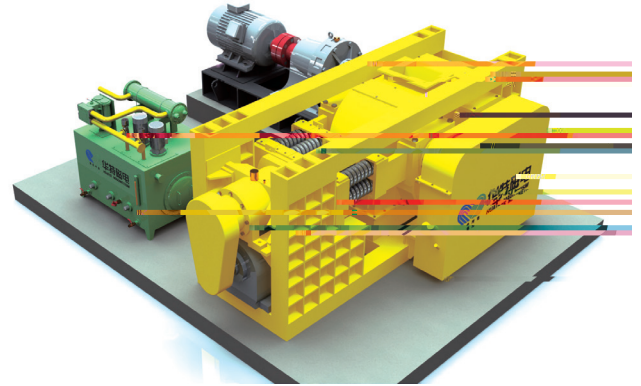


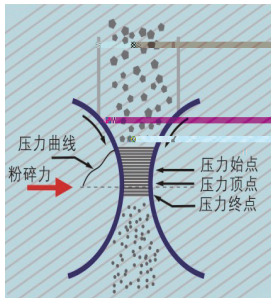
## SINGLE DRIVE HIGH PRESSURE GRINDING ROLL

Application, Structure



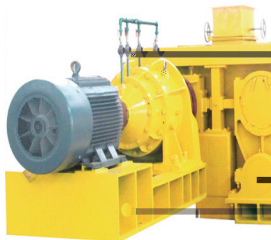
Single drive high pressure grinding roll is a kind of equipment used for grinding and crushing of various materials. It is widely used in the fields of metallurgy, chemical industry, and other industries. The machine is composed of a motor, a drive shaft, a grinding roll, and a discharge chute. The grinding roll is the main part of the machine, which is used to crush the material. The discharge chute is used to collect the crushed material. The machine is simple in structure and easy to operate. It has a high grinding efficiency and a long service life.

### Structure & Working Principle



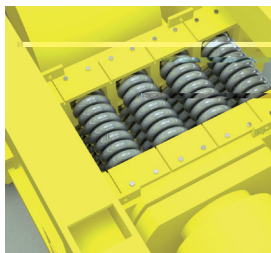
#### Working Principle Diagram

The single drive high pressure grinding roll is a kind of equipment used for grinding and crushing of various materials. It is widely used in the fields of metallurgy, chemical industry, and other industries. The machine is composed of a motor, a drive shaft, a grinding roll, and a discharge chute. The grinding roll is the main part of the machine, which is used to crush the material. The discharge chute is used to collect the crushed material. The machine is simple in structure and easy to operate. It has a high grinding efficiency and a long service life.



#### Structure

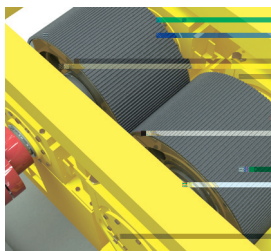
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#### Structure and Working Principle

95%

The crushing efficiency of the single drive high pressure grinding roll is 95%. It is a kind of equipment used for grinding and crushing of various materials. It is widely used in the fields of metallurgy, chemical industry, and other industries. The machine is composed of a motor, a drive shaft, a grinding roll, and a discharge chute. The grinding roll is the main part of the machine, which is used to crush the material. The discharge chute is used to collect the crushed material. The machine is simple in structure and easy to operate. It has a high grinding efficiency and a long service life.



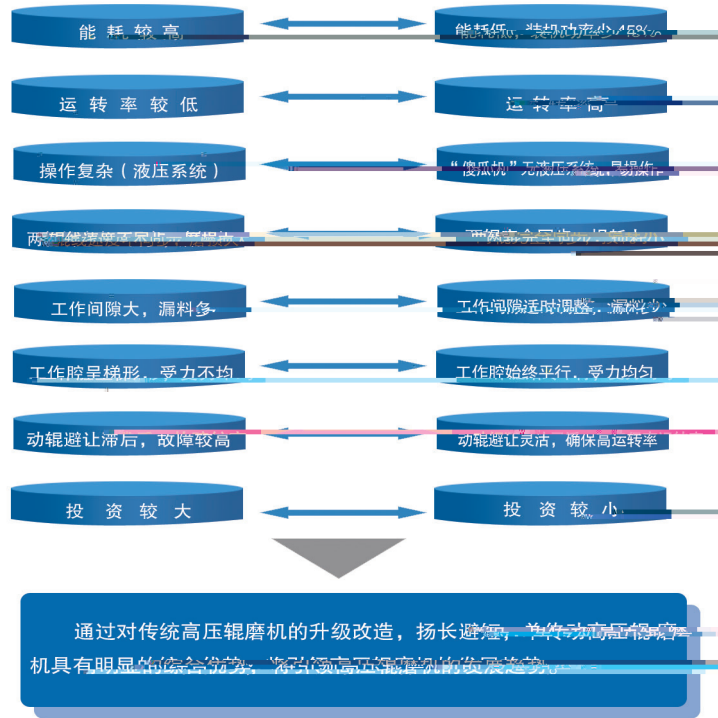
#### Roll Surface

HRC58-65

The roll surface is made of HRC58-65 steel. It is a kind of equipment used for grinding and crushing of various materials. It is widely used in the fields of metallurgy, chemical industry, and other industries. The machine is composed of a motor, a drive shaft, a grinding roll, and a discharge chute. The grinding roll is the main part of the machine, which is used to crush the material. The discharge chute is used to collect the crushed material. The machine is simple in structure and easy to operate. It has a high grinding efficiency and a long service life.



COMPARISON BETWEEN SINGLE DRIVE HPGR AND CONVENTIONAL HPGR

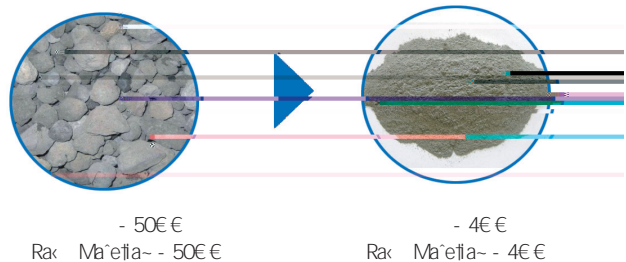
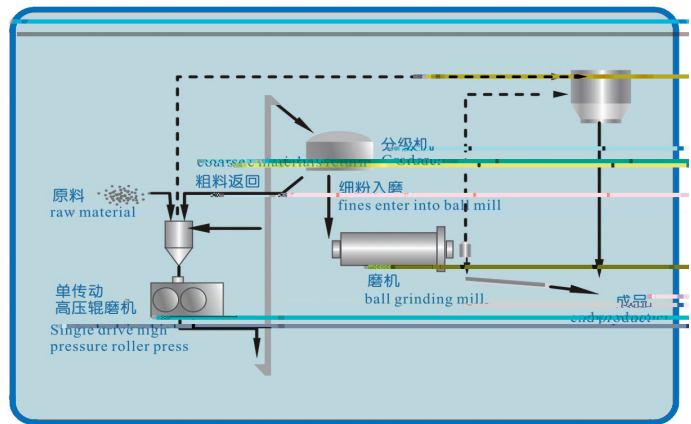


PRE- GRINDING PROCESS FLOW CHART OF SINGLE DRIVE HPGR

Pre-grinding process flow chart of single drive HPGR

- 0.5€€      0.08€€      30%      - 4€€  
 50-100%      15-30

The process flow chart shows the pre-grinding process of single drive HPGR. It starts with raw material (粗料) entering a single drive high pressure roller mill (单传动高压辊磨机). The material is then sent to a classifier (分级机). The classifier separates the material into coarse material (粗料) which is returned to the roller mill (粗料返回), and fines (细粉) which enter the ball mill (细粉入磨). The ball mill produces the final product (成品). The roller mill has a capacity of 50-100% and the ball mill has a capacity of 15-30%. The roller mill investment is 0.5€€ and the ball mill investment is 0.08€€. The roller mill has an efficiency of 30% and the ball mill has an efficiency of 15-30%. The roller mill has a capacity of 50-100% and the ball mill has a capacity of 15-30%.

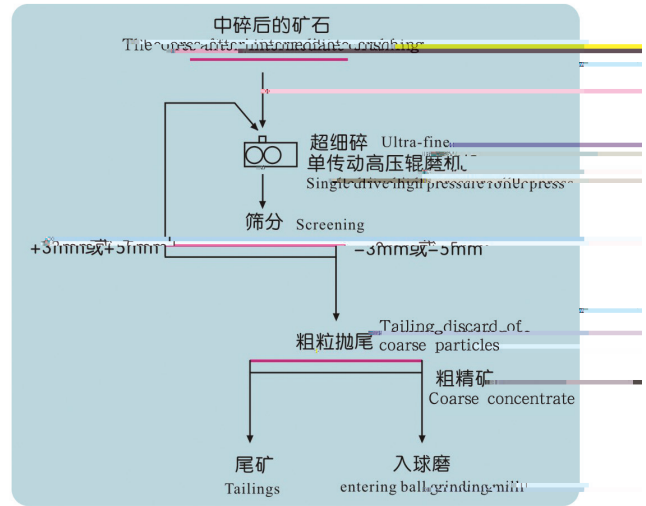


ULTRA FINE CRUSHING PROCESS FLOW CHART OF METALLIC MINERAL WITH SINGLE DRIVE HPGR

Ultra Fine Crushing of Metallic Mineral

- 3€

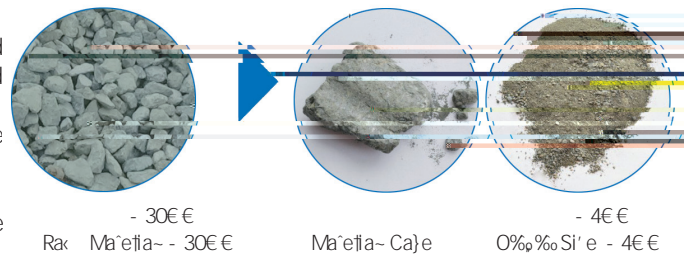
- 5€



When the ultra-fine crushing process is completed, the high pressure grinding roll will produce a large amount of ultra-fine particles. The ultra-fine particles will be sent to the ball mill for further grinding. The coarse concentrate will be sent to the ball mill for further grinding. The tailings will be discarded.

The ultra-fine crushing process is a key step in the ultra-fine crushing process. The ultra-fine crushing process will produce a large amount of ultra-fine particles. The ultra-fine particles will be sent to the ball mill for further grinding. The coarse concentrate will be sent to the ball mill for further grinding. The tailings will be discarded.

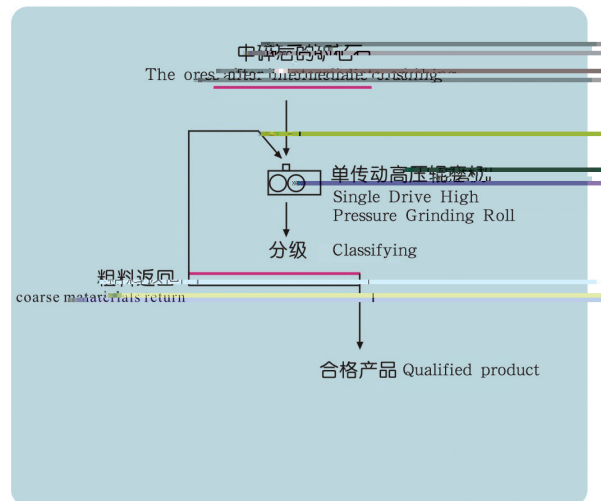
By the ultra-fine crushing process, the ultra-fine particles will be produced. The ultra-fine particles will be sent to the ball mill for further grinding. The coarse concentrate will be sent to the ball mill for further grinding. The tailings will be discarded.



APPLICATION PROCESS FLOW CHART FOR NON-METALLIC MINERAL WITH SINGLE DRIVE HPGR

Non-Metallic Mineral Grinding

20 - 120



The ultra-fine crushing process is a key step in the ultra-fine crushing process. The ultra-fine crushing process will produce a large amount of ultra-fine particles. The ultra-fine particles will be sent to the ball mill for further grinding. The coarse concentrate will be sent to the ball mill for further grinding. The tailings will be discarded.

