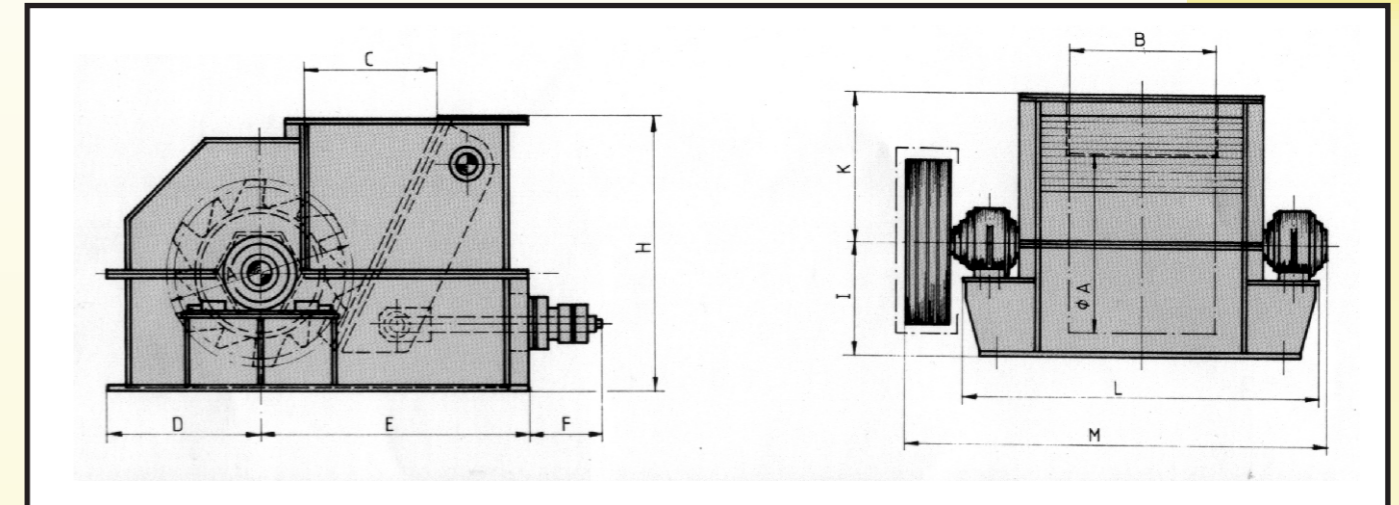
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TECHNICAL DATA



SINGLE ROLL CRUSHERS

(LIGHT - DUTY) TYPE E 1100 L



Size	A Rolls	I B I	C	D	E	F	H	I	K	L	M	weight kgs
1150/40	500	400	300	400	670	250	700	300	400	960	1400	1750
1150/80	500	800	300	400	670	250	700	300	400	1360	1800	2500
1150/120	500	1200	300	400	670	250	700	300	400	1760	2200	3300
1165/40	650	400	380	475	775	250	850	375	475	970	1410	2250
1165/80	650	800	380	475	775	250	850	375	475	1370	1810	3600
1165/120	650	1200	380	475	775	250	850	375	475	1770	2210	5000
1180/80	800	800	450	550	850	250	1000	450	550	1380	1850	5000
1165/120	800	1200	450	550	850	250	1000	450	550	1780	2250	7200
1180/160	800	1600	450	550	850	250	1000	450	550	2180	2650	10000
1110/80	1000	800	550	650	950	250	1200	550	650	1390	1860	8300
1110/120	1000	1200	550	650	950	250	1200	550	650	1790	2260	10200
1110/160	1000	1600	550	650	950	250	1200	550	650	2190	2260	12000
1110/200	1000	2000	550	650	950	250	1200	550	650	2590	3060	13800
1112/120	1200	1200	650	750	1050	250	1400	650	750	1800	2270	12600
1112/160	1200	1600	650	750	1050	250	1400	650	750	2200	2670	15400
1112/200	1200	2000	650	750	1050	250	1400	650	750	2600	3140	17800
1112/240	1200	2400	650	750	1050	250	1400	650	750	3000	3540	20400

Dimensions & Ratings Indicative

Not Binding