



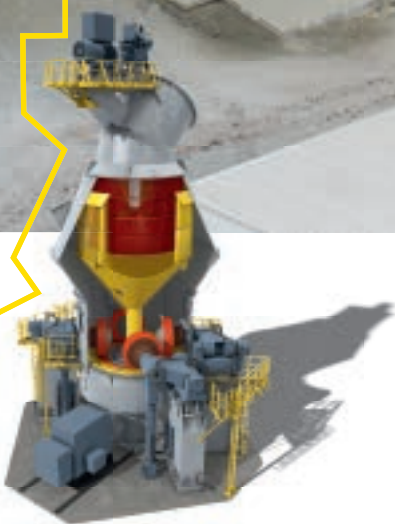
GEBR. PFEIFFER



MODULAR SYSTEM FOR IMMEDIATE MARKET ENTRY



Scan
and watch
animation!



Maximum flexibility with Pfeiffer's ready2grind



// Pfeiffer's modular mill solution enables flexible use in any place, bringing cement producers closer to their customers. This compact system is suited to producing all types of cement - perfect for local cement producers and market entrants as well as for large construction companies aiming to expand their position by manufacturing cement on the spot.

The ingenious design allows the ready2grind plant to be transported and mounted fast and efficiently with manageable costs - making it the perfect concept to respond rapidly to the changing needs of the local cement markets.

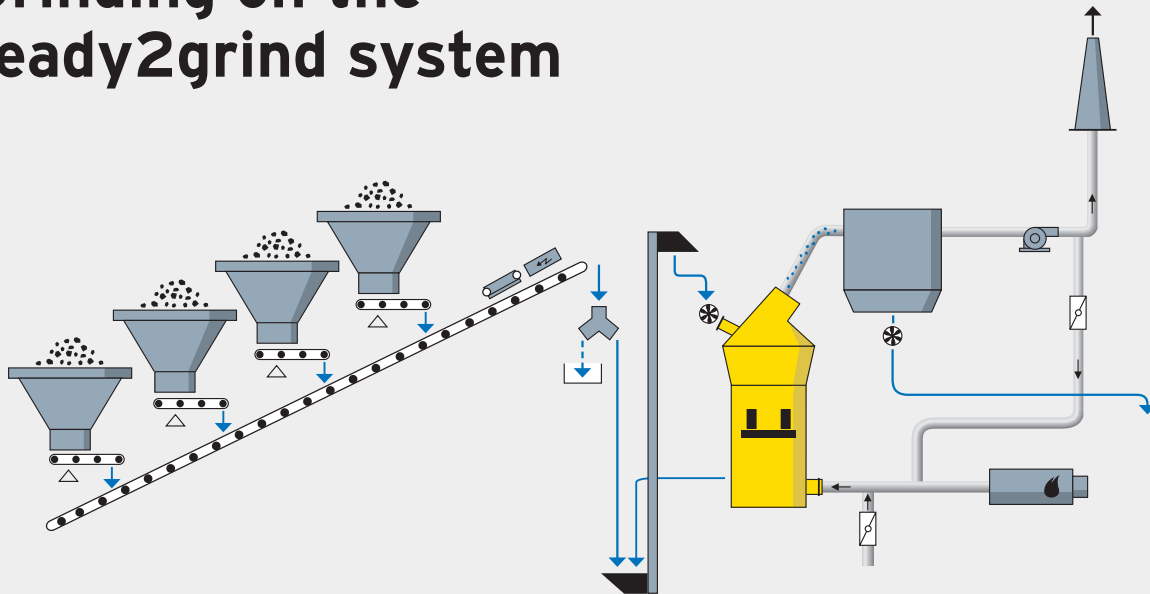
The advantages at a glance:

- » highest reliability, proven concept
- » modules in standard container sizes for cost-efficient transportation
- » rapid delivery, installation and commissioning
- » highest operational availability with moderate investment
- » immediate market entry, short amortization, reduced investment risk
- » maximum flexibility, to react to changing market requirements at short notice

Features:

- » cement of any desired type
- » energy-efficient grinding system
- » different plant sizes available
- » compact modular design
- » flexible feed system
- » pre-assembled modules in standard container sizes
- » perfect for small-scale production
- » also available for other materials such as limestone, gypsum, coal or similar

Grinding on the ready2grind system



// The ready2grind system is extraordinarily compact. The modules in standard container sizes are delivered preassembled. The grinding process is the same as that of bigger Pfeiffer grinding plants. The above flow sheet shows the process of cement grinding as an example. Clinker and additives are ground, dried, and classified in the Pfeiffer vertical mill. Product quality and fineness can be set within wide limits (up to 6000 cm²/g Blaine). The ground and dried product is separated from the process gas in a filter for entire dust collection which is followed by a fan. Downstream of the fan, the volume flow is divided: part of it is returned to the mill while the remainder is evacuated through the exhaust gas chimney.



Scan and see the plant in Costa Rica from an aerial view.



R2G 2500 C-4: The core of the ready2grind in Costa Rica is, as always, an MVR mill with 4 grinding rollers



Proven mill technology for ambitious tasks

// The design of the ready2grind system is based on the Pfeiffer vertical roller mill technology approved across the globe and on the decade-long experience in developing innovative mill technologies. The Pfeiffer vertical roller mill at the core of the ready2grind solution guarantees the highest level of operational reliability.

Benefits of Pfeiffer vertical roller mills:

- » lower electrical power consumption: up to 40 % compared to ball mills
- » few ancillaries required, in principle no mill building necessary
- » maximum availability: minimum maintenance downtime
- » very quick product change-over
- » low vibration level
- » grinding, drying and classifying, all in one machine

Standardized ready2grind systems for different throughput rates



PFEIFFER ready2grind - performance table

■ R2G 1800 C-4 / ■ R2G 2500 C-4 / ■ R2G 3000 C-4

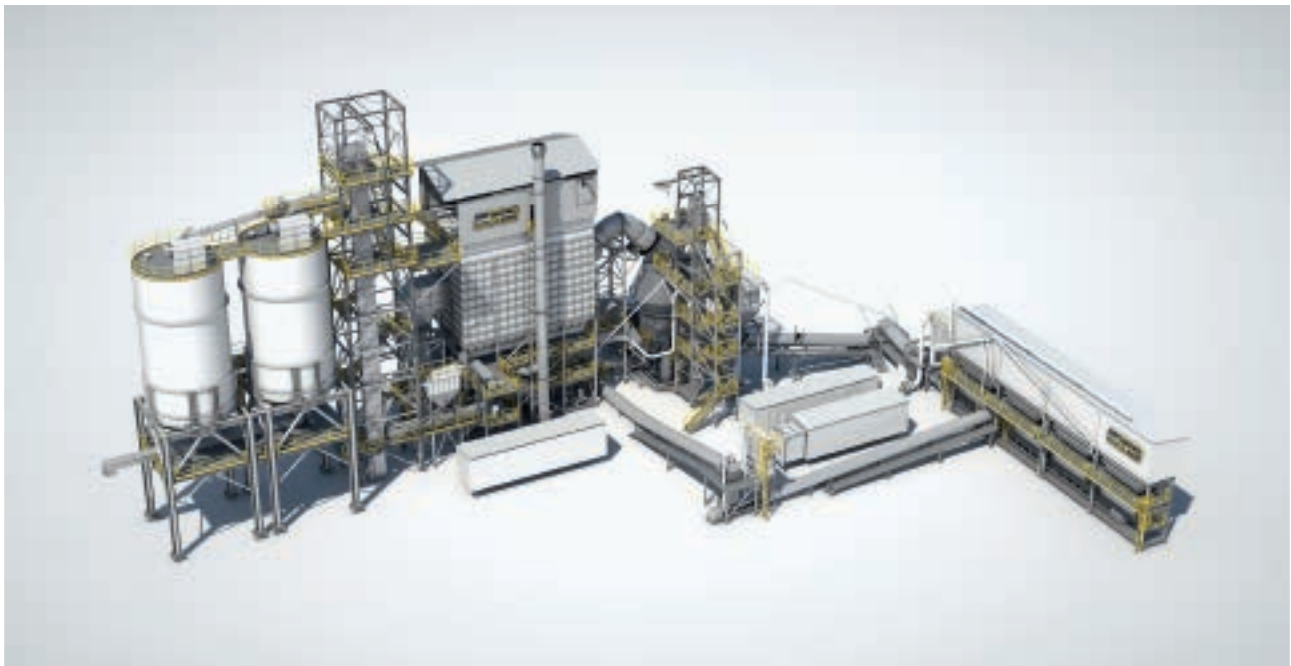
Product	Portland Cement CEM I		Limestone Cement CEM II / B - L		Ground granulated blast-furnace slag (GGBFS)		
	3300	4000	4000	5000	3800	4500	
Fineness acc. to Blaine	3300	4000	4000	5000	3800	4500	
Grindability	kWh/t	17.4	21.4	14.8	18.7	20.5	24.2
Production rate	t/h	29 / 67 / 76	23 / 54 / 62	34 / 79 / 90	27 / 62 / 71	26 / 61 / 70	22 / 52 / 59
Max feed grain size	mm	40 / 60 / 60					
Approx. yearly production rate	t/a	up to 250,000 / up to 580,000 / up to 660,000					
Installed mill motor power	kW	630 / 1450 / 1640					
Total installed power	kW	about 1400 / about 2750 / about 3200					



The world's first modular system with a vertical cement mill - operating in Kenya since February 2017

Construction progress of R2G 1800 C-4





SCOPE OF PLANT AND SERVICES

A. BASE PLANT MODULES

A. 1	Feed material dosing and feed hoppers	A. 4	Plant filter, hot gas generator and fan
A. 2	Material feeding to mill	A. 5	Control system and drives
A. 3	Mill, classifier and ancillaries		

B. OPTIONAL EQUIPMENT MODULES

B. 1	Product transport and storage silos	B. 5	Big bag loading
B. 2	Packing and truck loading	B. 6	Laboratory
B. 3	Palletizing	B. 7	Pre-feeding
B. 4	Bulk loading	B. 8	Transformer station

C. OPTIONAL SERVICE MODULES

C. 1	Operator training	C. 3	Service contracts
C. 2	Maintenance training		

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