



Roller Press system from Hefei (CNBM) Cement R&D Institute



Technology sourced from World Leaders



AMCL MACHINERY LIMITED

Corporate Office: 2, Red Cross place (HNGIL), Kolkata – 700001, WB

Head. Office: 202, Ackruti Centre point, MIDC, Andheri (E), Mumbai-400093

Works: A-1/1, MIDC, Butibori - 441 122, Dist. Nagpur, Maharashtra, INDIA.

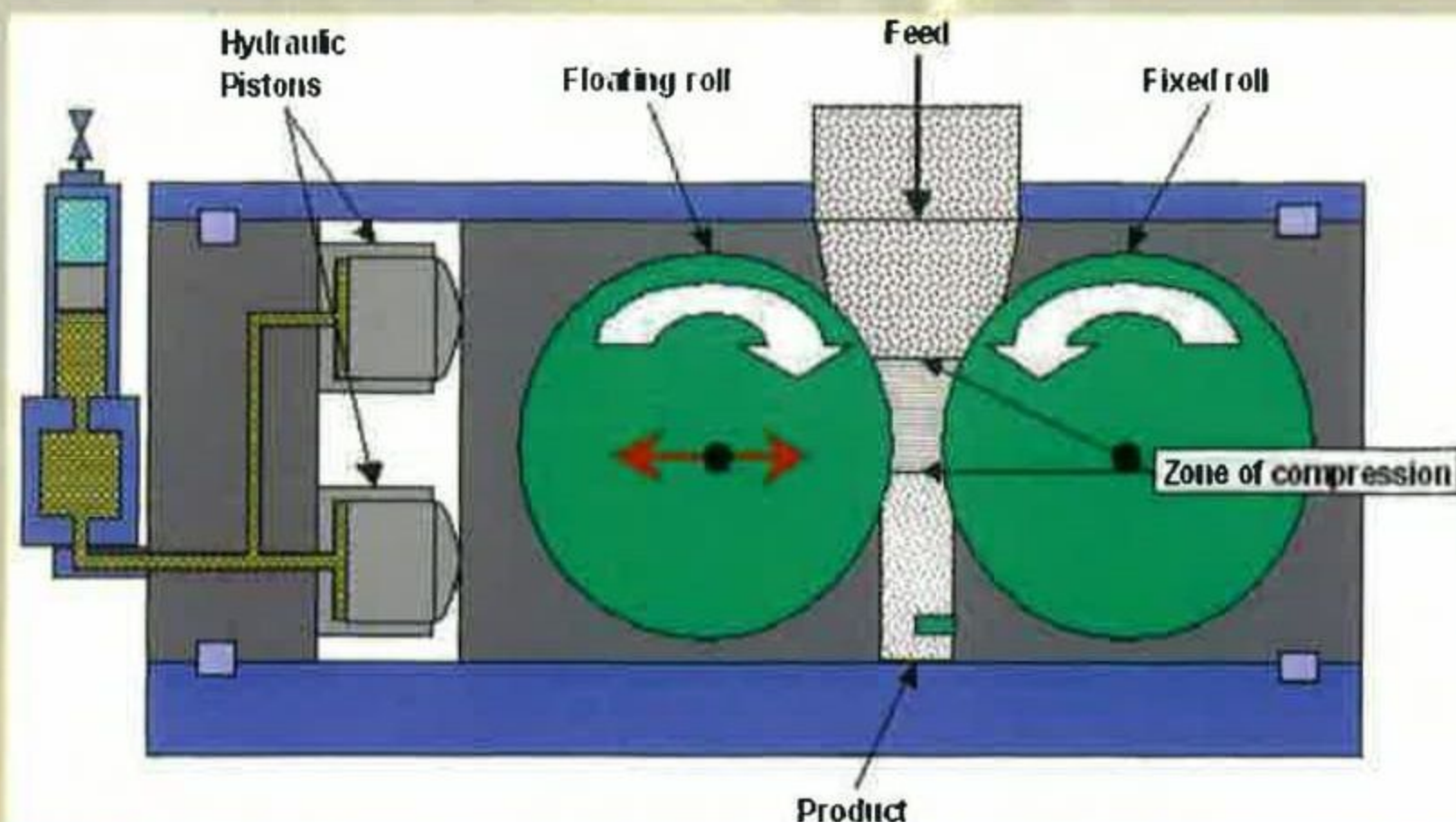
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Introduction

HFCG series of Roller Press is developed by Hefei Cement Research & Design Institute on the basis of acquired advanced foreign technology. The development was completed with the financial support for scientific and technological research and development projects under the state's seventh five years' plan. The first domestic manufactured Roller Press which was successfully applied into industrial production was launched by Hefei Cement Research & Design Institute on 1989. Through the ongoing development was completed with financial support for scientific and technological research and development projects under the state's eighth, Ninth and tenth five years' plans, with the over 20 years' experience of application, the 3rd generation HFCG series which owns proprietary intellectual property rights, has rational design and performance superiority was launched, its running rate can reached over 90%, it have been entitled State's scientific and technological progress second prize twice. The system with roller press may increase capacity by 50%-200%, save energy by 20%-40%. Its techno-economic performances have reached advanced international level.

Working Principle

Two sets of motors rotate two mills rollers via gear reducers. Material inside pipes and bins is extracted into the clearance between the rollers due to actions of gravity and friction. Pressure was exerted on the material between the rollers by a hydraulic system through oil cylinders, bearing seats & bearings, so that the material is comminuted. The comminuted material (cakes) are transported into a breaking classifier via a transport equipment, where the material is broken and classified. The fine particles proceed with the grinding process (finished product can be drawn out of the process) while coarse particles return to roller press for repeated comminution.



Characteristics

- Advanced roller tier structure and welding material technology which increases the life time of the roller surfacing to a great extent, and reduces the operation cost to a great extent as well.
- Constant pressure design concept and unique design which enables hydraulic system more reliable.
- Simple torque support system which enables running of the roller press more stable.
- Advanced monitoring and automatic control system which ensure the safe and stable operation of the roller press.
- Combined steady flow weighing bin for easy material segregation.
- New electric feeding classification for steady running of Roller Press.
- Air classifier for uniform feeding of Roller Press.



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Roller Press Specification

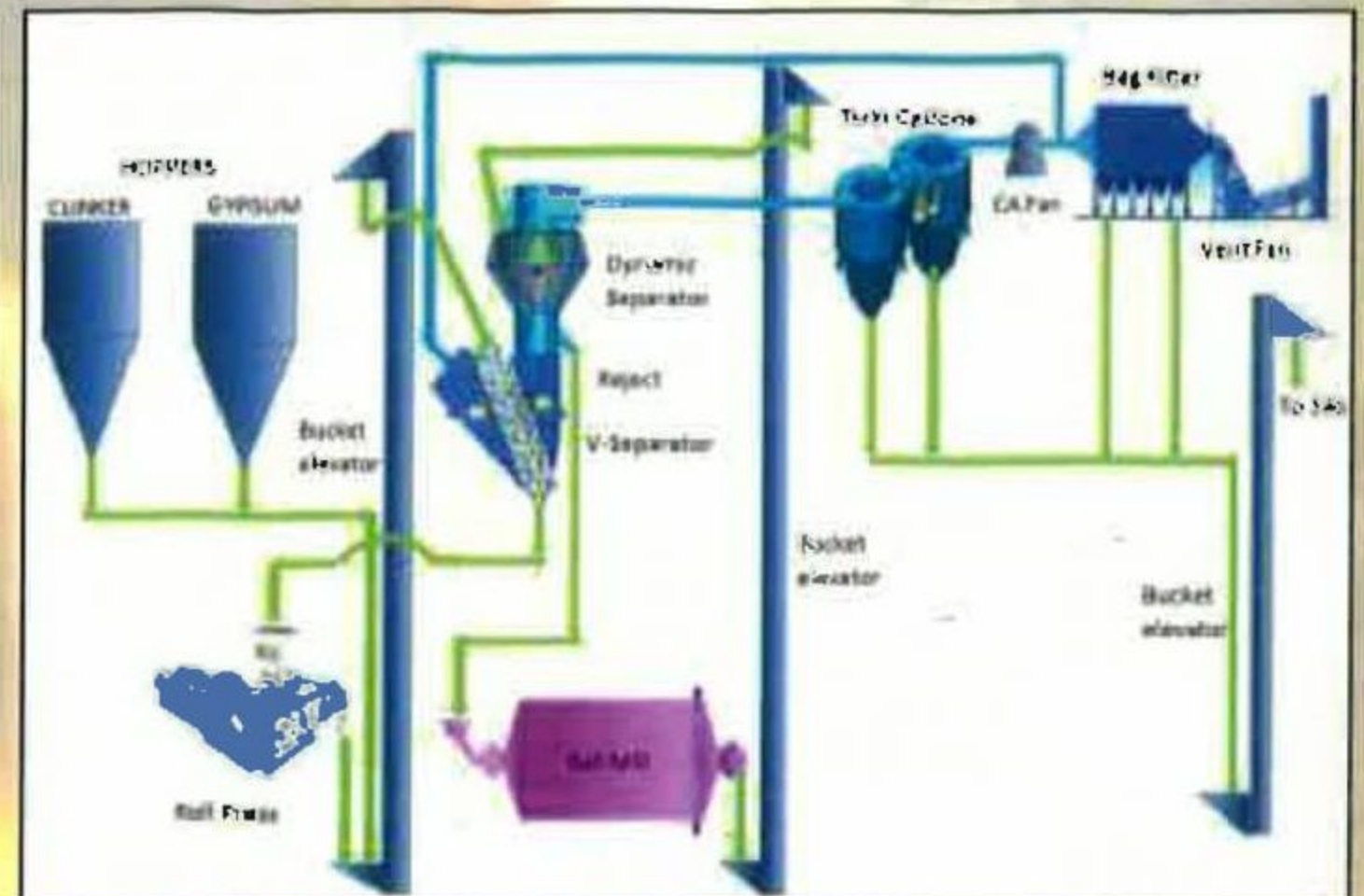
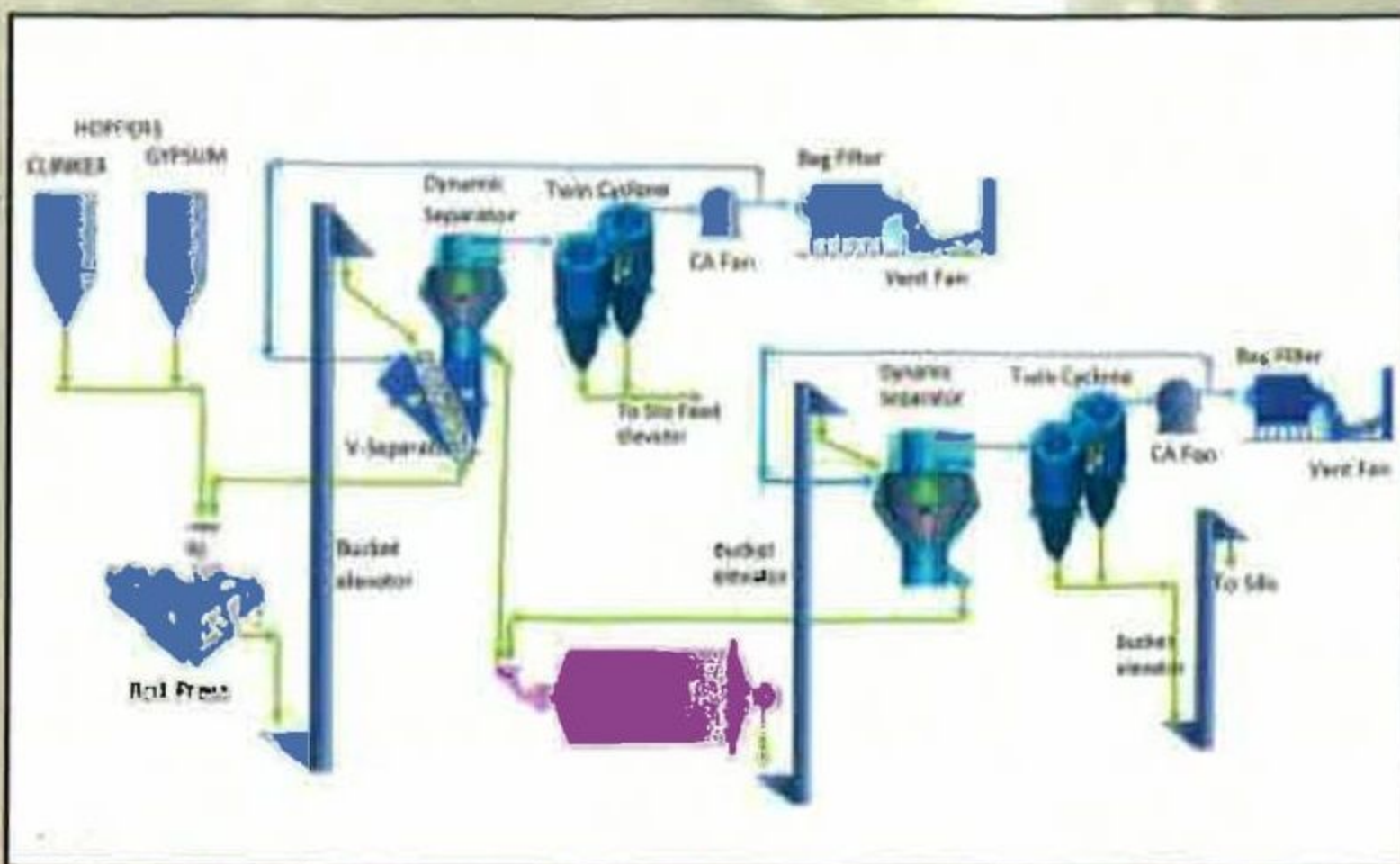
Model	120-45	120-50	120-80	140-65	140-70	140-80	150-100	160-120	160-140	180-120	180-140	180-160	200-160	200-180
Thr.put (tph)	125-150	140-165	85-100	24-295	260-315	295-360	415-500	580-670	680-780	700-850	800-950	950-110	1200-1450	1300-1550
Motor (kW)	2x20	2x20	2x20	2x50	2x50	2x50	2x71	2x90	2x11	2x125	2x14	2x16	2x180	2x200
Roller dia (mm)	120	120	120	1400	1400	1400	1500	1600	1600	1800	1800	1800	2000	2000
Roller wth.(mm)	450	500	800	650	700	800	1000	1200	1400	1200	1400	1600	1600	1800
Inlet size (mm)	≤50	≤50	≤25	≤60	≤60	≤60	≤70	≤70	≤70	≤80	≤80	≤80	≤80	≤80
Feed temp. (°C)	≤130	≤130	≤130	≤130	≤130	≤130	≤130	≤130	≤130	≤130	≤130	≤130	≤130	≤130

Static Separator Specification

Model	HFV 2000	HFV 2500	HFV 3000	HFV 3500	HFV 4000	HFV 5000	HFV 7500	HFV 10000
Thr.put (tph)	~600	~750	~900	~1050	~1200	~1300	~1500	~1850
Air Vol. (m3/hr)	~120000	~150000	~180000	~210000	~240000	~300000	~500000	~700000

Dynamic Separator Specification

Model	SF550/120	SF600/140	SF650/160
Throughput (tph)	140-175	380-600	700-850
Motor (kW)	45+30	55+45	80+75
Breaking Table dia. (mm)	1200	1400	1600
External Dia. (mm)	5500	6000	6500



Roller Press & Ball Mill circuit with individual separator sys. Roller Press & Ball Mill circuit with common separator sys.

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- ✚ Vertical Roller Pre-Grinding Mill (VRPM)
- ✚ Tri - Lobe Rotary Blowers
- ✚ FONS Delta Clinker Cooler
- ✚ Screw Type Pneumatic APS Pump



Head Office at Mumbai



Works at Nagpur

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