

## GGBS Vertical Roller Mill



**Application Industry:** Cement Plant, Grinding Station, Steel Mill

**Output:** 50~180 t/h

**Blaine Fineness:** 4200~4500 cm<sup>2</sup>/g

**Power Consumption of System:** ≤43 kWh/t

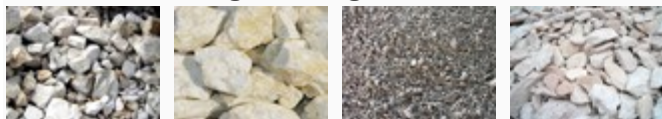
### Introduction:

GGBS vertical roller mill is the equipment to grind Ground Granulated Blast furnace Slag (GGBS) into small particles. GGBS (fineness:4200-4500cm<sup>2</sup>/g) produced by vertical roller mills are being used to substitute clinker in conventional cement manufacturing as well as to partially replace OPC for ready-mixed concrete production, for which the percentage of GGBS usage is typically at 10-15% and 20-25% respectively.

Our vertical slag mill is typically designed to deal with industrial waste residues generated by the blast-furnace iron making. Due to its high physical and chemical activity, and potential hydraulicity, the slag has been widely as admixture matters in the cement industry. And the slag can replace the cement in the concrete to improve the quality and durability of the concrete.

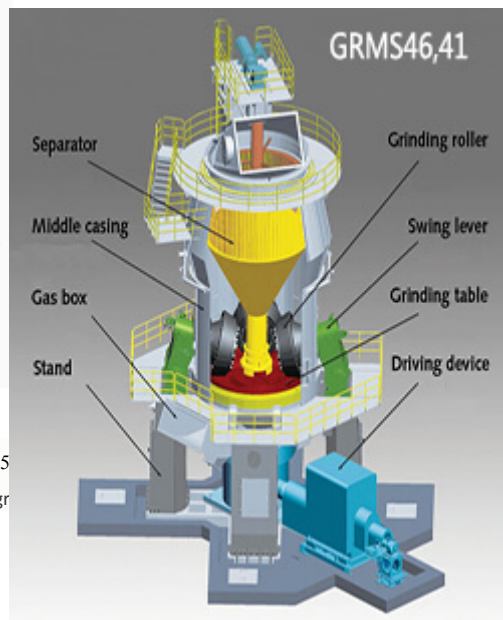
### Applied material:

Blast-Furnace Slag, building material, limestone, slag, rock, talc, etc.



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#### **Iron extraction system**

It is a well-known fact that iron particles in the granulated blast furnace slag are the main cause of wear in the mill. Therefore it is extremely important to remove the maximum possible amount of this iron.

The external material circuit is very well suited for this purpose, because it handles a large quantity of material, some of which is already partly ground.

#### **Wear protection**

The grinding plant, which is carefully maintained by the owner, provided high availability and trouble-free operation.

None of the wear protection plates in the mill housing and in the grit cone of the separator have yet needed replacing.

Only the ceramic castable in the upper housing section of the separator was replaced by wear-resistant steel plates soon after the commissioning.

#### **Specifications**

Model	Grinding Table Diameter (mm)	Roller Diameter (mm)	Roller Number (n)	Motor (kW)	Output (t/h)
GRMS26.21	2600	1600	2	1000	30
GRMS33.31	3300	1700	3	1600	50
GRMS35.31	3500	1800	3	1800	60
GRMS40.41	4000	1900	4	2240	70
GRMS43.41	4300	2120	4	2800	90
GRMS46.41	4600	2240	4	3150	105
GRMS48.41	4800	2240	4	3550	125
GRMS50.41	5000	2360	4	3800	140
GRMS53.41	5300	2500	4	4200	160
GRMS56.61	5600	2500	6	5000	180