

Ball mill and spiral classifier be closed-grinding system



WELL-TECH EQUIPMENT
威尔国际矿业装备

Application

This equipment is used by the beneficiation Experimental Research Institute and the beneficiation intermediate experimental factory for continuous grinding or for studying and determining the grindability index of ores when carrying out the ore wash ability research experiment. It can also be used as grinding equipment in concentrator or for grinding fine materials in other industrial sectors.

Features

The equipment consists of 420 *450 grid ball mill, 150 *1200 spiral classifier, 35-liter Swaying feeder and 90 *600 spiral conveyor, **which can be used for continuous closed-circuit grinding.**

Electrical equipment and water supply system have been installed when the equipment leaves the factory.

No additional foundation is required for installation. After opening the box, install four foot bolts at the lower part of the rack, clean up the packing grease, check the lubrication, connect the water pipe and power supply. Trial start-up, determine the direction of operation, can be operated in accordance with the order of operation.

According to the properties of the treated materials and the specific requirements for the granularity characteristics of the grinding products, the following three different grinding processes can be selected for grinding:

1. grinding in advance and checking and classifying;
2. Pre-classification, sand return and grinding;

3. Start grinding.

Main technical parameters:

NO	ITEM	Parameters	unit
1	Feeding size	5-10	mm
2	Output size	-0.074(95%)	mm
3	capacity	45-90	Kg/h
4	Total power	2.12	kw
5	dimension (L×W×H)	1630×1260×1730	mm
6	Total weight	800	kg

Main machine model

1、 ϕ 420×450 ball mill

NO	Item	parameters	unit
1	drum	diameter	ϕ 420
		length	450

2	volume		60	L
3	speed		57	r/min
4	Ball weight	$\phi 35-\phi 40$	40	kg
		$\phi 30-\phi 35$	30	kg
		$\phi 25-\phi 30$	20	kg
		$\phi 20-\phi 25$	10	kg
5	Feeding size		5-10	mm
6	Output size		95%-0.074	mm
7	capacity		45-90	Kg/h
8	motor	model	Y100L-6	
		power	1.5	kw
		speed	940	r/min

2、 $\phi 150 \times 1200$ spiral classifier

NO	Item		parameters	unit
1	spiral	diameter	$\phi 150$	mm
		length	1200	mm
2	Overflow surface width		240	mm
3	Inclination adjustment range		10-30	
4	speed		18, 23, 30	r/min
5	capacity	Sand return	500	Kg/h
		overflow	260	Kg/h
6	motor	model	AO ₂ -7114	
		power	0.25	kw
		speed	1400	r/min

3、35L swaying feeder

NO	Item		parameters	unit
1	volume		35	L
2	Swinging times		19	r/min
3	capacity		6-200	Kg/h
4	motor	model	A02-6314	
		power	0.12	kw
		speed	1400	r/min

4、 $\phi 90 \times 600$ spiral conveyor

NO	Item		parameters	unit
1	spiral	diameter	$\phi 90$	mm
		length	600	mm
2	speed		23	r/min
3	Motor	model	AO ₂ -7114	

		Power	0.25	kw
		speed	1400	r/min