福建龙亿粉体装备制造有限公司

FUJIAN LONGYI POWDER EQUIPMENT MANUFACTURING CO.,LTD.

No.5, Lianfa Rd, Dongxiao Economic Development District, Longyan Fujian, China postcode: 364000

Web:www.lymill.com

Domestic Sale Department:

Tel:0597-2581699 蓝先生:+86-15960318866

Email: sales@lymill.com

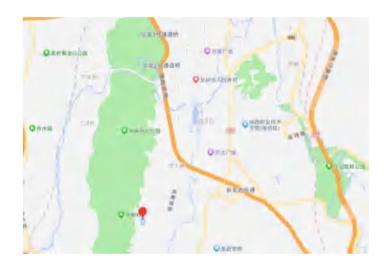
International Business Department

Tel:+86-0597-2581699

Mobile phone/we chat/w hats app:

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Email:info@lymill.com;tracyliao@lymill.com





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National High-tech

Enterprise



Patents



Certification



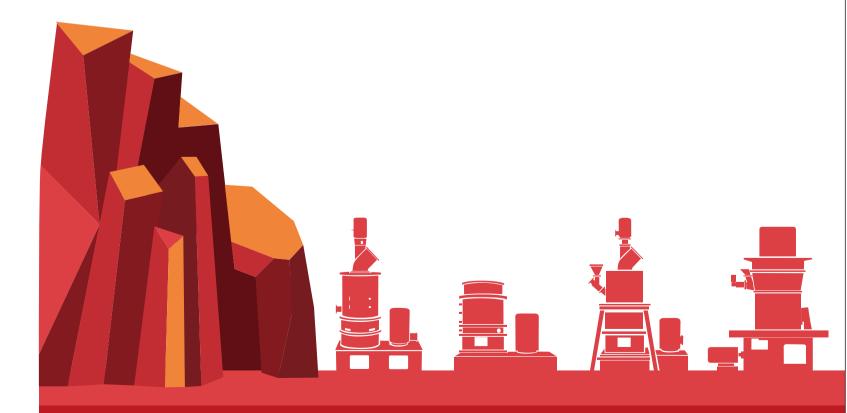
Famous Brand







CUSTOMIZED POWDER PROCESSING SOLUTIONS PROVIDER 定制化粉体加工解决方案提供商



福建龙亿粉体装备制造有限公司

FUJIAN LONGYI POWDER EQUIPMENT MANUFACTURING CO.,LTD.







COMPANY PROFILE

公司简介 📳

Fujian Longyi Powder Equipment Manufacturing Co., Ltd. is a China national high-tech enterprise specializing in R&D and manufacturing of ultra-fine powder production lines.

At Longyi company, we understand the growing importance of production efficiency, energy saving and eco-friendly in today's world. As the current market competition is becoming increasingly fierce, businesses need reliable partners who can provide innovative and high-performance powder manufacturing solutions. We have positioned ourselves as industry experts in this field, focusing on meeting our clients' requirements on equipment quality, reliability, stability and consistent high productivity.

Longyi is devoting to become the world's leading provider for customized powder-making solutions, expecting to lead the breakthrough innovation of powder equipment manufacturing technology through the ultimate pursuit of product quality and R&D investment, helping China's powder processing industry to catch up with the international advanced level and achieve a new high-quality and high value-added manufacturing force in China.



20+ Years Manufacturing Experience

With over two decades of expertise in the ultra -fine powder industry.



Customized Products Parameters

We provide customized equipment and solutions with precise parameters to meet your specific requirements.



One-stop Pilot Site

We encourage all potential customers to pilot service for testing and commissioning.



24hours Online Service

Our team of over 80 engineers offers 24-hour online visit our plant and test our machines. Get one-stop support for design, installation, maintenance, and training, ensuring continuous after-sales service.







Senior R&D Engineers

10+

R&D Engineers

50+

National Patents

100+

Cooperated Clients

500+







Core Technology 📀

• Fujian Longyi Powder Equipment R&D Genter



Advanced and Accurate Testing Equipment

















• Authoritative Technical Support •

Cooperated with experts from Beijing Iron and Steel Research Institute, Chongqing University, Xi'an Jiaotong University, North Central University and other institutions.

















Product Introduction

Longyi New-type gringding roller mill series is a new grinder depending on its technology R&D capability and referring to similar products' advantages home and abroad. It has comprehensive mechanical crushing properties such as rolling, grinding and impacting. According to clients' different requirements to finished powder, our company can provide diverse and customized solutions to help clients produce customized powder products. This series has such features as large output, lower energy-consumption, long operating Life and easy to maintenance. It is a perfect option for customers who prefer high return from investment.

• Process Flow Diagram for Grinding Roller Mill •



• Application •

Suitable for processing of calcium carbonate, kaolin, calcite, metal ore and various fields such as cement, electric power, metallurgy, chemical industry and it also can be applied to anode materials, etc.



• Technical Advantages •

Stable product quality.

Meet client's requirements for different fineness powder, finished powder fineness is adjustable stable quality.

High classifying accuracy.

Built-in high efficiency classifier, higher classification accuracy, better classification effect.

High output with low energy consumption.

Use new upgraded main machine transmission mechanism, it has higher output, Lower energy-consumption, easy to maintain.

Abrasion resistance.

All main wear parts use quality abrasion-resisting alloy steel.

Eco-friendly and efficiently.

It adopts a fully sealed negative pressure air system, which is eco-friendly and efficiently, with high recovery rate of fine powder, realizing dust-free production and no pollution.

Intelligent control system.

Remote centralized control, one-button to operation, intelligent control of feeding material to ensure mill production stable and high-output.

Low investment costs.

The whole grinding system with a compact structure could save space, low foundation construction cost, it's a cost-effective investment.

• Models & Parameters of LYHM Grinding Roller Mill Series •

Item	Model Technical Parameters	LYHM-1560	LYHM-1860	LYHM-2200
Power(KW)	Main Motor	75	132-160	200
	Classifying system	18.5-30	30-37	45-75
	Feeding system	1.5	1.5-3	3
	Air Blower	45	55-75	110-132
	Discharge Valve	(φ260×)1.1	(φ260×)1.1	(φ350×)1.5
Air Blower	Air Volume(m3/h)	8000-12000	10000-16000	12000 - 18000
	Air Pressure(pa)	>10000	>10000	>12000
Rotation Speed(r/min)	Main Motor Shaft	200-300	150-220	130-200
	Classifier Wheel	500-3000	500-3000	500-3000
	Feeding Conveyor	20-60	20-60	20-60
Powder Fineness (um)		3-35	3-60	3-60
Output Capacity(kg/h)		500-3500	800-10000	1000-13000
Mill Weight(kg)		8000	15000	25000
Size(LxWxH,mm)		10785×3600×7900	11275×4656×8243	14601×5200×8998







Product Introduction •

After absorbing advantages from foreign superfine vertical mills and considering analysis of domestic clients' needs, Longyi makes targeted improvements on existing vertical mill's technology to develop a new-type vertical mill fit for superfine grinding of nonmetallic minerals. Self developed upgraded multi-head vertical classifier structure, Longyi classifier perfectly slove particle cutting point high and low sieving rate, compare with the traditional classifier, it fully ensure the powder quality that the finished powder fineness could reach 30%-60% (particle size <2um, Detection machine: Malvern Micro laser particle size analyzer). After years of research and development Longyi new abrasion-resisting alloy steel is successfully applied in grinding rollers, grinding bearing and other parts, and it extremely endows the wear-resistant parts long service life, promoting the wear parts replacement cycle.

• Process Flow Diagram for Vertical Mill •



Application

It can be used for processing of nonmetallic minerals i.e. calcium carbonate, calcite, clay, kaolin, dolomite, talc, barite, wollastonite, brucite, calcium oxide, gypsum, coke coal, slag, phosphate etc.

Technical Parameters

ltem	Model	LYLM1200	LYLM1800
	Main Motor	250	450
Power(kw)	Air Blower	185	315
Power(kw)	Classifier Motor	18.5X5	22X6
	Total Power	527.5	897
Output C	apacity(kg/h)	1500-15000	3000-30000

• Technical Advantages •



Patented Vertical Classifier.

The first innovative multi-head vertical classifier with vertical classifying heads (patent number: ZL 2018 2 1 9 9 6 5 5 0 . 3) can produce a wide range of finished product particle sizes, high grading efficiency, finer grading, and can avoid coarsening. The cutting point of the powder is smaller. One-time grading can reach the level of Taiwan vertical mills with a number of 2800 or above after two grading. The cutting point (D100) is 3-10um smaller than that of horizontal mills.

The grading motor and grading wheel adopt direct connection transmission, which is highly efficient, improves the efficiency and precision of grading, and avoids the great influence on the precision and efficiency of grading caused by slipping and stalling in belt transmission.



Cantilever Structure Feeding Auger.

The feeding auger adopts a cantilever structure, with no bearing at the tail, and no oiling is required inside the grinder.

Single Cylinder External.

- 1. The single cylinder structure can avoid the imbalance problem caused by the double cylinders;
- 2. The external oil cylinder makes the air passage inside the mill more uniform and smooth, while reducing leakage points and effectively ensuring the air tightness of the mill chamber;
- 3. The maintenance oil cylinder is set at the grinding roller, which can be turned out by hydraulic drive, making maintenance safe and convenient and reducing labor input.





Product Introduction

This model integrates functions such as drying, depolymerization, powder coating, and surface modification.

It features an intelligent operating system, including an automatic batching control system, enabling precise measurement and batching to ensure stable product quality. It is also equipped with an internal classification system and a material return system, significantly improving the quality and added value of powder products. This machine is widely applicable in the field of deep powder processing.

• Process Flow Diagram •



Application •

Non-metallic minerals: Calcium carbonate, kaolin, talc powder, barium sulfate, magnesium stone, light calcium.

New energy materials: Iron phosphate, lithium titanate, ternary materials, lithium iron phosphate, cobalt hydroxide.

Food products: Corn starch, coffee powder, wheat flakes, additives, powdered sugar.

• Technical Advantages •



Multifunctional integration: drying, depolymerization, coating, and modification.



After powder modification, the activation rate can reach up to 99.98%.



Equipped with an automatic batching control system for precise measurement and batching, along with an internal classification system.



Significantly increases the added value of powder, reducing the oil absorption value by 10-15 ml/100g.



Material return and slag discharge system, ensuring stable product quality.



Equipped with a self-adjusting particle size control system for precise matching of diverse product requirements.

• Model and Technical Parameter •

Model Tech parameter	LYHGM-500	LYHGM-1000	
Feed condition	Powder、filter cake 、loose particles		
Product moisture content	≤0.05%		
Coating rate	≥98%		
Processing capacity(t/h)	0.5-2	1.5-4	
Installed power(Kw)	92	182	
Induced Airflow(m³/h)	>6000 >9000		

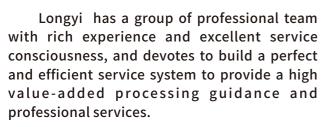




One-stop Service 🕞



Service & Support (B)



• Pre-sale •

- 1. Support clients to select equipment according to their requirements.
- 2. Provide design for the layout of the production plant according to the clients' site.
- 3. Provide installation plan and flow diagram.4. Guidance on pre-install work.



• During-sale •

- 1.Strict control on the producing products to ensure best quality.
- 2. Eliminate hidden defects with strict factory inspection and traceability system.
- 3. Provide logistics information.
- 4. Guide the construction of factory foundations.
- 5. Guide the installation and commission.
- 6. Provide professional technical training.

After-sale

- 1. Provide guidance on various powder production processes according to clients' needs.
- 2. Periodically follow up the use of equipment.
- 3. Provide guidance to clients for equipment maintenance problem.
- 4. Solve the related problems of clients in the shortest time.
- 5. Replace accessories timely and efficiently.
- 6. Professional and fast equipment maintenance.

Global Strategies 🚱



Who chose us?

We have cooperated with over 40 countries clients, more than 300 world well-known companies chosen us, and we deeply cooperation with these leading enterprises in anode, ground calcium carbonate and environmental protection.

















