

# 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.

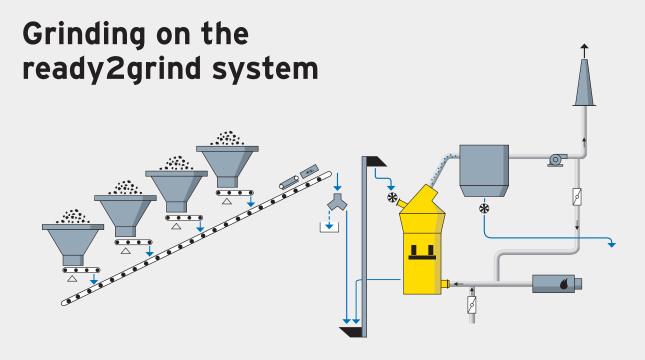
The ingenious design allows the ready2grind plant to be transported and mounted fast and efficiently with manageable costs - making it the perfect concept to respond rapidly to the changing needs of the local cement markets.

## 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



// 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.





# 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

Portland Cement Limestone Cement Group

Product		Portland Cement CEM I		Limestone Cement CEM II / B - L		Ground granulated blast-furnace slag (GGBFS)	
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	<b>29 / 67 /</b> 76	<b>23 / 54 /</b> 62	<b>34 / 79 /</b> 90	<b>27 / 62 /</b> 71	<b>26 / 61 /</b> 70	<b>22 / 52 /</b> 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	<b>630 / 1450 /</b> 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						

#### Gebr. Pfeiffer SE

Barbarossastr. 50-54 67655 Kaiserslautern, Germany Tel.: +49 631 4161 0

Fax: +49 631 4161 290 info@gebr-pfeiffer.com

#### Gebr. Pfeiffer USA

Tel.: +1 954 668 2008 americas@gebr-pfeiffer.com

#### Gebr. Pfeiffer India

Tel.: +91 120 618 8900 india@gebr-pfeiffer.com

#### Gebr. Pfeiffer China

Tel.: +86 10 65 907 006 china@gebr-pfeiffer.com

#### Gebr. Pfeiffer Brasil

Tel.: +55 11 3255 2681 brasil@gebr-pfeiffer.com

#### Gebr. Pfeiffer Egypt

Tel.: +20 103 333 9581 mena@gebr-pfeiffer.com

#### Gebr. Pfeiffer Malaysia

Tel.: +60 376 224 252 seasia@gebr-pfeiffer.com

#### Gebr. Pfeiffer Russia

Tel.: +7 495 136 65 98 cis@gebr-pfeiffer.com