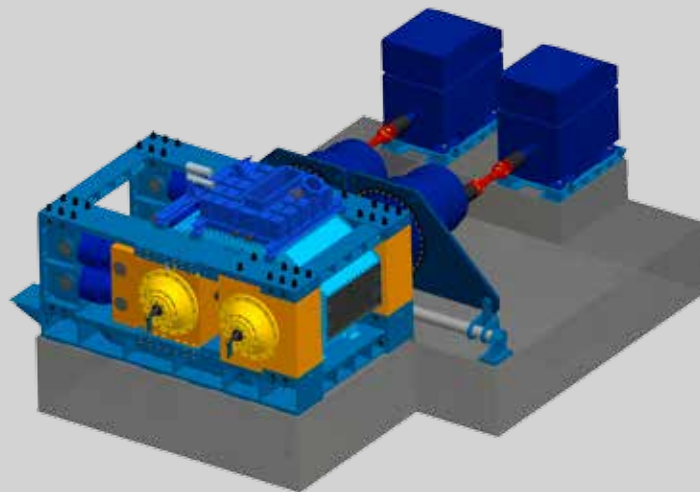




Sinoma Sinoma International
Engineering Co., Ltd.

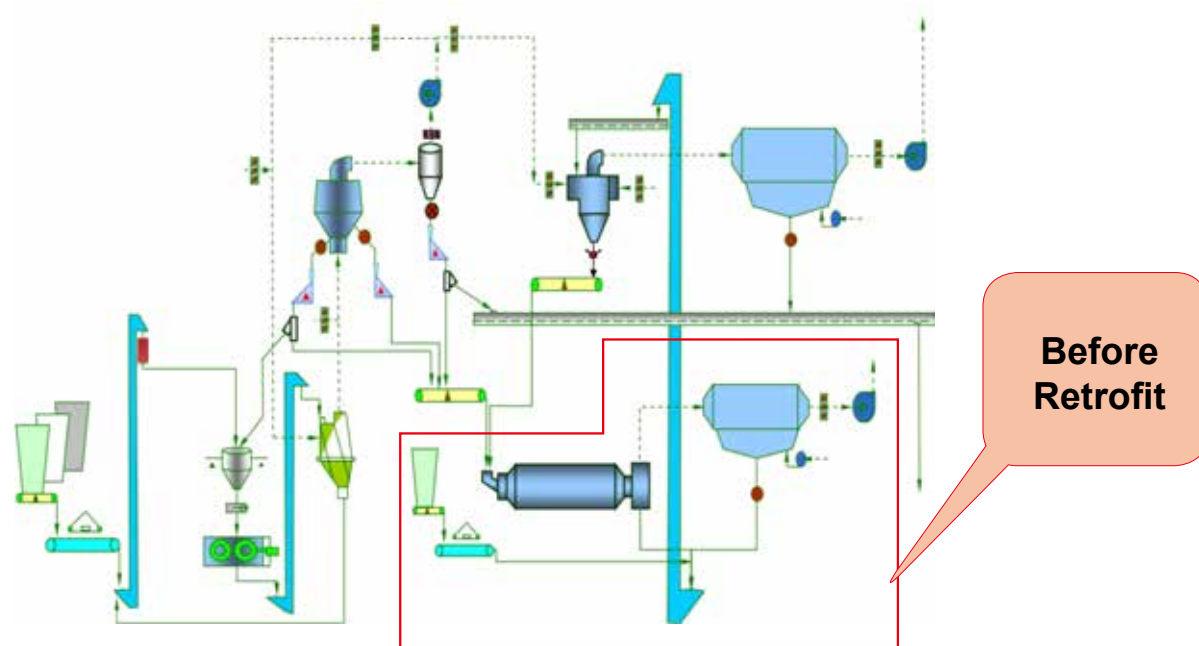
Roller Press Retrofit Solution



SINOMA TECHNOLOGY & EQUIPMENT GROUP CO., LTD.

1 PROCESS

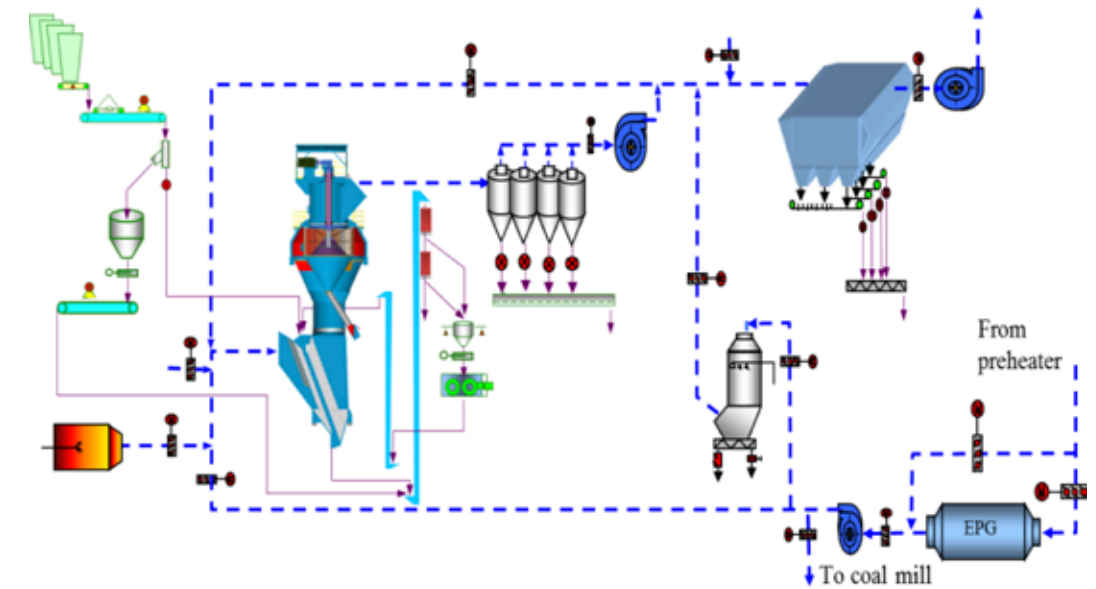
Cement grinding system retrofit



Technical Characteristic:

- 1) Markedly increase the capacity by 50% ~ 200%.
- 2) Effectively reduce the system power consumption by 25% ~ 40%.
- 3) Significantly decrease the temperature of cement
- 4) Effectively lower the abrasive wear of ball to 15 g/t
- 5) Easily operate and control roller press system and ball mill system relatively independent.

Raw Meal grinding system



Technical Characteristic:

- 1) Creatively develop the vertical rotor combined Separator
- 2) Effectively control the 200 μ m sieve
- 3) Significantly improve the quality of raw meal
- 4) Greatly enhance the system drying capacity
- 5) Markedly decrease the system pressure drop

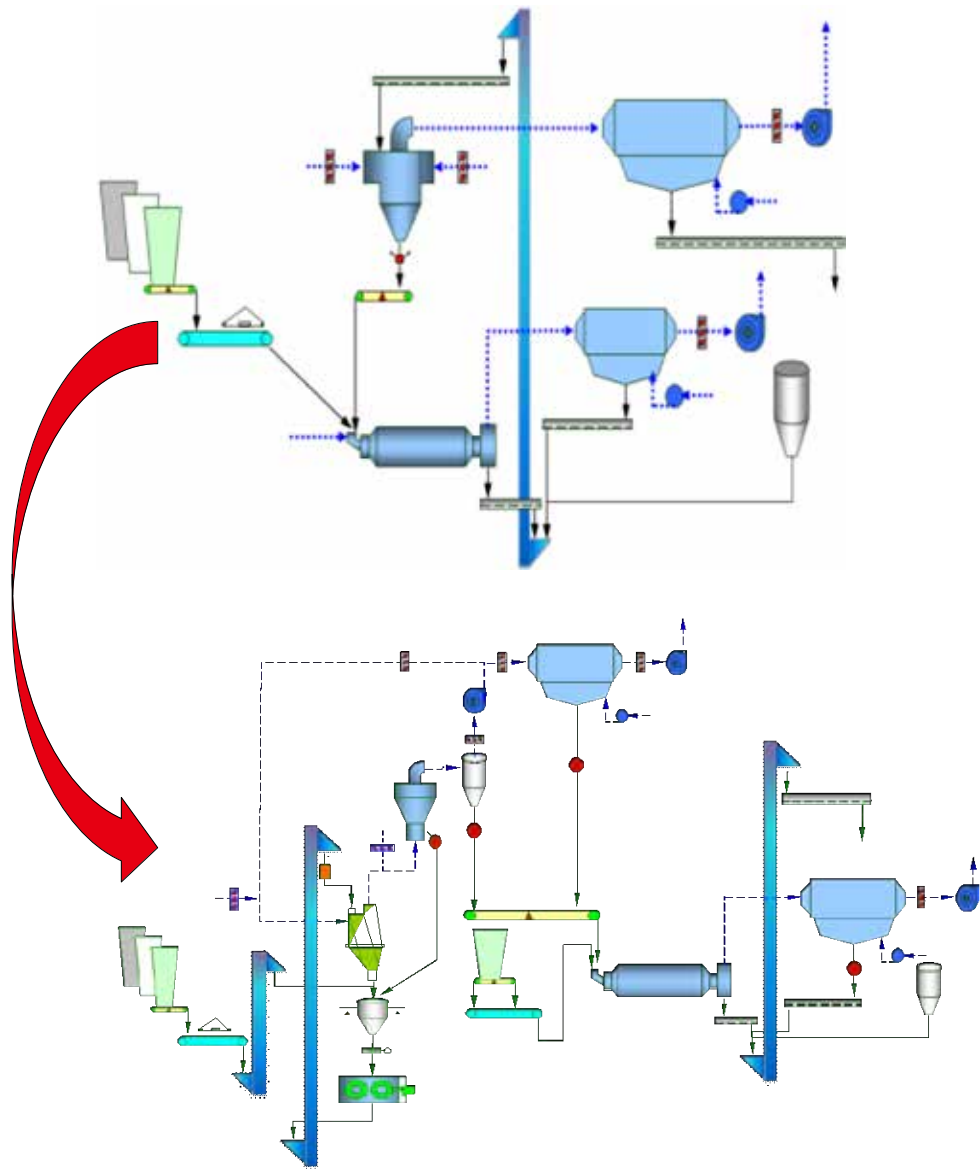
System performance

Item	After Retrofit
Capacity	Raw Meal: +50~110%
	Cement: +50~200%
Power consumption	Raw Meal: -45~50%
	Cement: -25% ~ 40%
Working period	100~180 days



2 TYPICAL

Case 1 Tianjin Zhenxing Cement Grinding System Retrofit

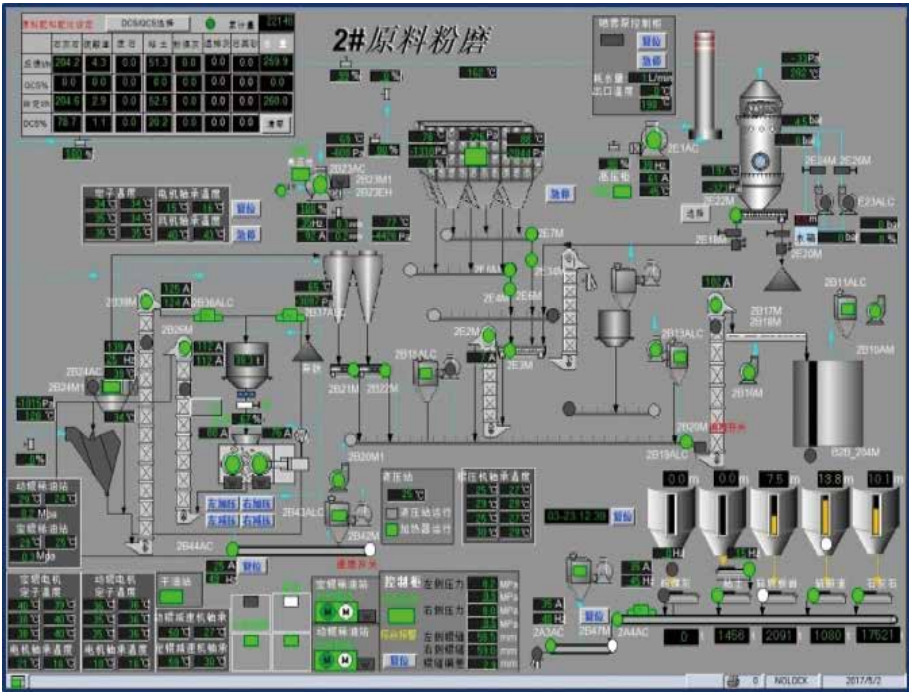
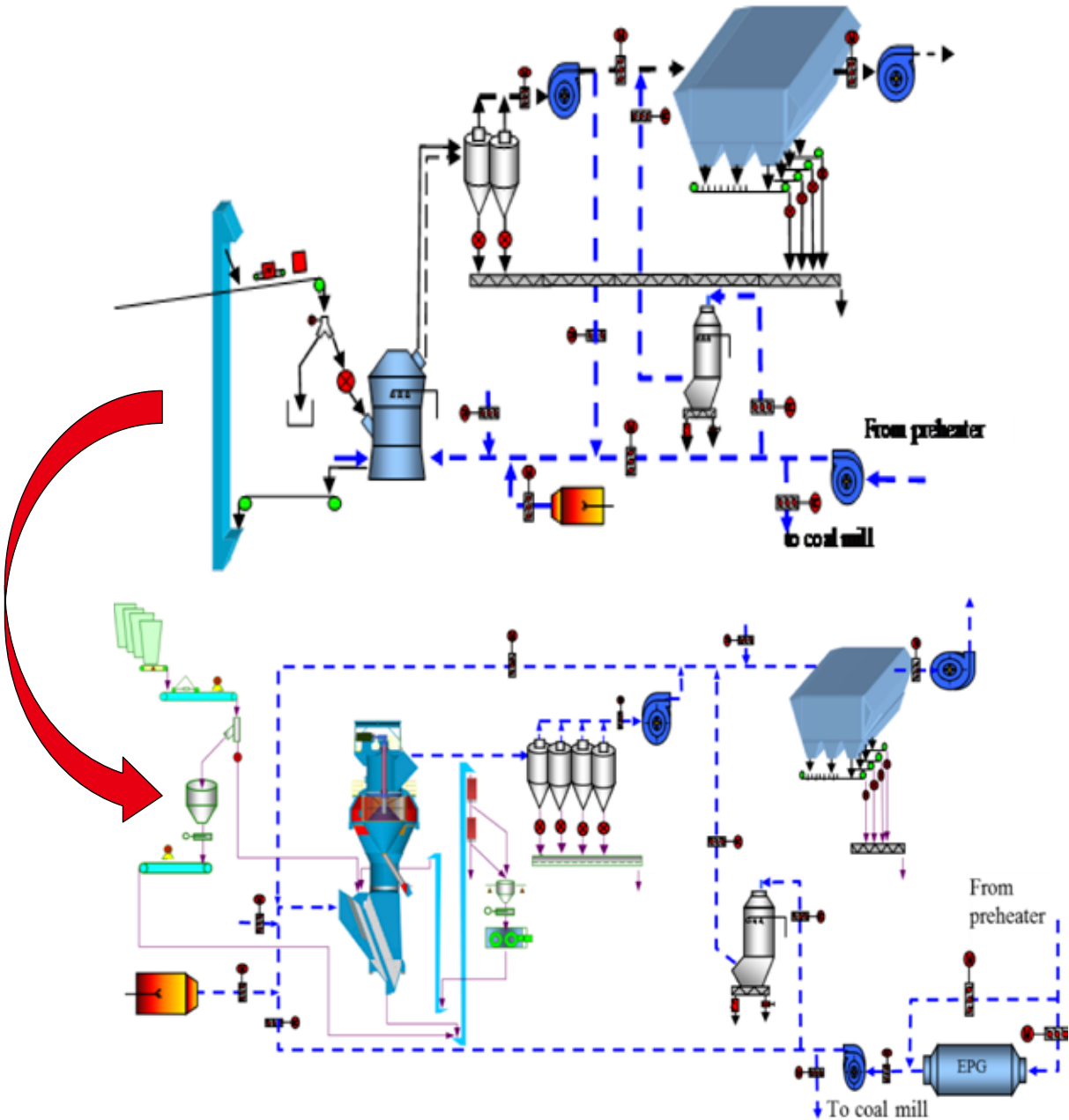


Item	Unit	Before	After
System capacity	t/h	65	180~190
System power consumption	kWh/t	40~42	32~34
Blaine	m ² /kg	365	370
Water requirement	%	28~29	27.5~28.0

Process flow	Semi-final grinding system with open circuit mill
Mode of equipment	TRP180-140 2X1400kW
Model of Ball mill	Φ3.8x13m 2500kW
Model of Separator	TESup-310 220kW
V-separator	TVS-96/24
Air volume of System m ³ /h	260000
Working period	180 days



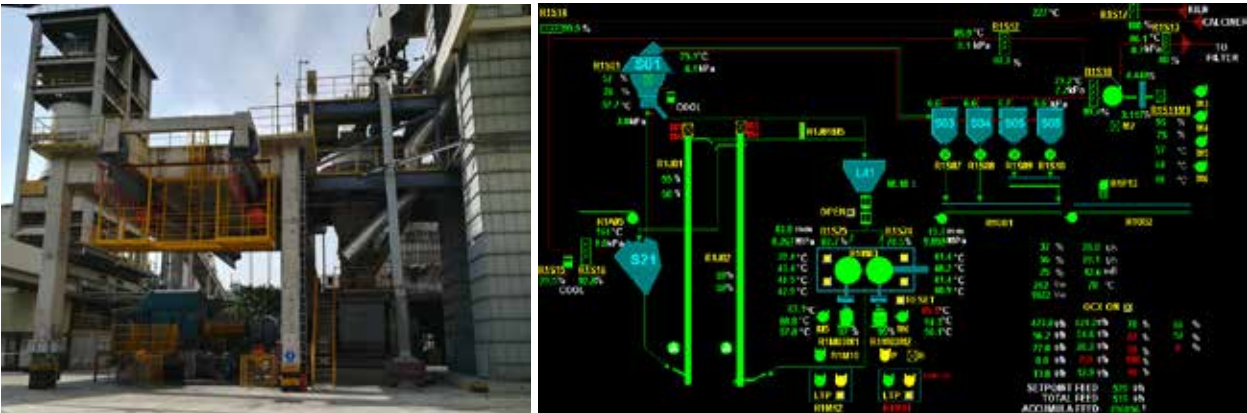
Case 2 Qilianshan Group Yongdeng Raw Meal System Retrofit



Item		Contract Guarantee	Before Retrofit	After Retrofit
Mode of equipment			Atox37.5	TRP180~120
Installed power/ kW			1830	2 × 1250
Grindability (Bond) / kWh/t		kWh/t	11.58	11.58
R80 μ m/%		≤ 15	12	7.75
R200 μ m/%		≤ 2.0		1.53
Capacity / (t/h)		≥ 230	188	260
Moisture /%		≤ 0.5	1.0	0.5
Running time/day(h)			18.4	13.3
Power consumption (kWh/t)	Roller mill/ Roller press		9.3	4.5
	Circulating Fan		10.1	2.2
	others		1.6	2.4
	system	≤ 13	21	9.1



Case 3 China Century Cement Ltd. (A Joint Venture of Heidelberg & China Resources) Raw Meal System Retrofit



System		Guaranteed	Ball mill	Roller press
Mode of equipment			5.6 × 11+4.4	TRP220-160
Installed power/ kW			5600	2 × 2000
Grindability (Bond) kWh/t			11.5	11.8
R80 μ m/%		≤ 16	21.8	15.3
R200 μ m/%		≤ 1.5	2.5	1.3
Capacity/(t/h)		≥ 450	366	511.29
Moisture/%		≤ 0.5	0.25	0.5
Running time/day(h)			24	17.2
Power consumption (kWh/t)	Ball mill/ Roller press		13.88	7.52
	Mill fine crusher		0.41	\
	Circulating Fan		3.16	3.18
	others		4.56	2.14
	system	< 13	22.01	12.74

3 REFERENCES

Cement grinding system retrofit

NO.	Owner	Type	Quantity	Remark
1	Hubei Jinglan Cement Group	TRP140-80	12	combined cement grinding
2	Yakeshi Menxi Cement Co., Ltd	TRP160-140	2	combined cement grinding
3	Ningxia Building Materials Group(Liupanshan)Co.,Ltd	TRP120-60	2	combined cement grinding
4	Henan Jinrong Cement Co.,Ltd	TRP140-80	1	combined cement grinding
5	Turkey Votorantim Cement Plant	TRP140-100	1	Pre-cement grinding
6	Yatai Group(Dinglu)Cement Co.,Ltd	TRP140-120	1	semi-finished cement grinding
7	Ningxia Building Materials Group(zhongning)Co.,Ltd	TRP140-80	2	combined cement grinding
8	BBMG(Tianjin Zhenxing) Cement Co.,Ltd	TRP180-140	1	combined cement grinding
9	Turkey Bastas Cement Manufacuring Plant	TRP180-140	2	semi-finished cement grinding
10	Tangshan Kaifa Cement Co., Ltd	TRP140-80	1	combined cement grinding
11	Liaoning Sannsy gongyuan Cement Co., Ltd	TRP140-120	2	semi-finished cement grinding
12	Tacheng Nangang Cement Co.,ltd	TRP180-160	1	combined cement grinding
13	Shandong Yizhou Cement Co.,ltd	TRP160-140	2	combined cement grinding
14	Qu Zhai cement Co., Ltd	TRP180-170	1	semi-finished cement grinding
15	Tangshan Kaifa Cement Co., Ltd	TRP140-140	1	combined cement grinding
16	Bo Ai BBMG Corporation	TRP180-140	1	combined cement grinding
17	Indonesia Bosowa Group Maros	TRP180-140	1	combined cement grinding
18	Henan Jinrong Cement Co.,Ltd	TRP180-170	2	combined cement grinding



Raw meal grinding system retrofit

NO.	Owner	Type	Quantity	Remark
1	Sinoma(Pingxiang)Cement Co.,Ltd	TRP180-140	2	raw meal final grinding
2	Ningxia Building Materials Group(Lanshan) Co.,Ltd	TRP180-140	2	raw meal final grinding
3	BBMG(Zuoquan) Cement Co.,Ltd	TRP180-170	1	raw meal final grinding
4	Qilianshan Group(Gulang)Cement Co.,Ltd	TRP220-160	1	raw meal final grinding
5	Qilianshan Group(zhanxian)Cement Co.,Ltd	TRP220-160	1	raw meal final grinding
6	BBMG(Zanhuang) Cement Co.,Ltd	TRP180-170	1	raw meal final grinding
7	QSCC Cement Co.,Ltd	TRP180-170	2	raw meal final grinding
8	BBMG(Luquan Dingxin) Cement Co., Ltd	TRP180-140	3	raw meal final grinding
9	BBMG(Chengde) Cement Co., Ltd	TRP180-170	2	raw meal final grinding
10	Zaozhuang Sannsy Cement Co., Ltd	TRP200-120	1	raw meal final grinding
11	Pakistan Cherat Clinker Production Line Project	TRP180-140	1	raw meal final grinding
12	Turkey Kavcim Cement Company	TRP180-140	1	raw meal final grinding
13	Daye Jianfeng Cement Co.,Ltd	TRP220-160	1	raw meal final grinding
14	BBMG Baoding Taihang Heyi Cement Co.,Ltd	TRP180-140	1	raw meal final grinding
15	China Century Cement Ltd	TRP220-160	1	raw meal final grinding
16	BBMG Boai Cement Co., Lt	TRP180-140	1	raw meal final grinding
17	Xingtai Jinyu Yongning Cement Co., Lt	TRP180-140	2	raw meal final grinding
18	BBMG(Tianjin Zhenxing) Cement Co.,Ltd	TRP140-140	1	raw meal final grinding
19	BBMG(Zanhuang) Cement Co.,Ltd	TRP180-140	1	raw meal final grinding
20	Qilianshan Group(Yongdeng)Cement Co.,Ltd	TRP180-120	2	raw meal final grinding
21	Yunnan Haolong Group	TRP160-140	1	raw meal final grinding
22	Henan Jinrong Cement Co.,Ltd	TRP220-160	1	raw meal final grinding
23	Zhejiang Jinyuan Cement Co.,Ltd	TRP180-120	1	raw meal final grinding
24	South Cement Company Limited (Wuhu) Cement plant	TRP180-170	1	raw meal final grinding
25	South Cement Company Limited (Changxing) Cement plant	TRP200-160	1	raw meal final grinding



Roller Press Retrofit Solution



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