



SHMG Equipment (Canada) Corporation

## Shan Bao Hammer Crusher Series



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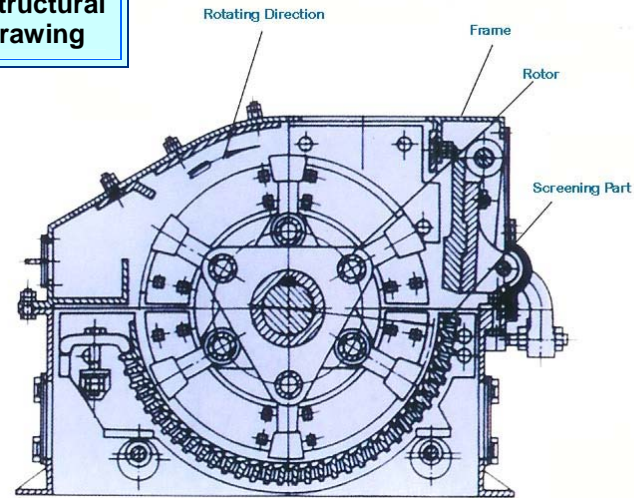
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## PC Model Hammer Crushers



This series of hammer crushers is designed to crush various kinds of brittle materials such as coal, salt, chalk, plaster, brick-tile limestone, etc. Maximum material compressive resistance 100Mpa with moisture content less than 15%.

Structural Drawing



## PC Model Hammer Crusher Principal Technical Data

Models	Rotor Working Diameter Length(in)	Speed of Rotor (r/min)	Size of Feed Opening (in)	Max. Size of Feed Material	Size of Discharge (in)	Crushing Capacity(t/h)	Electric Rotor Power (kW)	Weight(t)	Overall Dimensions(in)		
PC-41	Φ15.75/6.89	1000	5.71x10.63	50	0.12	0.5	5.5	0.5	31.97	41.57	51.77
PC-44	Φ15.75/15.75	1500	5.71x17.72	100	0.39	5~8	7.5	0.9	29.29	37.09	34.57
PC-64	Φ23.62/15.75	1000	11.61x17.72	100	0.59	10~12	18.5	1.03	41.50	38.27	43.98
PC-66	Φ23.62/23.62	1000	11.61x22.44	100	0.39	12~18	45	2.14	51.77	33.07	59.09
PC-86	Φ31.5/23.62	1000	13.78x22.44	200	0.39	20-25	55	2.45	59.65	33.07	59.09
PC-88	Φ31.5/31.5	1000	13.78x33.46	200	0.59	35-45	55	3.05	59.65	111.46	40.94
PC-108	Φ39.37/31.5	1000	22.83x33.46	200	0.51	25-40	110	6.5	126.22	87.01	59.65
PC-1010	Φ39.37/39.37	1000	22.83x41.73	200	0.59	40-60	132	7.59	138.35	87.80	59.69
PC-1010	Φ39.37/39.37	1000	22.83x41.73	200	0.39	30-50	160	7.59	138.35	87.80	59.76
PC-1010	Φ39.37/39.37	1000	22.83x41.73	200	0.31	25-35	185	7.59	138.35	87.80	59.76
PC-1212	Φ49.21/49.21	750	25.59x52.36	200	0.79	90-110	185	19.1	176.18	124.49	88.58
PC-1414	Φ55.12/55.12	750	41.34x60.63	250	0.79	120-170	280	17.2	109.84	110.24	90.94
PC-1618	Φ62.99/70.87										

## PCZ Series Vertical Shaft Fine Impacter



This type of Vertical Fine Impacter is designed to crush materials with compression strength less than 150 MPa. Especially suitable for cement industry to crush brittle material such as limestone, with surface moisture not greater than 10%. Can also be used while fine crushing work is required for construction material, chemical engineering, mining, metallurgical etc. Install before mill to increase mill efficiency and receive best milling performance.

### PCZ Series Vertical Shaft Fine Impacter Principal Technical Data

Models	PCZ0604	PCZ0608	PCZ0612	PCZ0808	PCZ0812	PCZ1012	PCZ1212			
Rotor Working Diameter (in)	24.41	24.41	24.41	32.28	32.28	40.16	49.21			
Rotor Working Length(in)	15.35	31.10	46.85	31.10	46.85	46.85	49.21			
Speed of Rotor (r/min)	1000	1000	1000	1000	1000	750	650			
Weight of the Hammer head (t)	24	24	24	28	28	28	40			
Amount of Hammerheads	3	6	9	8	12	18	15			
Max. Size of Feed Material (in)	5.91	9.84	9.84	13.78	13.78	13.78	13.78			
Size of Discharge (in)	0.39	0.39	0.39	0.59	0.59	0.12	0.59	0.12	0.79	0.12
Crushing Capacity(t/h)	5~15	15-25	30-40	40-50	50-60	26	60-90	27.6	100-140	31
Overall Dimensions(mm)	17.32x17.32	17.32x31.50	17.32x47.24	20.47x31.89	21.65x47.24	21.65x47.64	21.65x50			
Motor Power (kW)	15	45	55	75	90	132	185			
Total Weight (t)	1670	2788	3675	4430	5835	7790	10500			

## PCH Series Vertical Shaft Fine Impacter



PCH series vertical shaft fine impacter is designed to crush material with compression strength less than 10 MPa. Especially suitable for cement industry to crush brittle material such as limestone, with less than 8% of surface moisture. Also it may be used for fine crushing work of construction material, chemical engineering, mining, metallurgical etc. Install before mill to increase mill efficiency and receive best milling performance.

PCH Series Vertical Shaft Fine Impacter Principal Technical Data

Models	Max. Feed Size (in)	Adjustable Range of Discharge Opening (in)	Crushing Capacity(m <sup>3</sup> /h)	Electric Motor Power(kW)	Weight(excluding Electric Motor)(t)
PCH-0402	7.87	0.12 ~ 1.18	8~12	5.5	800
PCH-0404	7.87	0.12 ~ 1.18	16-25	11	1050
PCH-0604	7.87	0.12 ~ 1.18	22-33	18.5	1430
PCH-0606	7.87	0.12 ~ 1.18	30-60	30	1770
PCH-0808	7.87	0.12 ~ 1.18	75-105	45	3600
PCH-1010	11.81	0.12 ~ 1.18	200-245	110	6100
PCH-1016	11.81	0.12 ~ 1.18	400-500	220	9740

## PCL Series Vertical Shaft Fine Impacter



PCL series vertical shaft fine impacter is suitable for crushing material with compression strength less than 160 MPa. Especially suitable for cement industry to crush brittle material such as limestone, with surface moisture not greater than 5%. Also it can be used for fine crushing work of construction material, chemical engineering, mining, metallurgical, etc. Install before mill to increase mill efficiency and receive best milling performance.

PCL Series Vertical Shaft Fine Impacter Principal Technical Data

Model	Capacity(t/h)	Size of Feed Material (in)	Size of Exceed Material (in)	Power of Motor (kW)	Weight (t)
PCL750-3	12~15	≤1.97	≤0.020	Y200L-4 N=30	2.34
PCL750-4	12~15	≤1.97	≤0.020	Y200L-4 N=30	2.75
PCL1000-3	20-25	≤2.36	≤0.024	Y280M-6 N=55	4.7
PCL1250-3	35-40	≤2.76	≤0.028	Y315M-8 N=75	6.63
PCL1500-3	50-55	≤3.94	≤0.032	Y315L 2-8 N=110	9.899
PCL1500-4	60-75	<3.15	<0.028	Y315M 3-8 N=110	11.078

## PCGR Series Drying Hammer Crusher



PCGR Series Drying Hammer Crusher is a newly developed crusher. It has combined drying and crushing process in the same equipment. The technology and design was developed by Chengdu Building Material Industrial Design & Research Institute of National Building Material Industrial Bureau, based on absorption and assimilation of abroad advanced technology. It is suitable for processing non-abrasion soft materials with high moisture content, "dewatering" of wet-method cement products, and "Wet grounding and burning dry" of expanded cement production line to dry and crush the filtered cake.

Crude material slurry pass through the vacuum filtration to become wet material with 20% water, then been fed into the drying crusher, in the feeding box, the filtered cake contact with introduced hot air, carry out strong heat exchange, then through the distributor. The wet material along with rotor axle of crusher dispersing initially, most moisture on the cake surface is evaporated, the pre-drying material along with hot air enter into the crushing chamber, and is crushing between arc plate and rotor rotating with linear speed of 30~ 40 m/s, and carry out heat exchange with hot air fully, the fines below 1mm is suspending in the air , along with hot air enter into rising pipeline, the coarse fines is crushing repeatedly until it is drawn off by hot air , the full even crude material is sending into the cyclone decomposing furnace , finally enter into the kiln.

The first PCGR Drying Hammer Crusher, which is produced by cooperated work of Shanghai Jianshe Luqiao Machinery Co., and Chengdu Building Material Industrial Design & Research Institute , have been put into running in Guiyang cement plant. This series product have following major features:

- ◆ Main shaft drive adopts reducer connection with higher driving efficiency.
- ◆ Main shaft cooling adopt thermal insulation in chamber and air cooling out chamber to ensure normal use of bearing.
- ◆ Crushing chamber is lined with thermal insulation material to ensure full heat exchanging.

### PCGR Series Drying Hammer Crusher Principal Technical Data

Models	PCGR-2522	PCGR-3026	
Rotor Working Diameter(in)	98.43	118.11	
Rotor Working Length(in)	88.58	102.36	
Crushing Capacity(t/h)	62-80	110	
Speed of Rotor (r/min)	208	208	
Material	Wet Cement		
Feed Water Content %	20	20	
Exceed Water Content %	≤1	≤1	
Inlet Wind Temperature ℃	-580	500-540	
Exit Wind Temperature ℃	-180	-180	
Size of Exceed Material (in)	≤3.94	≤3.94	
Main Motor	Model	YR4508-4	YR4504-4
	Power (kW)	450	800
	Voltage (v)	10000	6000
	Rotate Speed (r/min)	1480	1482
Main Gear Speed Reducer	Model	H2SH11(A)	H2SH13(A)
	speed ratio	7.1	7.1
	Assistant Drive	KF108-A100LA4	KF108-A100LA4
Cooling Machine	Model	4-72No.6A	4-72No.6A
	Type	Y180L-6	Y180L-6
	Power (kw)	15×2	15×2
	Flux (m/h)	8370	8370
	Wind Pressure (pa)	350	350
Weight (kg)	68932	127590	

## PCG Series Drying Hammer Crusher



PCG Series Drying Hammer Crusher is a newly developed crusher. It has combined drying and crushing technology. It was developed and designed by Nanjing Cement Industrial Design & Research Institute of National Building Material Industrial Bureau, based on absorption and assimilation of abroad advanced technology. It is suitable for processing non-abrasion soft material with higher moisture content, and is suitable for "Change wet to dry" of wet-method cement plant and "Wet grounding and burning dry" of expanded cement production line to dry and crush the filtered cake.

Crude material slurry pass through the vacuum filtration to become wet material with 20% water, then been fed into the drying crusher, in the feeding box, the filtered cake contact with introduced hot air, carry out strong heat exchange, then through the distributor. The wet material along with

rotor axle of crusher dispersing initially, most moisture on the cake surface is evaporated, the pre-drying material along with hot air enter into the crushing chamber, and is crushing between arc plate and rotor rotating with linear speed of 30~ 40 m/s, and carry out heat exchange with hot air fully, the fines below 1mm is suspending in the air , along with hot air enter into rising pipeline, the coarse fines is crushing repeatedly until it is drawn off by hot air , the full even crude material is sending into the cyclone decomposing furnace , finally enter into the kiln.

The first PCG Drying Hammer Crusher, which is produced by cooperated work of Shanghai Jianshe Luqiao Machinery Co., and Nanjing Cement Industrial Design & Research Institute , have been put into running in Zhejiang Jianshe cement Co., Ltd. for technical innovation of dry -method production line with decomposing outside kiln, at present time, this product is up to related standards smoothly.

This series product have following major features:

- ◆ Main shaft drive adopt pulley drive with power storing function, energy saving, lower power consumption and with tramp iron protection function.
- ◆ Main shaft cooling etc adopts water-circulation cooling, cooling the rotor shaft fully to ensure long term normal use of bearing.
- ◆ Crushing chamber is lined with plates of heat resisting and wear resisting material to ensure normal service life.

### PCG Series Drying Hammer Crusher Principal Technical Data

Model	PCG-2817	PCG-2821
Rotor Working Diameter (in)	110.24	110.24
Rotor Working Length (in)	69.29	82.68
Pressure of Cooling Water (MPa)	0.35	0.35
Linear Velocity of the Hammer m/s	40	40
Material	Filter Cake	
Size of Feed Material ( in)	≤3.94	≤3.94
Capability/h	50-70	65-80
Feed Water Content %	≤20	≤25
Inlet Wind Temperature °C	520-560	650-750
Exceed Wind Temperature °C	160-200	180-200
Exceed Water Content%	≤1-2%	≤1-2%
Motor	Model	YR4501-6
	Power (kW)	400
	Voltage (v)	6000
	Rotate Speed (r/min)	985
Triangle Strips	Model	25N9000
	Amount	11
Weight (kg)	70100	

## PCX Series Vertical Shaft Fine Impacter



PCX series vertical shaft fine impactor is designed to crush material with compression strength less than 100 MPa. Especially suitable for cement industry to crush brittle material such as limestone, with surface moisture not greater than 15%. It also can be used while fine crushing work is required on construction materials, chemical engineering, mining, metallurgical, etc. Install before mill to increase mill efficiency and receive best milling performance. Adjustable Range of Discharge Opening is less than 5 mm.

PCX Series Vertical Shaft Fine Impacter Principal Technical Data

Models	Max. Feed Size (in)	Adjustable Range of Discharge Opening (in)	Crushing Capacity(m <sup>3</sup> /h)	Electric Motor Power(kW)	Weight (t)
PCX-800×300	3.15	0.2	10~15	37	3.1
PCX-800×400	3.15	0.2	15-20	37	3.5
PCX-800×600	3.94	0.2	15-25	45	3.7
PCX-800×800	3.94	0.2	25-35	75	4
PCX-800×1000	3.94	0.2	30-40	90	5.1

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- ◆ Got to our website [www.shmgca.com](http://www.shmgca.com) and fill out a request form
- ◆ Come directly to us: 44325-B Yale Road West, Chilliwack, BC Canada V2R 4H2 (appointments recommended)

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