

# Process Description

Crushing plant includes vibrating feeder, jaw crusher, impact crusher, vibrating screen, belt conveyor and centrally electric controlling system, etc. The designed capacity is from 50t/h to 500t/h. To meet customers specific requirement, we can also add other equipments , dust catcher on the production line

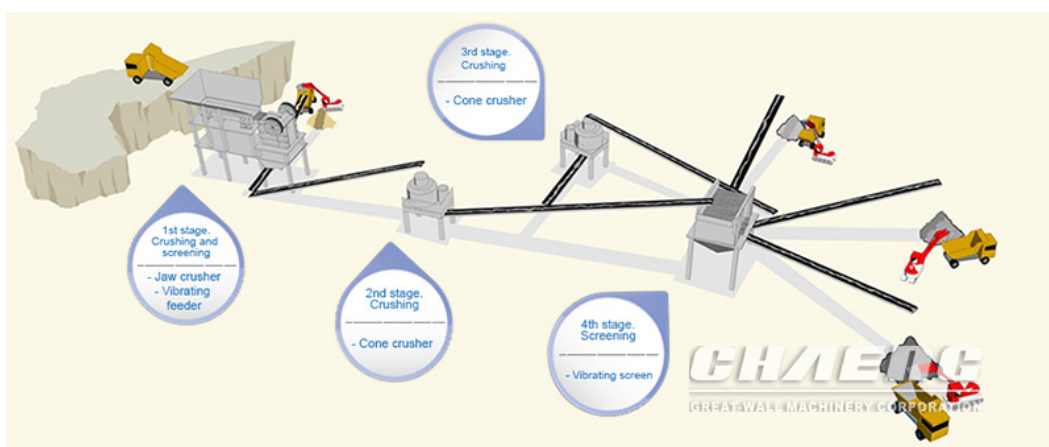
Big size limestones are transferred to primary crusher through vibrating feeder from hopper for first crushing, then the crushed materials are transferred to impact crusher through belt conveyor for secondary crushing. The materials crushed will be transferred to the vibrating screen, and separated to different sizes. The aggregate with suitable size will be transferred to the final product pile and aggregate with unsuitable size will be transferred to the impact crusher for re-crushing. This forms a closed and manifold cycles. The sizes of final products will be graded and separated according to customers' requirements, and the duster will be attached for the sake of environment protection.

## The application of crusher plant:

The Stone Crushing Plant of our company mainly consists of Vibrating Feeder, Jaw Crusher, Cone Crusher or Impact Crusher, Vibrating Screen, Belt Conveyors and Control System, etc. It is completely capable to crush and screen limestone, marble, granite, basalt, river stone and so on, and produce sand & gravels with various granularities for construction and building industry. We are able to design and manufacture complete crusher plants with capacity from 30tph to 500tph, and to provide optimum and most economical solutions according to customers' requirements on stone specifications, capacity, application, etc.

## Process of Stone Crushing Plant :

Large stone materials from the hopper are evenly and continuously fed into jaw crusher through vibrating feeder for primary crushing; the crushed materials are transported to cone crusher or impact crusher for fine crushing through belt conveyor; then the materials are transported to vibrating screen to be separated into different sizes. The end products with desired sizes will be transported to the final product pile and those with big sizes will return to the cone crusher or impact crusher for re-crushing. This forms closed and continuously automatic cycles. The plant can be equipped with dust removing facilities to protect environment according to customers' requests.



# Specifications

NO.	Equipment	Model	Motor (KW)	Number
	Hopper	LC3000*4000		1
I	Vibrating Feeder	GZD960*3800	11	1
II	Jaw Crusher	PE600*900	75	1
III	Impact Crusher	PFW1214III	132	1
IV	Vibrating Screen	3YK1860	22	1
Belt				
NO.	Name	Length(m)	Motor (KW)	Number
G1	G800	18	7.5	1
G2	G800	23	11	1
G3	G500	25	7.5	1
G4	G500	20	5.5	3
G5	G500	15	5.5	1

Model	Impeller Speed (r/min)	Max Feed-in size (mm)	Capacity (t/h)
600	2000-3000	30	12-30
750	1500-2500	35	25-55
900A	1200-2000	40	55-100
900B	1000-1450	40	65-130
1050	1000-1700	45	100-160
1250	850-1450	45	160-300
1350	800-1193	50	200-360

## Features

High-reliability

Tight combination, easy operation

High efficiency, easy maintenance

High degree of automatic operation; the entire production line requires almost no manual operation except for machine starting and stopping, routine maintenance.

Regular end product granularity, good grain shape, and low powder output.

## **About CHAENG**

Founded in 1958 and located in Xinxiang, Henan province, CHAENG with 60-year experience in equipment manufacturing covers an area of 330,000 m<sup>2</sup> and its annual production value is 1 billion yuan. The company specializes in manufacturing tube mills, rotary kilns, vertical mills and large steel casting and can undertake the EPC projects of cement production lines, active lime production lines, blast furnace slag/ steel slag/ nickel slag grinding plants, and its products are sold to more than 50 countries and regions in Southeast Asia, Central Asia, South Asia, North America, South America and Europe.

Our long-term strategic partners: Arcelor Mittal, Tata Group, Pohang Iron and Steel Company, Germany CCE, Japan Chiba , Shanghai Baosteel , Voestalpine and ASGT

The logo for CHAENG features the word "CHAENG" in a bold, sans-serif font. The letter "A" is stylized with a red triangle pointing upwards. Below the word "CHAENG" is a red horizontal line, and underneath that line, the text "GREAT-WALL MACHINERY CORPORATION" is written in a smaller, all-caps, sans-serif font, following the curve of the line.

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