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Milling
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TENCAN

Product Brochure



PLANETARY BALL MILL SERIES

Continuous planetary ball mill

LXYM

This innovative continuous planetary ball mill is an efficient powder processing equipment, ideal for nano-scale materials and ultra-fine powder research, teaching, testing, and production.

<https://www.labballmill.com/products/grinding-series/planetary-ball-mill/continuous-planetary-ball-mill.html>

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Product Overview

This innovative continuous planetary ball mill is an efficient powder processing equipment, ideal for nano-scale materials and ultra-fine powder research, teaching, testing, and production.



Product Introduction

This model is a newly invented high-efficiency planetary powder processing equipment. It is the first choice equipment for scientific research, teaching, testing and production of nano-level materials and ultra-fine powders. Mainly used for molecular chain scission activation ; Nanomaterial composite, material synthesis ; Pigment and filler modification ; Active additives ; High performance catalyst ; Mineral fertilizer activation ; Powder surface modification ; Synthesis and Preparation of Bioceramic Raw Materials ; Mineral and waste treatment ;

Dispersion strengthened alloy structural materials ; Crystal form transformation, synthesis of new phases, metal refining, separation of rare metals, promotion of iron ore reduction reaction ; Generation of organometallic compounds and polymers ; Generation of friction aggregates ; Cement clinker activation ; Develop new building materials ; Achieve controllable microstructure of materials ; "Cutting" the properties of materials to realize their functionalization ; Controlling the sinterability of ceramic materials ; Development of electrical and magnetic materials.

Technical parameters

Abbreviation number	Specifications and models	Number of barrels	Full volume of cylinder L	revolution speed rpm	revolution power KW	rotation speed rpm	Rotation power KW	use
Continuous machine-1	LXYM-2T-1	2	$0.25 \times 2 = 0.5$	300~500	1.1	800-3000	0.75	Continuous grinding characterization and feeding test
Continuous machine-2	LXYM-4T-2	4	$0.25 \times 4 = 1$	300~500	1.5	800-3000	1.1	Continuous grinding and feeding parameter optimization
Continuous machine-3	LXYM-3T-3	3	$0.5 \times 3 = 1.5$	300~500	2.2	800-3000	1.5	Continuous grinding and feeding parameter optimization
Continuous machine-4	LXYM-4T-4	4	$0.5 \times 4 = 2$	300~500	2.2	800-3000	1.5	Continuous grinding and feeding parameter optimization
Continuous machine-5	LXYM-6T-5	6	$0.5 \times 6 = 3$	300~500	3	800-3000	2.2	Continuous grinding and feeding pilot test
Continuous machine-6	LXYM-4T-6	4	$2 \times 4 = 8$	300~500	4	800-3000	4	Continuous grinding and feeding pilot test
Continuous machine-7	LXYM-6T-7	6	$3.0 \times 6 = 18$	300~500	18.5	800-3000	gear transmission	Continuous grinding and feeding production
Continuous machine-8	LXYM-4T-8	4	$50 \times 4 = 200$	300~500	75	800-3000	gear transmission	Continuous grinding and feeding for mass production

Product Features

1. In order to reduce material pollution, it is suitable for users' requirements for material impurity content.
2. The cylinder has high positioning accuracy and stable operation.;
3. The resultant force of planetary grinding is more than 160 times the gravity of the grinding ball. The resultant grinding force is strong and conducive to static pressure crushing. Moreover, the resultant grinding force and frequency of action can be adjusted and optimized according to different materials.;
4. The rotation speed is high and controllable, the grinding force is large and controllable, the frequency of action is high and controllable, and the combined effect of multiple crushing methods can fully improve energy utilization and grinding efficiency after optimization, and can grind high-quality powder that meets fineness and precision requirements.
5. This model has a noise reduction structure. According to environmental needs, 75dB and 85dB noise prevention structures can be selected, which plays a positive role in environmental protection.

Accessories & Customization

Accessories

Grinding jars, heating elements, sample holders, control modules and other matching accessories can be selected according to the product configuration.

Customization

For voltage, capacity, chamber size, process temperature or application requirements, please contact TENCAN for a suitable configuration.