

BALL MILL

河南红星矿山机器有限公司

HENAN HONGXING MINING MACHINERY CO., LTD

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BALL MILL 球磨机



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中国大型窑磨生产基地
中国重型矿山机械生产出口基地
China Large Kiln & Mill Manufacture Base
China Heavy Mining Machinery Manufacture & Export Base

球磨机 BALL MILL



红星集团
HONGXING GROUP

河南红星矿山机器有限公司
HENAN HONGXING MINING MACHINERY CO., LTD



企业如大海航行

团队是船

质量是帆

市场是大海

领导是舵手

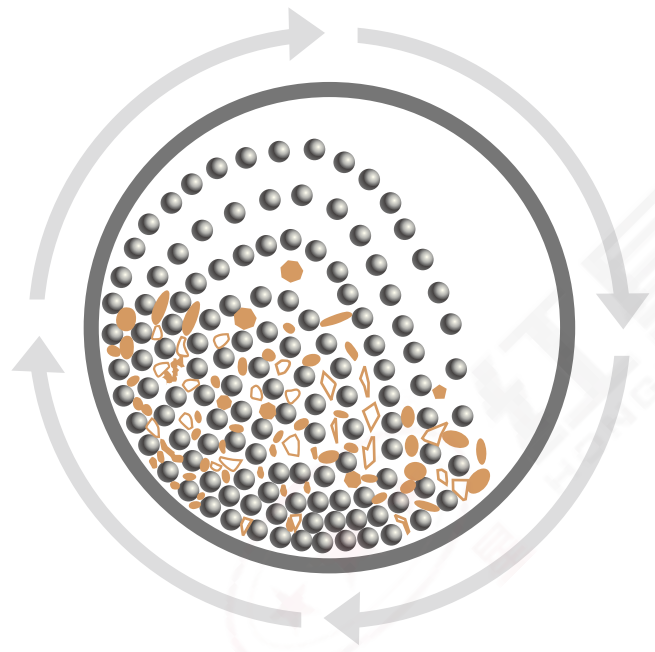
Company development is like a voyage in the sea

Team as a boat

Quality as a sail

Market as the sea

Leader as a helmsman



好事多磨 红星磨

球磨、棒磨、自磨、管磨……

Good business starting from mills.Hongxing Mills

Ball Mill, Rod Mill, Autogenous Mill, Tube Mill……

磨机阐述 A brief introduction of mills

一、磨机的分类：

物料经过破碎机械破碎（粗、中、细破碎）的粒度在8~20mm之间，为了达到生产工艺所需要的细度要求，破碎后的物料还必须经过粉磨机械磨细。粉磨是现代工业生产中的重要过程。

在选矿、建材、水泥、煤炭、化工、电力和冶金等工业部门中，都需要磨碎作业。球磨机的主要部分是一个缓慢旋转的筒体，筒体内装有磨碎介质，由于球磨机结构简单坚固、操作可靠、维修管理简单、能长期连续运转、对物料适应性强、破碎比大（可达300以上）和生产能力大，所以能满足现代化大规模工业生产的需要。

1.按筒体的长径比分类：

- （1）短磨机 长径比在2以下时为短磨机，或称球磨机。一般为单仓，用于粗磨或一级磨，也可将2~3台球磨机串联使用。
- （2）中长磨机 长径比在3左右时为中长磨机。
- （3）长磨机 长径比在4以上时为长磨机，或称管磨机。中长磨和长磨，其内部一般分成2~4个仓。在水泥厂中用得较多。

2.按磨内装入的研磨介质分类：

- （1）球磨机 磨内装入的研磨介质为钢球或钢段。这种磨机使用最普遍。
- （2）棒磨机 磨内装入的研磨介质为钢棒。棒磨机筒体长径之比一般为1.5~2。
- （3）砾石磨 磨内装入的研磨介质为砾石、卵石、瓷球等。用花岗岩、瓷料做衬板。用于陶瓷等工业对金属杂质或色泽有要求的原材料工艺生产中。

二、磨机的工作原理：

球磨机主要由圆柱形筒体、端盖、轴承和传动大齿圈等部件组成，筒体内装入直径为25~150mm的钢球或钢棒，其装入量为整个筒体有效容积的25~50%。筒体两端有端盖，端盖利用螺栓与筒体端部法兰相连接；端盖的中部有孔，称为中空轴径，中空轴颈支撑在轴承上，筒体可以转动。筒体上还固定有大齿圈。在驱动系统中，电动机通过联轴器、减速器和小齿轮带动大齿圈和筒体，缓慢转动。当筒体转动时，磨介随筒壁上升至一定高度，然后呈抛物线落下或泻落而下。

由于端盖上有中空轴颈，物料从进料端的中孔轴颈给入筒体，并逐渐向出料端扩散转移，当物料自进向出的移动过程中，旋转筒体将钢球带至一定高度而落下将物料击碎，而一部分钢球在筒体成泻落状态对物料有研磨作用，整个移动过程也是物料的粉碎过程。

球磨机工作原理中，由于筒体的旋转和磨介的运动，物料逐渐向出料方扩散，最后从出料端的中空轴径溢流排出，该类型的球磨机称为溢流型磨机。另一种球磨机在出料端设有格子板，格子板由若干块扇形篦孔板组成，扇形板上的篦孔宽度为7~20mm，一般以7~8mm为宜，物料可以通过篦孔进入格子板与端盖之间的空间内，然后由提料板将物料向上提升，物料沿着提料板滑落经过锥形块面到达中空轴径，再由安装在中空轴径的出料装置排出机外。这一类型的球磨机称为格子型磨机。

一、The classification of mills:

After the coarse, medium and tertiary crushing of the crushers, the granularity of material should be between 8 mm and 20mm. In order to reach the required granularity, the crushed materials need to be pulverized by the pulverizer. Grinding is an important process in the production of the modern industry.

Grinding is needed in some industrial department such as ore dressing, building materials, cement, coal, chemical industry, electric power, metallurgy and so on. The major component of ball mill is a cylindrical shell which rotates slowly, in whom there are some grinding medium. Ball mill has the following advantages: simple structure, reliable operation, simple management and maintenance, long-time operation, strong adjustment to materials, big crushing ratio (it can reach 300) and large production capacity. As a result, it can meet the demands of modern large-scale industrial production.

1、According to L/D (length to diameter):

(1) Short-type mill

The short-type mill, whose L/D is below 2, is also called ball mill. Most of them are with single chamber, and can be used in coarse grinding or primary grinding. We can also use 2 or 3 series ball mills.

(2) Medium-type mill

The mill, whose L/D is about 3, can be called medium mill.

(3) Long-type mill

The mill, whose L/D is above 4, can be called long-type mill or tube mill. There are 2 or 4 chambers in most Medium-type and long-type mills. They are widely used in cement plants.

2、According to the grinding medium in the mill:

(1) Ball mill

The grinding medium is steel balls or cylpebs. This kind of mill is the most widely used kind of mills.

(2) Rod mill

The grinding medium in the mill is rods. The L/D of the rod mill is usually from 1.5 to 2.

(3) Gravel mill

The grinding mediums in the mill are gravel, cobbles, and ceramic balls and so on. The liners of the gravel mill are made of granite and porcelain. It can be used in the process manufacturing of raw materials, in which some industries such as ceramic have certain requirements about the impurities, colour and luster of the metal.

二、The working principle of mills:

Ball mill is mainly made up of cylindrical shell, end cover, bearing, and big ring gear and so on. We can load some steel balls or steel rods, whose diameter is from 25mm to 150mm, the intake quality is about the 25~50% of the effective volume of the shell. There are end covers on both ends of the shell, to be connected by bolt and flange at shell end. There are holes at the center of end covers, called hollow shaft necks propped up to bearings, therefore, shell can turn. Main gear ring is fixed on shell. In driving unit, main gear ring and shell are driven to turn by motor, shaft coupling, reducer and pinion. When shell turning, grinding medium rise to a certain height along the shell wall and drop in the form of parabola or in torrents.

Material is fed into shell from hollow shaft neck of input end, and transferred gradually towards output end. During the movement of material, steel balls will be lift to a certain height by the rotating shell to crush the material by fall. Part of steel balls will grind the material by dropping in torrents in shell. Whole movement procedure of material is the procedure of crushing.

In the working principle of ball mill, as the rotary of the shell and the movement of grinding media, the materials gradually spread to the discharging direction, finally overflow from the hollow shaft of discharging end, this kind of ball mill is called as overflow type ball mill. Another kind of ball mill has the grid plate in the discharging end, the grid plate consist of several pieces of fan-shaped grate plates, whose hole opening is 7~20mm, generally 7~8mm suitable. Materials enter into the space between the grid plate and end cover through the holes, and then to be lift by lifting plate, fall along lifting plate to hollow shaft neck through conical block, finally, discharged by discharge unit at hollow shaft neck. This kind of ball mill is called as grid type ball mill.



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形象篇

Image

HXJB

Catalog

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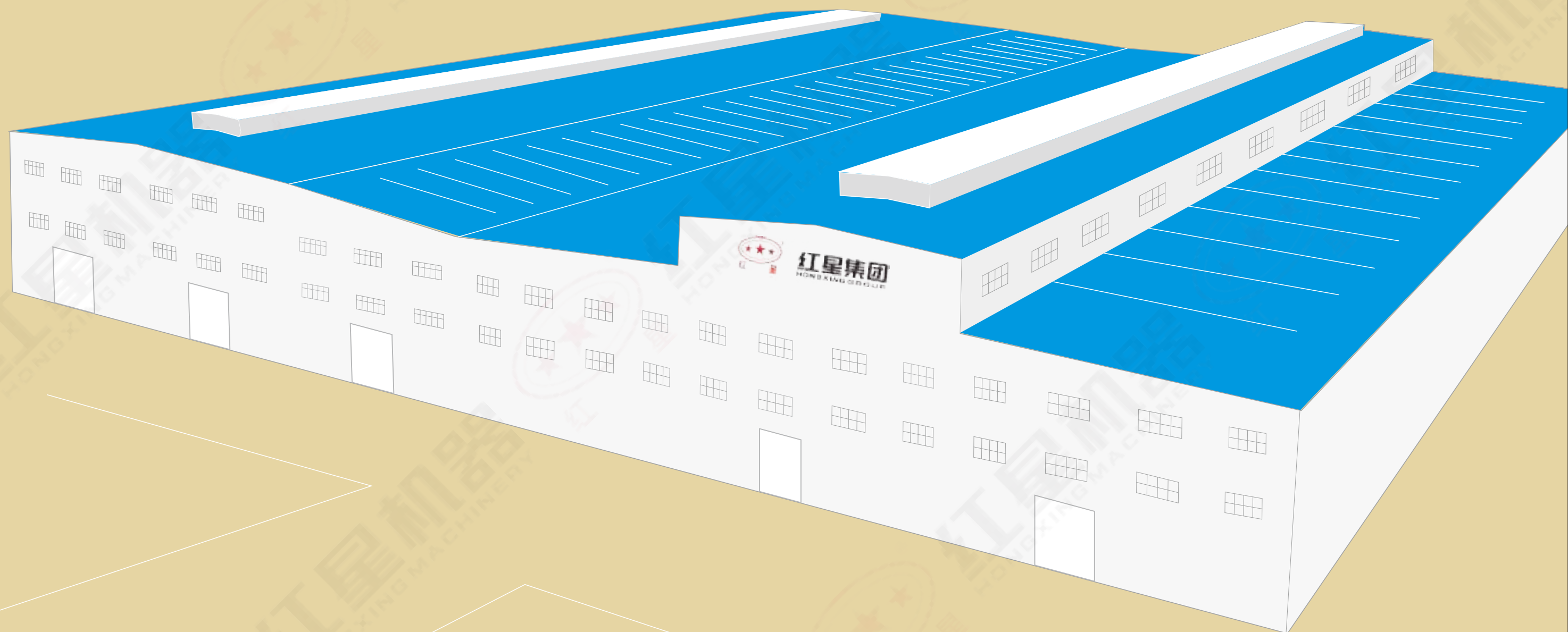


走进红星

About Hongxing

创中国工业品牌
造国际一流矿机

Create a famous Chinese industrial brand and
build the world-class mining machines



公司简介

COMPANY PROFILE

红星集团，是一家集科研、生产、销售、售后为一体的综合性大型股份制企业。现有研发、管理、产销各类员工2300余人，四个现代化生产基地占地350000平方米，是国家高新技术企业和国内高端矿机生产与出口基地。集团专注于矿山机器制造，产品涵盖破碎、制砂、筛分、磨粉四大系列，同时为客户提供工程设计和EPC总包服务，坚持“一企一策”量身打造矿石加工解决方案。

40余载砥砺前行，集团始终不忘创中国工业品牌，造国际一流矿机的初心，始终秉持为客户创造更大价值的使命，不断提高研发投入开发新品，优化升级项目解决方案，为提高客户生产运营收益不懈努力。产品先后通过ISO9001、CE（欧盟）、GOST（俄罗斯）等国际质量体系认证。永争一流的红星集团为全球数万家矿山企业提供服务并获得普遍赞誉。

Hongxing Group is a comprehensive large-scale joint-stock enterprise integrating scientific research, production, sales and after-sales. The existing R & D, management, production and marketing staff of more than 2,300 people, four modern production bases covering an area of 350,000 square meters, is a national high-tech enterprise and domestic high-end mining machine production and export base. The Group focuses on mining machine manufacturing, covering four series of crushing, sand making, screening and grinding, while providing customers with engineering design and EPC general contracting services, adhering to the "one enterprise, one policy" tailor-made ore processing solutions.

For more than 40 years, the Group has never forgotten the original intention of creating a Chinese industrial brand and creating a world-class mining machine, always adhering to the mission of creating greater value for customers, continuously improving scientific research investment in the development of new products, optimizing and upgrading project solutions, and making unremitting efforts to improve the production and operation income of customers. Products have passed ISO9001, CE (European Union), GOST (Russia) and other international quality system certification. Forever first-class Hongxing Machinery provides services to tens of thousands of mining enterprises around the world and has been universally praised.



QUALIFICATION HONORS

资质荣誉

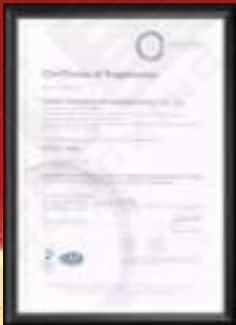
卓越品质 资质为证

Excellent quality identified, by all the Qualifications



荣誉是里程碑中智慧与汗水的结晶
荣誉是实力的体现
不满足，追求永无止境

Honor is the monumental fruit of wisdom and perspiration.
Honor displays power.
Not complacency, endless pursuit!



Company Scene

公司场景

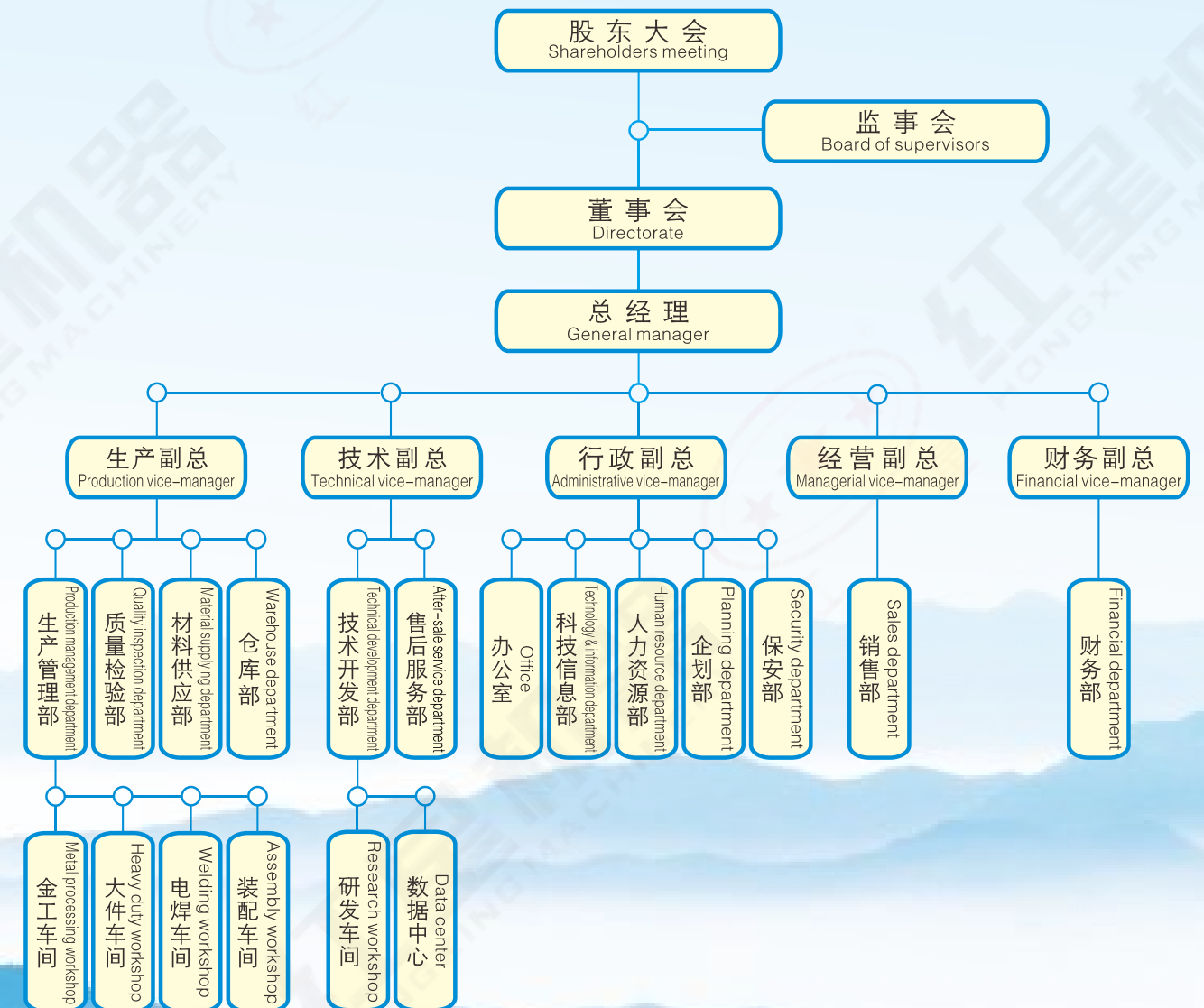


规范管理，高效协作
高效率、协作化的组织结构体系，
以规范管理为基础，
以市场需求为导向，
寻求资源的最佳组合，
以使我们的组织不断健康成长，
充满活力、生机。

Standardized management, high efficiency
and collaboration
Company organization with high efficiency
and collaboration
On the basis of standardized management
In the orientation of market demand
For the optimal resources distribution
And the healthy, dynamic development of

Structure Organization

组织架构



Enterprise Culture

企业文化

红星使命

我们所做的一切旨为用户创造更大的价值

红星愿景

成为全球客户所信赖的产品和解决方案提供商

红星价值观

客户第一 团队合作 直面问题 敢于担当 努力奋斗 不断超越

红星精神

诚信 高效 精细 务实

经营理念

创中国工业品牌，造国际一流矿机

HXJQ Mission

Everything we do aims to create greater value for users

HXJQ Vision

Become a trusted product and solution provider for global customers

HXJQ values

Customer first, teamwork, confront problems, Dare to take responsibility, work hard, and constantly surpass

HXJQ spirit

Honesty, high efficiency, precision, and pragmatism

Business philosophy

Create a famous Chinese industrial brand and build the world-class mining machines

Culture



Design & Research

研发力量

凝心聚力 做科研

Do scientific research by enhancing cohesion



红星视科技研发为企业生命力，深谙是人才团队的智慧成就了红星的品质、品质，为使红星产品更趋完美，不吝重金聘请一批高级技术顾问和高职称的研究制造专业人士、高级工程师加盟，用他们的智慧培养员工，加上生产工人孜孜以求的工作态度，注重每一个生产细节，从而形成了红星在强势品牌战略中最坚不可摧的堡垒。

红星以建材院、矿山机械研究院、有色院为技术依托建立了国内最先进的矿山机器技术研发中心，和众多知名院校建立了良好的产学研关系，不断自主创新，保证了新产品研发的质量和速度。红星在研发上填补了国内空白。多项产品获奖，为行业发展作出了令人瞩目的贡献。

Hongxing regards scientific research as the life of enterprise and knows that wisdom of human resources is key to the Hongxing's brand and quality. In order to perfect the quality, Hongxing employs senior technical consultants, professional researchers and senior engineers to train the employees. The workers' serious working attitude and attention to product details become the key factors of the Hongxing's brand strategy.

Hongxing, relying on Building Material Research Institute, Luoyang Mining Machinery Engineering Design Institute, Luoyang Non-ferrous Metal Processing Design and Research Institute as technical support, establishing mining machinery technology research & development center which is the most advanced in China, building favorable producing-learning relationship with many famous universities, guarantees the quality and speed of new product research & development with its continuous self-innovation. With technology research & development filling the domestic gap and numerous award-winning products, Hongxing has made the remarkable contributions to the development of the industry.

Capacity

FACILITIES & MANUFACTURING CAPACITY

装备能力

工欲善其事 必先利其器

Sharp tools make good work

红星引进了国内外先进水平的加工装备拥有高精度的数控机床、大型加工设备和特种检测设备，为产品质量和企业发展提供了有力保障。

Hongxing has bought advanced manufacturing equipments from home & abroad. Numerical control machine tools with high-precision, large processing equipments & special test equipments provide strong safeguard for product quality and company development.



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- ① 400吨级重型铆焊装配车间一角
One corner of 400t Heavy welding & riveting assembly workshop
- ② 重型数控双柱立式车群
Heavy numerical control double-column vertical lathe group
- ③ 移动门式埋弧自动焊机
Moving-gate type submerged arc automatic welder
- ④ 悬臂固定旋转式埋弧自动焊机
Cantilever fixed-rotary-type submerged arc automatic welder
- ⑤ 悬臂移动式埋弧自动焊机
Cantilever moving type submerged arc automatic welder



6

⑥ 重型加工装备一角 (CDW11XNC-120×3200卷板机)
One corner of Heavy Machine Workshop (CDW11XNC-120×3200 rolling machine)

⑦ 6.0×6.0×16.5m自控电加热退火炉
6.0×6.0×16.5m Automatic electric-heating annealing furnace

⑧ 16m刨边机
16m Edge planer

⑨ 大型镗铣床
Large boring-milling machine

⑩ 重型筒体加工车床
Heavy lathe for Shell machining

⑪ 大型滚齿机群
Large gear-hobbing machine group



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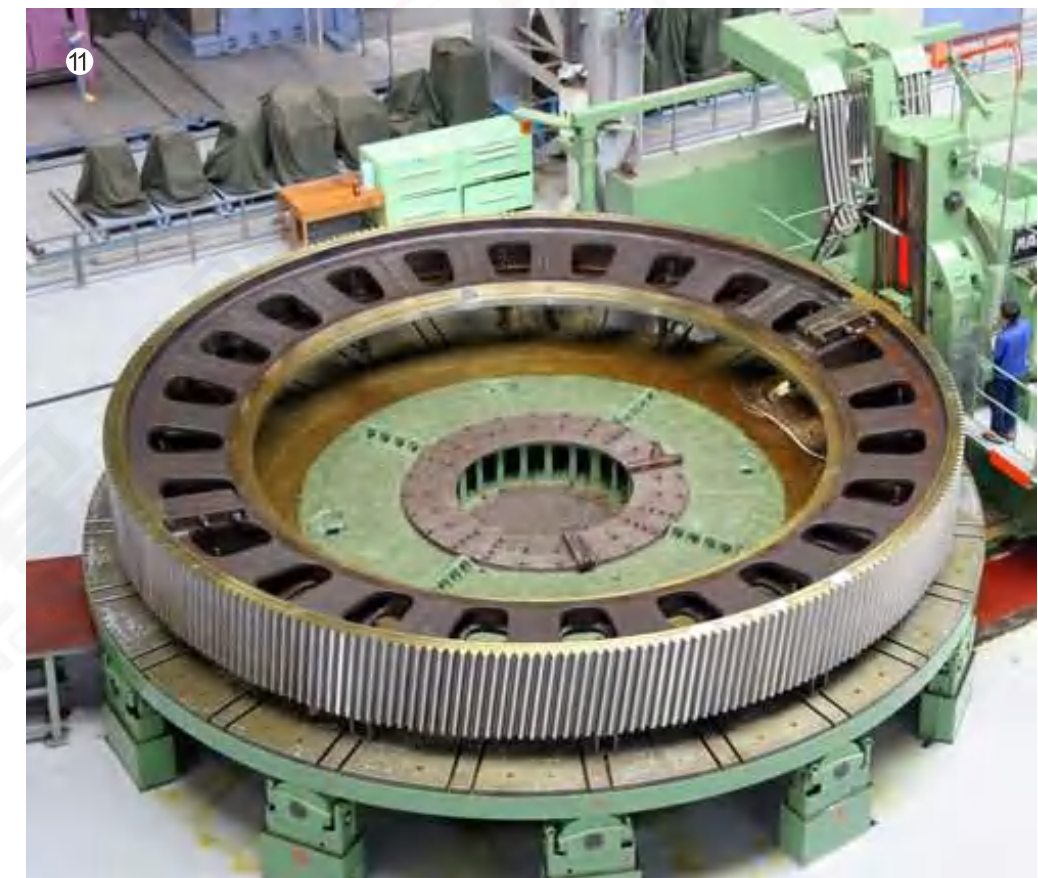
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11

红星产品篇 1 Products

成功从选择红星机器开始
Success starts from choosing Hongxing machine

Mining Mill 矿用磨机

球磨机

BALL MILL

溢流型球磨机

Overflow Ball Mill

格子型球磨机

Gird Ball Mill

棒磨机

Rod Mill

自磨机

Autogenous Mill

加棒机

DELIVER MACHINE

Ball Mill 球磨机



磨机是粉磨流程中的重要设备，主要作用是对物料进行粉磨，以获得工艺要求的粒度产品。广泛应用于电力、黑色（有色）金属和非金属选矿、化工、建材等行业。

按装入磨矿介质的不同，可分为球磨机（Ball Mill）、棒磨机（Rod Mill）和不装介质的自磨机（AG Mill）。

按排料方式分为：湿式格子型、干式格子型和溢流型。

按传动形式分为：边缘传动和中心传动，前者使用较多。

按驱动形式分为：

- a.异步电机驱动：异步电机+减速机+小齿轮+大齿轮。
- b.同步电机驱动：同步电机+空气离合器+小齿轮+大齿轮。
- c.异步电机+减速机+膜片联轴器。

》磨机主轴承根据需要可采用滑动轴承、滚动轴承及滑履轴承等。

》磨机衬板可采用耐磨金属衬板、橡胶衬板、磁性衬板以及氧化铝衬板（即高铝衬砖）。

》根据需要可配慢速驱动装置、高低压润滑站、传动齿轮自动喷射润滑装置、顶起装置和PLC控制系统等。

Mill is the key equipment for grinding materials to get the product as per the requirement of process, used widely in electric, ferrous(non-ferrous) metal, nonmetal mining, chemical & building material industries.

Mill could be sorted as following:

As per the grinding media: ball mill, rod mill and AG Mill(without grinding media).

As per material discharging mode: wet grid mill, dry grid mill & overflow mill.

As per driving mode: side & central driving. The former is more popular now.

As per driving configuration:

a.Asynchronous motor driving:Asynchronous motor + Reducer + Pinion+Girthgear

b.Synchronous motor driving: Synchronous motor+Air cluth+ Pinion+Girthgear

C.Asynchronous motor+reducer + diaphragm coupling

》 Main bearing, adopting silde bearing, rolling bearing or sliding-shoe bearing as per requirement.

》 Liner, adopting wear-resistant metal liner, rubber liner, megnetic liner and alumina liner(high aluminum lining brick).

》 Following items as per options: Inching driving device, high & low pressure lubrication station, spraying lubrication device of gear, jacking device & PLC control system.

节能球磨机

Energy-Saving Ball Mill

用滚动轴承替代传统的滑动轴承。

使用滚动轴承的球磨机能改善启动条件，降低磨机启动转矩，磨机正常运转时的工作电流也比装配滑动轴承低，降低了磨机的功耗。

滚动轴承采用润滑脂润滑，维护方便，节省润滑油。另外消除了滑动轴承可能研瓦的弊病，保证了磨机长期安全运转，提高了磨机的作业率和生产能力。

Adopting rolling bearing to replace the traditional sliding bearing, thus, starting condition improved, starting torque reduced, working current reduced, power consumption reduced.

Rolling bearing uses grease lubrication, easy to maintain and saving lubrication.And, avoid the problem of bearing bush grinding, ensure the long-term & safe running of mill, promote the working rate & production capacity.

磁性衬板

Megnetic Liner

磁性衬板靠磁力在衬板的工作表面吸附一层由介质、介质碎块和铁磁性矿物组成的稳定保护层，避免物料与衬板的直接冲击和磨损，从而延长衬板的寿命。同时，磁性衬板吸附于磨机筒壁上，不用螺栓固定，拆装方便。磁性衬板比锰钢衬板薄、重量轻，可提高磨机产量。磁性衬板一般适用于二段球磨机。

Megnetic liner is coated on the surface with steady protective layer of media, media frament and ferromagnetic minerals, to avoid the direct impact & wearing and prolong the service life. Also, megnetcic liner attracted with mill shell, and no need to fix by bolts, easy to dismounting & installing. Comparing with manganese steel liner, megnetic liner is thinner, lighter and could promote the production of mill. Generally, megnetic liner is used in secondary stage ball mill.

自磨机

Autogenous Mill

自磨机，又称无介质磨机。其特点是被处理的矿石（物料）本身作为研磨介质。矿石连续从卧式筒体的一端进入，以一定的转速借助于筒体衬板将矿石带起，使矿石自身相互冲击和磨削；磨细的矿粒靠风（干式）或排料端的衬板（湿式）实现强迫排料。

Autogenous mill, aslo known as no-media mill, is characterised for the grinded mineral (material) itself working as the grinding media. Mineral is fed into the horizontal shell from one end, with a certain rotary speed motivated & lifted by liner, mineral chunks impact & grind with each other, and the fine product is discharged by air force (dry type mill) or liner of dishcharging end (wet type mill).



1、溢流型球磨机技术参数表

Technical Parameter Table of Overflow Ball Mill

型号 Model	筒体 Cylinder		有效容积 Effective Volume (m³)	装球量 Max.Ball Loading (t)	转速 Speed (r/min)	产量 Capacity (t/h)	出料粒度 Discharging size(mm)	主电动机 Main Motor (KW)	总重量 Weight (t)
	直径 Diameter (mm)	长度 Length (mm)							
MQY-1530	1500	3000	4.5	8	30	6.3~2.8	0.3~0.074	90	18
MQY-1545	1500	4500	6.7	12	30	9~3.8	0.3~0.074	132	21
MQY-1830	1830	3000	6.7	12	26.6	12.5~4.5	0.3~0.074	130	33
MQY-1845	1830	4500	10.5	19	26.8	15.5~6	0.3~0.074	180	35.5
MQY-2130	2100	3000	9.2	16	23.8	18~5.8	0.3~0.074	210	43
MQY-2136	2100	3600	11	20	23.8	22~6.8	0.3~0.074	210	47
MQY-2145	2100	4500	13.8	25	23.8	25~8	0.3~0.074	280	54
MQY-2230	2200	3000	10	18.5	21.3	23~6.9	0.3~0.074	210	48
MQY-2245	2200	4500	15.2	28	21.3	26.8~8.5	0.3~0.074	280	52
MQY-2430	2400	3000	12	22	21.3	26~7	0.3~0.074	245	51
MQY-2436	2400	3600	14	26	21.3	33.5~8.8	0.3~0.074	280	58
MQY-2445	2400	4500	17.8	30	21.6	42~11	0.3~0.074	320	69
MQY-2460	2400	6000	24	44	21.7	56~14.5	0.3~0.074	480	78
MQY-2736	2700	3600	18	33	20.7	54~11.7	0.3~0.074	400	86
MQY-2740	2700	4000	20.6	38	20.7	60~13	0.3~0.074	400	92
MQY-2745	2700	4500	23.2	43	20.7	67.5~14.5	0.3~0.074	480	98
MQY-2750	2700	5000	25.8	48	20.6	75~16	0.3~0.074	500	106
MQY-2760	2700	6000	31	57	20.6	90~19.5	0.3~0.074	630	116
MQY-3040	3000	4000	25.7	47	19	78~16.5	0.3~0.074	500	108
MQY-3064	3000	6400	40.2	74	19	125~26	0.3~0.074	800	138
MQY-3245	3200	4500	32	59	18.2	95~21.6	0.3~0.074	630	126
MQY-3254	3200	5400	38	73	18.2	114~25.9	0.3~0.074	800	138
MQY-3270	3200	7000	50.6	93	18.2	148~30.2	0.3~0.074	1250	150
MQY-3645	3600	4500	40.8	75	18	136~24.3	0.3~0.074	1000	144
MQY-3650	3600	5000	46	86	18	151~28.1	0.3~0.074	1250	152
MQY-3660	3600	6000	54	102	18	181~32.4	0.3~0.074	1250	163
MQY-3685	3600	8500	79	131	18	256~45.8	0.3~0.074	1800	252
MQY-4060	4000	6000	70	126	16.9	226~40.5	0.3~0.074	1500	203
MQY-4067	4000	6700	78	136	16.9	252~45	0.3~0.074	1600	206
MQY-4361	4270	6100	80	144	15.7	258~46	0.3~0.074	1850	215
MQY-4564	4500	6400	95	172	15.6	306~54	0.3~0.074	2000	280
MQY-5064	5030	6400	120	216	14.4	386~68	0.3~0.074	2600	320
MQY-5083	5030	8300	152	266	14.4	500~88	0.3~0.074	3300	403
MQY-5585	5500	8500	187	338	13.8	615~108	0.3~0.074	4500	525

技术参数变动恕不另行通知
Technical parameters are subject to change without notice.

2、格子型球磨机技术参数表

Technical Parameter Table of Grid Ball Mill

型号 Model	筒体 Cylinder		有效容积 Effective Volume (m³)	装球量 Max.Ball Loading (t)	转速 Speed (r/min)	产量 Capacity (t/h)	出料粒度 Discharging size(mm)	主电动机 Main Motor (KW)	总重量 Weight (t)
	直径 Diameter (mm)	长度 Length (mm)							
MQS-1530	1500	3000	4.5	9	30	7~3.1	0.3~0.074	110	19.5
MQS-1545	1500	4500	6.7	14	29.6	10~4.2	0.3~0.074	155	22
MQS-1830	1830	3000	6.7	14	26.6	14~4.95	0.3~0.074	155	34.5
MQS-1845	1830	4500	10.5	20	26.8	17~6.6	0.3~0.074	210	38
MQS-2130	2100	3000	8.8	18	23.8	20~6.4	0.3~0.074	210	45
MQS-2136	2100	3600	11	22.5	23.8	24.5~7.5	0.3~0.074	245	48.5
MQS-2145	2100	4500	13.8	28	23.8	27.5~8.8	0.3~0.074	280	56
MQS-2230	2200	3000	10	20	21.3	25.5~7.6	0.3~0.074	210	50
MQS-2245	2200	4500	15.2	30.5	21.4	29.5~9.4	0.3~0.074	320	54.5
MQS-2430	2400	3000	12	25	21.3	28.6~7.7	0.3~0.074	280	53.5
MQS-2436	2400	3600	14	29	21.4	37~9.7	0.3~0.074	320	61
MQS-2445	2400	4500	17.8	37	21.4	46.5~12	0.3~0.074	380	72
MQS-2470	2400	7000	28	45	21.5	72~18.6	0.3~0.074	480	80
MQS-2736	2700	3600	18	38	20.7	60~12.8	0.3~0.074	400	89
MQS-2740	2700	4000	20.6	43	20.7	66~14.5	0.3~0.074	450	95
MQS-2745	2700	4500	23.2	48	20.7	75~16	0.3~0.074	480	102
MQS-2750	2700	5000	25.8	54	20.6	83~17.6	0.3~0.074	560~630	109
MQS-2760	2700	6000	31	65	20.6	99~21.5	0.3~0.074	630~710	119
MQS-3040	3000	4000	25.7	54	19	86~18	0.3~0.074	560~630	114
MQS-3064	3000	6400	40.2	84	19	138~28.5	0.3~0.074	1000	145
MQS-3230	3200	3000	21.8	46	18.2	78~15.5	0.3~0.074	500	116
MQS-3236	3200	3600	26.2	56	18.2	94~18.6	0.3~0.074	630	121
MQS-3245	3200	4500	32	65	18.2	105~23.8	0.3~0.074	800	132
MQS-3254	3200	5400	38	80	18.2	125~28.5	0.3~0.074	1000	146
MQS-3640	3600	4000	36	75	18	135~25	0.3~0.074	1000	153
MQS-3645	3600	4500	40.8	88	18	150~29	0.3~0.074	1250	168
MQS-3650	3600	5000	46	96	18	166~35	0.3~0.074	1400	176
MQS-3660	3600	6000	54	117	18	199~38	0.3~0.074	1400~1600	198
MQS-4050	4000	5000	58	121	16.9	208~45	0.3~0.074	1500	230
MQS-4060	4000	6000	70	146	16.9	248~65	0.3~0.074	1800	242
MQS-4560	4500	6000	87	182	15.6	308~80	0.3~0.074	2300	290

型号 Model	筒体 Cylinder		有效容积 Effective Volume (m³)	装球量 Max.Ball Loading (t)	转速 Speed (r/min)	产量 Capacity (t/h)	出料粒度 Discharging size(mm)	主电动机 Main Motor (KW)	总重量 Weight (t)
	直径 Diameter (mm)	长度 Length (mm)							
MQG-1557	1500	5700	8.5	12	28	11~3.5	0.6~0.074	130	24.7
MQG-1564	1500	6400	9.6	13	28	12.5~3.9	0.6~0.074	155	27
MQG-1864	1830	6400	15	20	23.8	19.5~6	0.6~0.074	210	42
MQG-1870	1830	7000	16	22	23.8	21~6.5	0.6~0.074	245	43.5
MQG-1880	1830	8000	18.8	26	23.8	24~7.5	0.6~0.074	280	46
MQG-2170	2100	7000	22	30	24.1	28~8	0.6~0.074	320	58
MQG-2175	2100	7500	23.5	33	24.1	30~8.5	0.6~0.074	355	59.5
MQG-2265	2200	6500	22	35	21.7	32~9.2	0.6~0.074	380	61
MQG-2270	2200	7000	23.8	38	21.7	34.5~9.9	0.6~0.074	380	62.5
MQG-2275	2200	7500	25.5	42	21.7	37.5~10.8	0.6~0.074	450	64
MQG-2470	2400	7000	28	52	21.7	41~18.8	0.6~0.074	570	81
MQG-2480	2400	8000	32	60	21.5	47~21.5	0.6~0.074	630	86
MQG-2750	2700	5000	25.8	54	20.7	42~18.5	0.6~0.074	630	112
MQG-2760	2700	6000	31	65	20.6	49~21.5	0.6~0.074	710	121

技术参数变动恕不另行通知
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3、棒磨机技术参数表
 Technical Parameter Table of Rod Mill

型号 Model	筒 体 Cylinder		有效容积 Effective Volume (m³)	装棒量 Max.Rod Loading (t)	转速 Speed (r/min)	产量 Capacity (t/h)	出料粒度 Discharging size(mm)	主电动机 Main Motor (KW)	总重量 Weight (t)
	直径 Diameter (mm)	长度 Length (mm)							
MBS(Y)-1530	1500	3000	4.5	8	27	15~6	2.0~0.15	90	18
MBS(Y)-1532	1500	3200	4.8	8.5	27	16~6.5	2.0~0.15	90	19
MBS(Y)-1830	1830	3000	6.7	14	23.7	20~9	2.0~0.15	155	34.5
MBS(Y)-1832	1830	3200	7.2	15	23.7	22~10	2.0~0.15	155~180	36
MBS(Y)-2130	2100	3000	8.8	18	21.4	30~12	2.0~0.15	210	45
MBS(Y)-2132	2100	3200	9.6	20	21.4	32~12.8	2.0~0.15	210	47
MBS(Y)-2136	2100	3600	11	23	21.4	35~14	2.0~0.15	245	48.5
MBS(Y)-2230	2200	3000	10	21	19	34~13	2.0~0.15	245	50
MBS(Y)-2236	2200	3600	12	25	19	40~16	2.0~0.15	245	52
MBS(Y)-2430	2400	3000	12	25	19	40~17	2.0~0.15	280	53.5
MBS(Y)-2436	2400	3600	14	29	19	47~19	2.0~0.15	320	61
MBS(Y)-2730	2700	3000	15.5	32.5	18.4	55~21	2.0~0.15	355	72
MBS(Y)-2736	2700	3600	18	38	18.4	65~24	2.0~0.15	400	89
MBS(Y)-2740	2700	4000	20.6	43	18.4	80~28	2.0~0.15	480	95
MBS(Y)-3040	3000	4000	25.7	54	17	90~34	2.0~0.15	630	114
MBS(Y)-3230	3200	3000	21	44	16.4	73~28	2.0~0.15	500	116
MBS(Y)-3245	3200	4500	32	67	16.4	110~44	2.0~0.15	800	132
MBS(Y)-3642	3600	4200	38	79.5	15.8	120~50	2.0~0.15	1000	153
MBS(Y)-3645	3600	4500	40.8	85	15.8	140~56	2.0~0.15	1000~1250	168
MBS(Y)-3650	3600	5000	46	96	15.8	155~65	2.0~0.15	1250	176
MBS(Y)-3660	3600	6000	54	113	15.8	190~80	2.0~0.15	1400	198

技术参数变动恕不另行通知
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4、自磨机技术参数表
 Technical Parameter Table of Autogenous Mill

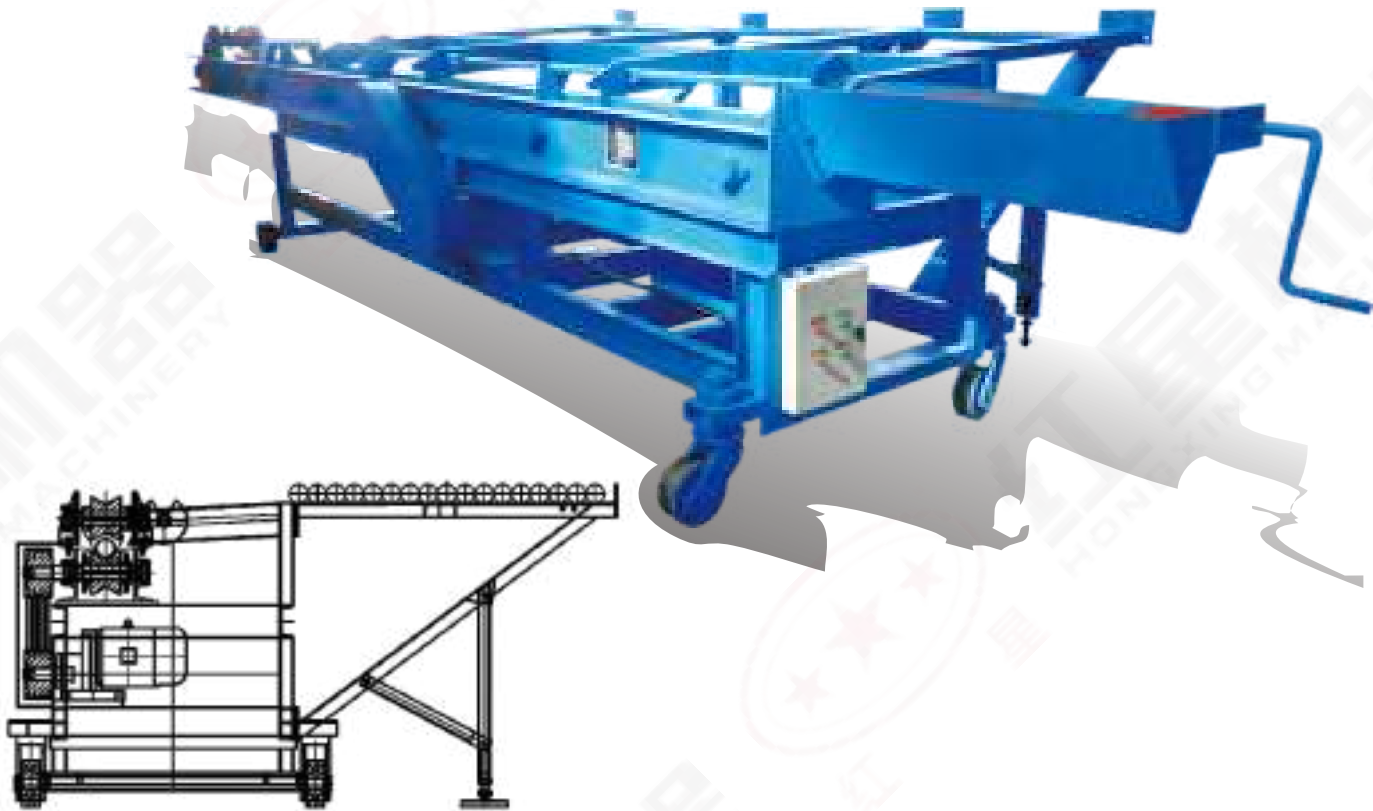
型号 Model	筒 体 Cylinder		有效容积 Effective Volume (m³)	转速 Speed (r/min)	主电动机 Main Motor (KW)	总重量 Weight (t)
	直径 Diameter (mm)	长度 Length (mm)				
MZ-2410	2400	1000	4.5	22	55	18.5
MZ-3212	3200	1200	9.2	18.2	160	32.8
MZ-4014	4000	1400	16.6	17.6	245	64
MZ-5518	5500	1800	34.6	15	800	178
MZ-6433	6400	3300	107	12.8	2000	306
MZ-7525	7500	2500	107	11.4	2000	355

技术参数变动恕不另行通知
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- 注：
- 设备重量不含研磨体；
 - 磨机的生产能力为估算产量，实际应根据物料特性、工艺设定条件等情况进行确定；
 - 订货时请注明电机电压、传动布置形式（左旋或右旋：若无明示，生产厂家均按右旋统一供货）。

- Note:
- Weight of grinding media ball is not included.
 - The mill production capacity is the estimated output,and the actual ones shall be determined by material characteristic,technological setting condition and etc.
 - When placing order, please indicate the motor voltage & driving mode (Dextrorotary or levorotatory type: if no indication, manufacturer will supply equipments in dextrorotary).

Deliver Machine
 加棒机



我公司研制生产的移动式加棒机，专用于为棒磨机添加直径范围在Φ25~90mm的介质棒。该机主要由架体、导棒装置、托辊装置、传动装置、拨棒装置及电控装置等部分组成。具有操作简单、使用方便、性价比高的优点。

Deliver Machine made by our company is specially designed for adding media rods diameter ranged device Φ25~90mm to Rod Mill. It is mainly made up by main frame, rod guiding unit, supporting roller unit, driving unit transmission, rod removing unit and electric control unit. It is easy to operate and use, and with high cost performance.

●技术参数表
 Technical Parameter Table:

型号 Model	加棒直径 Rod Diameter (mm)	加棒长度 Rod Length (mm)	加棒棒速 Deliver Rod Velocity (m/s)	电机功率 Motor Power (KW)
JB4000	25~90	≤4000	2.05	7.5
JB5000		≤5000		11
JB6000		≤6000		---

技术参数变动恕不另行通知
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红星产品篇 Products 2

春种一粒粟 秋收万颗子
A Small Seed in Spring ,A Rich Harvest in Autumn.

Tube Mill 管磨机

- 原料磨 Raw Mill
- 水泥磨 Cement Mill
- 矿渣磨 Slag Mill
- 粉煤灰磨 Fly Ash Mill
- 脱硫石灰石球磨机 Desulphurization Limestone Ball Mill
- 风扫煤磨 Air-swept Coal Mill
- 球破机 Ball-crush Mill



Raw Mill
 原料磨

1.用途：

原料磨广泛用于建材、冶金、电力及化工行业粉磨（烘干兼粉磨）水泥原料及其它物料。

2.分类及特点：

- a. **普通原料磨** 适用于中小型规模的原料粉磨系统，一般用于磨外选分的圈流粉磨系统。
- b. **风扫磨** 风扫磨的特点是短而粗，进出料中空轴轴径大，烘干仓和粉磨仓之间的隔仓板篅缝面积很大，磨尾无出料篅板，故通风阻力很小，粉磨仓的风速可达5m/s以上，能够进入大量的热风，因而烘干能力强。
- c. **尾卸提升循环磨** 尾卸提升循环磨与风扫磨的基本区别在于入磨物料通过烘干仓至粉磨仓的尾端用机械方法卸出，然后用提升机送入选粉机，粗物料再返回磨机循环粉磨。
- d. **中卸提升循环磨** 中卸提升循环磨从烘干作用来说，是风扫磨和尾卸提升循环磨的结合；从粉磨作用来说，实际上相当于二级圈流粉磨系统。这种磨机前端设有烘干仓，具有良好的烘干效果；原料从磨头喂入，选粉机的回料分别从磨头、磨尾回入粗磨仓和细磨仓；磨中出料，经提升机提至选粉机分选；大部分回料回入细磨仓，其余回入粗磨仓。

1.Usage:

Raw material mill is used widely for grinding (both drying and grinding) cement raw material and other materials in buinding material, metallurgical,electric and chemical industries.

2.Sort and Features:

- a. **Common Raw Mill** It is used for small & medium-sized raw materials grinding system which generally is cycle flow system with material separating system outside the mill.
- b. **Air-swept Mill** The feature of Air-swept mill is short and thick in shell , wide in diameter of inlet & outlet trunion, large in grate gap area of diaphragms between drying chamber & grinding chamber, no grate plate in mill outlet.Therefore, air speed inside of mill could reach 5m/s due to small resistance and drying capacity is strong since large amout of hot air could get in.
- c. **Outlet Discharging & Lifting Cycle Mill** Comparing with Air-swept Mill, materials, passing through the drying chamber, are discharged at the outlet of grinding chamber by mechanical way, and then fed into seperator by elevator which would return the coarse materials to mill again for cycle grinding.
- d. **Middle Discharging & Lifting Cycle Mill** From the view of drying, it is the combination of Air-swept Mill & Outlet Discharging & Lifting Cycle Mill; from the view of grinding, it workssimilar to secondary stage cycle grinding system. At the front end, it has drying chamber with high drying efficiency. Materials are fed from mill inlet, returned materials from seperator are fed through mill inlet & mill outlet into rough grinding chamber & fine grinding chamber respectively.

●技术参数表

Technical Parameter Table:

规格Spec./m (直径×长度) (Dia.×Length)	磨机工 作转速 Speed(r/min)	入料粒度 Feeding Size(mm)	生产能力 Capacity(t/h)	研磨体装载量 Grinding Media Loading (t)	主电动机 Main Motor (KW)	主减速机 Main Reducer	总重量 Weight (t)
Φ2.2×7.0	21.7	<25	20~25	35	380	ZD70	62.5
Φ2.2×7.5	21.7	<25	22~26	35	380	ZD70	64
Φ2.2×8.0	21.5	<25	23~27	36	480	ZD70	66
Φ2.2×9.0	21.5	<25	24~28	40	480	ZD70	69
Φ2.4×7.0	21.5	<25	24~28	36.5	480	ZD70	81
Φ2.4×8.0	21.5	<25	26~30	42	570	ZD80	86
Φ2.4×9.0	21.5	<25	28~32	55	630	ZD80	92
Φ2.4×10	20.3	<25	30~35	55	630	ZD80	108
Φ2.6×8.0	19.7	<25	30~35	51	630	MBY630	112
Φ2.6×9.0	19.7	<20	40~45	58	710	MBY630	120
Φ2.6×10	19.7	<20	45~50	64	800	MBY710	130
Φ3.0×9.0	18.2	<20	50~55	78	1000	MBY800	158
Φ3.0×11	18.2	<20	55~60	95	1250	MBY800	178
Φ3.2×10	17.8	<25	60~65	100	1400	MBY900	200
Φ3.2×11	17.8	<25	70~80	110	1400	MBY900	215
Φ3.4×7.5	16.9	<20	50~55	80	1000	MBY800	178
Φ3.4×7.5+1.8	16.9	<20	55~60	70	1250	MBY800	190
Φ3.5×10	16.8	<20	70~75	140	1600	MBY1000	200
Φ3.8×7.5	16.5	<15	85~90	130	1600	MBY1000	185
Φ3.8×8.5	16.5	<15	90~95	160	1800	MBY1000	195
Φ4.6×8.5+3.5	15	<15	140~150	150	2800	MFY280	325
						JS140-A	
Φ4.6×9.5+3.5	15.1	<15	180~190	180	3550	JS150-B	345
Φ4.6×10+3.5	15.1	<15	200~210	190	3550	JS150-B	370

注：

- 1.设备重量不含研磨体；
- 2.按用户要求可以提供Φ2.2~Φ3.2系列滚动轴承磨机；
- 3.订货时请注明电机电压、传动布置形式（左旋或右旋；若无明示，生产厂家均按右旋统一供货）。

Note:

- 1.Weight of grinding media ball is not included.
- 2.Φ2.2~Φ3.2 serials rolling bearing mill could be supplied as per the requirement of customer.
- 3.When placing order, please indicate the motor voltage & driving mode (Dextrorotary or levorotatory type: if no indication, manufacturer will supply equipments in dextrorotary).

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

Cement Mill
水泥磨



1.用途：

水泥磨主要用于建材、冶金、电力及化工行业粉磨各种水泥熟料及其它物料。

2.分类及特点：

- a. **普通水泥磨** 普通水泥磨大部分用于圈流磨系统中，其特点是粉磨效率高、磨机产量大、电耗省，特别是粉磨矿渣水泥时，表现更突出一些。一般磨机产量可提高15–20%，电耗降低约10%，此外，成品温度可降低20–40℃，产品细度也易于调整。
- b. **高细高产水泥磨** 高细高产水泥磨主要用于开流粉磨系统中。其特点是系统设备及工艺流程简单、投资省、厂房占地面积小；在磨机结构上采用先进的内选粉特殊隔仓装置，细磨仓增加了活化装置，磨尾有专用出料篦板，最大限度的减少研磨仓研磨介质的尺寸，大大提高研磨效率，达到高产量、低能耗的目的。

1. Usage:

Cemeng Mill is mainly used for grinding various cement clinker or other materials in building material, metallurgical, electric and chemical industries.

2. Sorts & Features:

- a. **Common Cement Mill** It is mainly used in cycle grinding system, with features of high grinding efficiency, high production, low power consumption. Especially, when grinding slag cement, its performance is more outstanding. Generally speaking, production could be 10–20% higher, and power consumption 10% lower. Besides, product temperature could reduce 20–40℃ and product fineness is easy to adjust.
- b. **High Fineness & Production Cement Mill** It is mainly used in open flow grinding system, with features of simple equipment system & process flow, saving investment, less building area. Regarding structure, it has advanced & specal material seperating diaphragm device inside, adds activation device to fine grinding chamber, and has discharging grate plate at mill outlet, thus to reduce the size of grinding media at the most and promote the grinding efficiency highly,realise the purpose of high prodction & low power consumption.

●技术参数表

Technical Parameter Table:

规格Spec./m (直径×长度) (Dia.×Length)	磨机工 作转速 Speed(r/min)	入料粒度 Feeding Siza(mm)	生产能力 Capacity(t/h)	研磨体装载量 Griding Media Loading (t)	主电动机 Main Motor (KW)	主减速机 Main Reducer	总重量 Weight (t)
Φ2.2×7.0	21.5	<25	13~14	32	380	ZD70	62.5
Φ2.2×9.0	21.5	<25	14~15	44	480	ZD70	69
Φ2.2×9.5	21.5	<25	14~16	45	480	ZD70	74
Φ2.2×11	21.5	<25	16~18	58	630	ZD80	109
Φ2.2×13	21.5	<25	20~22	58	630	ZD80	114
Φ2.4×10	20.3	<25	18~20	55	630	ZD80	108
Φ2.4×11	20.3	<25	19~22(开流Open Flow)	62	710	MBY710	116
			22~25(圈流Cycle Flow)				
Φ2.4×12	20.3	<25	21~23(开流Open Flow)	68	800	MBY710	128
			24~26(圈流Cycle Flow)				
Φ2.4×13	20.3	<25	22~24(开流Open Flow)	68	800	MBY710	138
			25~28(圈流Cycle Flow)				
Φ2.6×11	19.7	<25	24~26	68	800	MBY710	138
Φ2.6×13	19.7	<25	28~32	82	1000	MBY800	158
Φ3.0×9.0	18.2	<25	28~32	78	1000	MBY800	158
Φ3.0×11	18.2	<25	31~35	95	1250	MBY800	178
Φ3.0×12	18.2	<25	32~36	100	1250	MBY800	182
Φ3.0×13	18.2	<25	33~37	108	1400	MBY900	190
Φ3.2×11	17.8	<25	40~45	110	1400	MBY900	215
Φ3.2×13	17.8	<25	45~50	128	1600	MBY1000	230
Φ3.2×13	17.7	<25	50~55(圈流Cycle Flow)	128	1600	JS120-A	230
Φ3.2×14	17.8	<25	48~53	138	1800	MBY1000	249
Φ3.5×11	17.1	<25	55~60(圈流Cycle Flow)	160	1800	MBY1000	220
Φ3.5×13	17.3	<25	60~65(圈流Cycle Flow)	175	2000	MBY1000	275
Φ3.8×12	17	<25	63~68(圈流Cycle Flow)	175	2500	JS130-C	197
Φ3.8×13	17	<25	65~70(圈流Cycle Flow)	190	2500	MBY1100	245
Φ4.0×13	16.3	<25	75~80(圈流Cycle Flow)	200	2800	JS140-A	250
Φ4.2×11	15.8	<25	100~110(圈流Cycle Flow)	195	2800	JS140-A	248
Φ4.2×13	15.8	<25	110~120(圈流Cycle Flow)	230	3150	JS140-C	255
Φ4.2×14	15.6	<25	120~135(圈流Cycle Flow)	252	3550	JS150-B	270
Φ4.2×15	15.6	<25	140~150(圈流Cycle Flow)	270	4000	JS160-B	288
Φ4.6×14	15.1	<25	140~150(圈流Cycle Flow)	285	4200	JS160-C	320
Φ4.6×15	15.1	<25	150~160(圈流Cycle Flow)	305	4500	JS160-D	335

注：

- 1.设备重量不含研磨体；
2.按用户要求可以提供Φ2.2~Φ3.2 系列滚动轴承磨机；
3.可以按高细磨供货；
4.订货时请注明机电电压、传动布置形式（左旋或右旋：若无明示，生产厂家均按右旋统一供货）。

Note:

- 1.Weight of grinding media ball is not included.
2.Φ2.2~Φ3.2 serials rolling bearing mill could be supplied as per the requirement of customer.
3.Equipment could be supplied as High Fineness & Production Mill.
4.When placing order, please indicate the motor voltage & driving mode (Dextrorotary or levorotatory type: if no indication, manufacturer will supply equipments in dextrorotary).

技术参数变动恕不另行通知
Technical parameters are subject to change without notice.

Slag Mill
 矿渣磨



矿渣磨采用高细筛粉磨技术，特殊的双层隔仓装置、活化衬板和磨尾出料装置，使用微型研磨体，可以对矿渣进行高线的粉磨和研磨，从而达到较高的生产能力，并且能够大幅度降低综合粉磨电耗，其使用性能达到国内领先水平；设备维护、检修方便，磨损件容易更换。

Slage Mill adopts high fine sieve technology, specical double layer diaphragm device, activation liner, kiln outlet discharging device, minitype grinding media, grinds slag with high efficiency and realises high production & low power consumption. The performance has reached the advanced international level. And, the slag mill is easy to maintain and wear parts are easy to change.

● 技术参数表 Technical Parameter Table:							
规格Spec./m (直径×长度) (Dia.×Length)	磨机工 作转速 Speed(r/min)	入料粒度 Feeding Size(mm)	生产能力 Capacity(t/h)	研磨体装载量 Grinding Media Loading (t)	主电动机 Main Motor (KW)	主减速机 Main Reducer	总重量 Weight (t)
Φ1.83×7.0	23.8	<20	3~5	22	245	ZD60	43.5
Φ1.83×9.5	24.1	<20	5~7	31	355	ZD70	56
Φ2.2×9.5	21.5	<20	8~10	43	480	ZD70	74
Φ2.2×11	21.5	<20	10~12	58	630	ZD80	109
Φ2.4×11	20.3	<20	12~14	62	710	MBY710	116
Φ2.4×13	20.3	<20	14~16	68	800	MBY710	138
Φ2.6×11	19.7	<20	15~16	69	800	MBY710	138
Φ2.6×13	19.7	<20	16~18	82	1000	MBY800	158
Φ3.0×12	18.2	<20	21~23	108	1400	MBY900	182
Φ3.0×13	18.2	<20	21~23	108	1400	MBY900	190
Φ3.2×13	17.8	<20	25~27	128	1600	MBY1000	230
Φ3.2×14	17.8	<20	28~30	138	1800	MBY1000	249
Φ3.5×13	17.3	<20	32~35	156	2000	MBY1000	275

注：
 1.设备重量不含研磨体；
 2.可根据用户的需要设计各种非标矿渣磨；
 3.订货时请注明电机电压、传动布置形式(左旋或右旋；若无明示，生产厂家均按右旋统一供货)。

Note:
 1.Weight of grinding media ball is not included.
 2.Non-standard slag mill could be supplied as per requirements of customers.
 3.When placing order, please indicate the motor voltage & driving mode (Dextrorotary or levorotatory type: if no indication, manufacturer will supply equipments in dextrorotary).

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

Fly Ash Mill 粉煤灰磨



1. 粉煤灰磨的应用：

随着我国粉煤灰综合利用技术的日益成熟和推广，粉煤灰综合利用已经不仅限于环保的要求，粉煤灰综合利用的巨大经济效益已经得以体现。在我国一些发达地区，粉煤灰成品细灰甚至出现供不应求的局面。现国内大量燃煤电厂所排放的原状灰，其细度一般在20~50%之间变化（45μm方孔筛筛余量），达不到国家标准规定的Ⅰ级灰（45μm方孔筛筛余量不大于12%）、Ⅱ级灰(45μm方孔筛筛余量不大于20%)的要求。

利用粉煤灰专用超细磨机将原状灰或分选后的粗灰进行超细研磨，达到粉煤灰完全利用的目的，创造更大的经济效益。

2. 我公司生产的粉煤灰磨具有以下特点：

- a. 磨细灰的细度保证能达到Ⅰ、Ⅱ级灰的标准；
- b. 磨细灰内的玻璃微珠，经超细磨研磨后仍保持原来的状态。
- c. 磨细灰产量和质量稳定可靠。
- d. 特殊设计的中间隔仓装置，便于控制物料前仓料面与流速，使磨内筛分曲线趋于合理。
- e. 后仓中挡料圈设计带有活化功能，避免微型钢锻产生滞留区，能提高磨细效率。

1. Usage

Along with maturity & application of the comprehensive utilization technology of fly ash, it has been beyond environmental protection requirement and brought great economic benefit. In the developed areas of China, fine fly ash is demanded more than that being supplied. However, raw fly ash, mainly produced by electric power plant, with fineness 20~50% sieve residue at 45μm sieve, could not meet the requirements of Ash GradeⅠ (12% sieve residue at 45μm sieve) & Ash GradeⅡ (20% sieve residue at 45μm sieve),as specified by the National Standard for industrial application.

Fly Ash Mill is designed and manufactured to grind raw fly ash or rejected raw fly ash after being seperated, realize full utilization of fly ash and create bigger economic benefit.

2. Features

Fly Ash Mill manufactured by Zhongde has following features:

- a. Fineness of products is guaranteed to reach ash gradeⅠ,Ⅱ.
- b. Glass microsphere contained in fly ash keep its own status after fly ash is grinded.
- c. Output & quality of products is steady & reliable.
- d. Middle chamber designed specially make it very convenient to control material level & flow and make sieve curve reasonable.
- e. Material dam ring inside back chamber has activation funtion to avoid residual region and improve the efficiency of mill.

●技术参数表 Technical Parameter Table:

规格Spec./m (直径×长度) (Dia.×Length)	磨机工 作转速 Speed(r/min)	生产能力 Capacity(t/h)		研磨体装载量 Grinding Media Loading (t)	主电动机 Main Motor (KW)	主减速机 Main Reducer	总重量 Weight (t)
		易磨 Easy Grinding	难磨 Hard Grinding				
Φ1.83×7.0	23.8	12~13	5~6	22	245	ZD60	43.5
Φ1.83×8.0	23.8	15~16	7~8	26	280	ZD60	46
Φ1.83×9.5	24.1	16~17	11~12	31	355	ZD70	56
Φ2.1×8.5	23.9	18~19	14~15	40	480	ZD70	66
Φ2.1×10	23.9	19~20	15~16	44	480	ZD70	70
Φ2.2×9.0	21.5	19~20	15~16	44	480	ZD70	69
Φ2.2×9.5	21.5	21~22	17~18	45	480	ZD70	74
Φ2.2×11	21.5	23~24	18~19	50	570	ZD80	109
Φ2.2×13	21.5	25~26	20~21	58	630	ZD80	114
Φ2.4×12	20.3	29~30	22~23	63	800	MBY710	128
Φ2.4×13	20.3	32~33	25~26	68	800	MBY710	138
Φ2.6×13	19.7	37~38	30~31	82	1000	MBY800	158
Φ3.2×13	17.8	55~60	43~48	128	1600	MBY1000	230

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

注：

- 1.设备重量不含研磨体；
- 2.可根据用户的需要设计各种非标粉煤灰磨；
- 3.生产能力以来样试验为准；
- 4.订货时请注明电机电压、传动布置形式（左旋或右旋：若无明示，生产厂家均按右旋统一供货）。

Note:

- 1.Weight of grinding media is not included.
- 2.Non-standard fly ash mill could be supplied as per the requirement of customer.
- 3.Mill capacity depends on the test result of sample.
- 4.When placing order, please indicate the motor voltage & driving mode (Dextrorotary or levorotatory type: if no indication, manufacturer will supply equipments in dextrorotary) .

Desulphurization
Limestone Ball Mill
脱硫石灰石球磨机



1. 用途：

石灰石球磨机是我公司自主研发的一种新型环保设备，是火力发电厂烟气脱硫剂-石灰石浆液制备系统的主体设备。同时，也适用于冶金、化工、铝业等行业烟气脱硫剂的制备系统。

2. 特点：

该产品具有结构紧凑，安装维修方便，运转平稳等优点，广泛用于粉碎各种硬度的石灰石、磷矿石及其它可磨性物料。使用性能达到国内领先水平；设备维护、检修方便，磨损件容易更换。

我公司可根据用户的不同要求，设计制造各种规格的石灰石磨机以及各种非标石灰石磨。

1. Usage:

Desulphurization Limestone Ball Mill is developed and manufactured independently by Zhongde. It is a new type of environmental protection equipment and key equipment for making & preparing system of limestone slurry which is gas desulphurization agent in thermal power plant, also in metallurgical, chemical & aluminium industries.

2. Features:

The mill, with compact structure, is easy to install & maintain, steady in running, and widely used for grind limestone, phosphate ore and other grindable materials of different hardness. The performance is advanced in domestic market. Wear parts are easy to change.

We could manufacture all sizes of limestone mill and non-stanard mill as per requirements of client.

● 技术参数表（湿式）
 Technical Parameter (for wet type Limestone Mill)

规格 Spec. (m)	Φ1.83×6.4	Φ2.2×5.4	Φ2.4×5.8	Φ2.7×6.0	Φ2.7×6.5	Φ2.9×6.5	Φ2.9×7.0	Φ3.2×6.4	Φ3.2×7.0
项目 Item									
工作转速 Speed (r/min)	23.8	21.3	21.7	20.5	20.5	19	19	18.2	18.2
生产能力 Capacity (t/h)	3~5	6~8	9~10	13~14	15~16	16~18	18~20	22~24	24~26
研磨体装载量 Grinding Media Loading (t)	20	25	32	43	47	50	54	62	70
主减速机 Main Reducer	ZD60	ZD60	ZD70	ZD70	ZD70	MBY560	MBY560	MBY630	MBY630
主电动机 Main Motor (KW)	210	280	380	570	570	630	630	800	900
总重量 Weight (t)	42	58	76	121	125	138	141	152	159

● 技术参数表（干式）
 Technical Parameter (for dry type Limestone Mill)

规格 Spec. (m)	Φ1.83×7.0	Φ2.2×7.0	Φ2.4×7.0	Φ2.4×9.0	Φ2.6×8.0	Φ2.6×10	Φ2.8×9.0	Φ3.0×9.0	Φ3.0×11
项目 Item									
工作转速 Speed (r/min)	23.8	21.7	21.7	21.5	19.7	19.7	18.3	18.2	18.2
生产能力 Capacity (t/h)	3~5	6~8	8~10	12~14	14~16	16~18	18~20	22~24	24~26
研磨体装载量 Grinding Media Loading (t)	22	35	39	48	52	65	72	78	95
主减速机 Main Reducer	ZD60	ZD70	ZD70	ZD80	MBY630	MBY710	MBY630	MBY800	MBY800
主电动机 Main Motor (KW)	245	380	480	570	630	800	900	1000	1250
总重量 Weight (t)	43.5	62.5	81	92	112	130	145	158	178

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

注：

- 1.设备重量不含研磨体；
- 2.订货时请注明电机电压、传动布置形式（左旋或右旋；若无明示，生产厂家均按右旋统一供货）。

Note:

- 1.Weight of grinding media ball is not included..
- 2.When placing order, please indicate the motor voltage & driving mode(Dextrorotary or levorotatory type: if no indication, manufacturerwill supply equipments in dextrorotary).

Air-swept
Coal Mill
风扫煤磨



- 1.用途:
- 风扫煤磨是回转窑水泥熟料生产的主要设备，同时也适用于火力发电、冶金工业、化学工业、制糖工业等制粉设备系统。
2. 特点:
- 我公司生产的风扫煤磨具有如下特点：

a.能够连续生产，生产能力大。

b.细度容易调整。

c.结构紧凑，运转平稳，安装维修方便，使用寿命长。

d.对物料适应性强，可以粉磨各种硬度的煤炭。

1. Usage:
- Air-swept Coal Mill is the key equipment of rotary kiln cement clinker production system, also used in thermal power plant,metallurgy, chemical & sugar industry.
- 2.Features:
- The air-swept coal mill produce by our company has the following features:

a.Production continuously, high output.

b.Fineness adjustable.

c.Compact structure, running steadily, convenient to install & maintain, long service life.

d.Adaptability to various of materials and grinding coal with different hardness.

● 技术参数表
 Technical Parameter Table:

规格 Spec. (m)	Φ1.7×2.5	Φ2.2×3.0	Φ2.2×3.5	Φ2.2×4.4	Φ2.2×4.4+1.3	Φ2.4×4.75	Φ2.4×4.5+2	Φ2.5×3.9
项目 Item								
工作转速 Speed (r/min)	24.75	22.4	21.3	22.4	22.4	21.2	20.4	20
生产能力 Capacity (t/h)	3-5	5-6	6-7	8-9	8-9	12-14	11-12	10
产品细度 FinenessR80(%)	10-12	10-12	10-12	10-12	10-12	8-10	8-10	8-10
进料粒度 Feeding Size (mm)	<25	<25	<25	<25	<25	<25	<25	<25
研磨体装载量 Grinding Media Loading (t)	7.5	13	15	20	20	22	22.5	22
水分 Mositure (%)	进磨 Inlet	<10	<10	<10	<10	<10	<10	<10
	出磨 Outlet	<2	<2	<2	<2	<2	<2	<2
温度 Temp. (℃)	进磨 Inlet	<350	<350	<350	<350	<350	<350	<350
	出磨 Outlet	60~80	60~80	60~80	60~80	60~80	60~80	70~90
主减速机 Main Reducer	ZD40	ZD60	ZD60	ZD60	ZD60	ZD60	ZD60	ZD60
主电动机 Main Motor (KW)	90	185	210	250	250	280	315	315
总重量 Weight (t)	23	38	41	46	48.5	54	76	62

规格 Spec. (m)	Φ2.6×5.25+2.25	Φ2.8×5+3	Φ2.9×4.1	Φ3.0×6.5+2.5	Φ3.2×6.75+2	Φ3.4×6+3	Φ3.8×7+2.5	Φ3.8×7.25+3.5
项目 Item								
工作转速 Speed (r/min)	19.7	18.3	18.8	18.3	16.9	17.5	16.4	16.4
生产能力 Capacity (t/h)	13~14	16~17	14~16	19~20	27~29	28~30	38~40	41~43
产品细度 Fineness R80(%)	8-10	8-10	8-10	8-10	8-10	12	12	12
进料粒度 Feeding Size (mm)	<25	<25	<25	<25	<25	<25	<25	<25
研磨体装载量 Grinding Media Loading (t)	28	32	35	43	50	55	80	85
水分 Mositure (%)	进磨 Inlet	<10	<12	<10	<10	<12	<12	<12
	出磨 Outlet	<2	<2	<2	<2	<2	<2	<2
温度 Temp. (℃)	进磨 Inlet	<350	<350	<350	<350	<350	<350	<350
	出磨 Outlet	70~90	60~80	60~80	70~90	80~90	60~80	60~80
主减速机 Main Reducer	ZD70	ZD70	ZD70	ZD80	ZD80	MBY710	MBY800	MBY900
主电动机 Main Motor (KW)	400	500	500	630	710	800	1250	1400
总重量 Weight (t)	98	107	78	124	148	162	178	220

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

- 注:
- 1.设备重量不含研磨体；
 2.订货时请注明电机电压、传动布置形式（左旋或右旋：若无明示，生产厂家均按右旋统一供货）。
- Note:
- 1.Weight of grinding media is not included.
 2.When placing order, please indicate the motor voltage & driving mode(Dextrorotary or levorotatory type: if no indication, manufacturer will supply equipments in dextrorotary).

Ball-crush
Mill 球破机



1.用途：

新型球破机是突破传统的破碎理念，专门为水泥厂破碎生料、熟料所设计的一种新型的预粉磨设备。也适用于选矿、化工、煤炭、陶瓷、冶金等行业部门。

2.特点：

- a.筒体内安装特殊的环沟阶梯衬板，破碎采用大钢球，提升高度高，冲击破碎能力强。
- B.筒体尾部采用篦板出料。合格的物料被筛选出球破机，不合格的在磨内继续破碎研磨。出料粒度的大小可通过篦缝的大小调节。
- c.筒体上开设人孔，便于倒球、换球、更换衬板等。
- d.筒体出料端周向开设腰型孔，物料利用离心力从腰型孔抛向出料罩。

该设备具有高可靠性、低消耗性、大破碎比、适应性强等优点，使用性能达到国内领先水平。

1. Usage:

The new type of Ball-crush Mill is an innovation to traditional crushing concept, a new pre-grinding equipment specially designed for raw materials & clinker crushing in cement plant. It is also used in mining,chemical, coal, ceramics & metallurgy industries.

2. Features:

- a. Circular groove stage liner is bolted on the shell inner side and big steel ball is used. Therefore, lifting height is big and crushing capacity is strong.
- b. Materials are discharged through the grate plate at the end of shell. Fine materials is seperated from the mill and rejected material are kept being grinded in the mill. Product size could be adjusted through adjusting the grate gap.
- c. Man hole is made on the shell, which make it convenient to input,change balls or change liners.
- d. Waist hole is made on the shell in circumferential direction and materials are tossed to discharging guard through the hole. The mill has high reliability, low power consumption, big reduction ratio, strong adaptability, and its performance has reached advanced level in domestic market.

● 技术参数表

Technical Parameter Table:

规格 Spec. (m)	Φ2.4×2.0	Φ2.6×3.0	Φ3.0×3.0	Φ3.2×3.0	Φ3.4×3.5	Φ3.6×4.0
项目 Item						
研磨体装载量 Grinding Media Loading (t)	12	21	25	30	40	50
入料粒度 Feeding Size (mm)	≤80	≤80	≤80	≤80	≤80	≤80
产品粒度 Product Size (mm)	≤5	≤5	≤5	≤5	≤5	≤5
生产能力 Capacity (t/h)	30~40	45~50	50~60	60~80	90~110	120~130
电机功率 Main Motor (KW)	155	245	280~320	320~380	475~570	630~710
总重量Weight (t)	36.5	52	61.5	68	95	126

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

注：

- 1.设备重量不含研磨体；
- 2.研磨体装载量可根据使用厂家的具体情况进行调整，表中装球量仅供参考；
- 3.表中的产量为熟料产量；
- 4.可根据用户的要求设计各种非标球破机；
- 5.订货时请注明机电电压、传动布置形式（左旋或右旋：若无明示，生产厂家均按右旋统一供货）。

Note:

- 1. is not included weight of grinding media ball.
- 2. “Grinding media loading” is for reference only, and adjustable as per the conditons of the plant .
- 3. “Capacity” refers to clinker output.
- 4.Non-standard mill could be made as per client’ s requirement.
- 5.When placing order, please indicate the motor voltage & driving mode (Dextrorotary or levorotatory type: if no indication, manufacturer will supply equipments in dextrorotary).

红星产品篇 Products3

产品质量决定市场容量
Product quality determines market capacity

- 单筒冷却机 Monocular Cooler
- 转筒烘干机 Rotary dryer
- 回转窑 Rotary kiln
- 三筒烘干机 Three-cylinder dryer

Monocular Cooler 单筒冷却机



单筒冷却机是回转窑系统中重要的设备之一。该设备的作用是将回转窑出来的熟料（1000~1300℃）通过筒体回转带动物料与空气进行充分热交换，使物料冷却到200℃以下，同时提高熟料的质量和易磨性，将冷却物料后的空气全部入窑，作为二次循环空气，提高窑的热效率。

Monocular Cooler is one of the main equipments in rotary kiln production system. Its role is to cool the 1000~1300℃ clinker from rotary kiln to 200℃ and below by heat exchange of moving material and airflow inside the rotating barrel. The quality and grindability after cooling down is improved. The air from cooling clinker is injected into kiln, as secondary circulating air, raising the thermal efficiency of kiln.

● 技术参数表			Technical Parameter Table :		
规格Spec./m (直径×长度) (Dia.×Length)	生产能力 Capacity (t/h)	安装斜度 Installation Obliquity (%)	主减速机 Main Reducer	主电动机 Main Motor (KW)	总重量 Weight (t)
Φ1.5×15	2~3	3~5	ZQ500	15	28
Φ1.5×20	3~4	3~5	ZQ500	15	35
Φ1.8×18	4~6	3~5	ZQ500	18.5	47
Φ2.0×22	7~8.5	3~5	ZQ500	22	61
Φ2.2×18	7~8.5	3~5	ZQ500	22	64
Φ2.2×22	8~10	3~5	ZQ650	30	73
Φ2.4×24	12~15	3~5	ZS125	45	98
Φ2.5×25	15~20	3~5	ZS125	55	110
Φ2.8×28	16~22	3~5	ZL100	55	130
Φ3.0×30	20~25	3~5	ZL115	75	169
Φ3.2×36	28~32	3~5	ZL115	90	200
Φ3.3×40	32~36	3~5	ZL130	132	237

注：订货时请注明传动布置形式。
Note: please specify transmission arrangement when placing an order.

技术参数变动恕不另行通知
Technical parameters are subject to change without notice.

Rotary dryer
 转筒烘干机



工作原理：转筒烘干机主要由回转体、扬料板、传动装置、支承装置等部分组成。利用其摆布合理、角度交替变更均布于筒体内的扬料板，把含水物料抛洒在旋转的筒体内，经热气流将水分从物料中分泌出来，变成水蒸气排放于大气中，从而得到干燥的物料。

使用范围：转筒烘干机广泛用于矿山、冶金、建材、化工等行业，主要对矿粉、矿渣、粘土、石灰石、褐煤等物料的烘干。

Working principle: Rotary dryer is made up of cylinder, lifting plate, transmission, supporting devices and others. Based on reasonable layout and alternate angle-change equally spaced in cylinder, the lifting plate scatters the wet material inside rotating cylinder. Hot air flow turns water into steam letting into air, and aimed dry material is achieved.

Application scope: Rotary dryer is widely applied in mining, metallurgy, building materials, chemistry and other industries, mainly stoving mineral powder, slag, clay, limestone, lignite and other materials.

● 技术参数表
 Technical Parameter Table:

规格Spec./m (直径×长度) (Dia.×Length)	筒体容积 Shell Cubage (m³)	生产能力 Capacity (t/h)	安装斜度 Installation Obliquity (%)	最高进气温度 Highest Inlet Air Temperature (℃)	主电动机 Main Motor (KW)	总重量 Weight (t)
Φ1.2×8.0	9.0	1.9~2.4	3~5	700~800	7.5	9
Φ1.2×10	11.3	2.4~3.0	3~5	700~800	7.5	11
Φ1.5×12	21.2	4.5~5.7	3~5	700~800	15	18.5
Φ1.5×14	24.7	5.3~6.6	3~5	700~800	15	19.7
Φ1.5×15	26.5	5.7~7.1	3~5	700~800	15	20.5
Φ1.8×12	30.5	6.5~8.1	3~5	700~800	18.5	21.5
Φ1.8×14	35.6	7.6~9.5	3~5	700~800	18.5	23
Φ2.2×12	45.6	9.7~12.2	3~5	700~800	22	33.5
Φ2.2×14	53.2	11.4~14.2	3~5	700~800	22	36
Φ2.2×16	60.8	13.0~16.2	3~5	700~800	22	38
Φ2.4×14	63.3	13.5~16.9	3~5	700~800	37	45
Φ2.4×18	81.4	17.4~21.7	3~5	700~800	37	49
Φ2.4×20	90.4	19.3~24.1	3~5	700~800	45	54
Φ2.4×22	99.5	21.2~26.5	3~5	700~800	45	58
Φ2.6×24	127.4	27.2~34.0	3~5	700~800	55	73
Φ3.0×20	141.3	30.1~37.7	3~5	700~800	75	85
Φ3.0×25	176.6	37.7~47.1	3~5	700~800	75	95
Φ3.2×25	201	42.9~53.6	3~5	700~800	90	110
Φ3.6×28	285	60.8~76.0	3~5	700~800	160	135

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

- 注：1.订货时请注明传动布置形式；
- 2.参数表中的生产能力（G）是按物料初水分(W₁)：20%、终水分（W₂）：5%和单位容积蒸发强度（A）40~50公斤水/米³·小时进行计算的结果；生产能力视物料的种类及条件不同，会相对应的发生变化。

Note：

1. please specify transmission arrangement when placing an order.

2. Production capacity in above table (G) is calculated by primary material moisture (W₁):20%, final moisture (W₂):5% and evaporation intensity for unit volume (A) 40~50kg water per M³ on hour; production capacity will change with relevant materials and working conditions.

Rotary kiln 回转窑



回转窑是水泥工业中煅烧熟料的主要设备，同时广泛应用于冶金、化工、建筑、耐火材料、环保等工业。回转窑由回转筒体、支承装置、带挡轮支承装置和窑头、窑尾密封装置、喷煤管装置等部分组成。

回转窑的窑体与水平呈一定的斜度，整个窑体由托轮装置支承，并有控制窑体上下窜动的挡轮装置。传动部分除设置主传动外，还设置了为保证在主传动电源中断时仍能使窑体慢速转动、防止窑体变形的辅助传动装置。窑头采用壳罩式密封，窑尾装有轴向接触式密封装置，保证了密封的可靠性。

该产品具有单位容积产量高、质量稳定、烧成热耗低、经济效益显著等优点。

Ten rotary kiln is the key equipment in cement industry for calcinating clinker.It is also used in various industries, such as metallurgy, chemical,building, refractory material, environmental protection, etc. The kiln is composed of the cylindrical shell, roller supporting device with thrust roller, driving gear unit movable kiln hood, sealing device at kiln inlet, coal dust pipe device etc.

With a certain slope to the level,the whole kiln body is supporting rollers and fitted with thrust rollers to control up and down movement of the kiln body. Besides main driving unit for driving system,if is also fitted with the auxiliary driving unit so as to ensure the kiln could be kiln head sealing adopts housing type sealing and kiln rear uses axial contact sealing unit so that reliability of sealing could be ensured.

The special features of the kiln system are high productivity, low heat consumption, stable clinker quality and high economic efficieny.

冶金回转窑

Metallurgy rotary kiln

● 技术参数表

Technical Parameter Table:

规格 Specification	转速 Rotating speed (r/min)	斜度 Slope (%)	产量 Output (t/d)	轴承形式 Bearing	挡轮形式 Thrust roller form	电机功率 Main Motor (KW)
Φ3.2×26A	0.71~1.58	3.5	40	滚动 Rolling bearing	液压 Hydraulic	90
Φ3.2×28A	0.67~1.69	3.5	50	滚动 Rolling bearing	液压 Hydraulic	110
Φ3.5×29C	0.6~1.7	4	70	滚动 Rolling bearing	液压 Hydraulic	160
Φ4×28E	0.48~1.6	4	90	滚动 Rolling bearing	液压 Hydraulic	160
Φ4×32	0.3~1.48	4.25	120	滚动 Rolling bearing	液压 Hydraulic	160
Φ4.3×32	0.5~1.6	4	≥120	滚动 Rolling bearing	液压 Hydraulic	190
Φ4.5×30	0.46~1.45	4	≥110	滚动 Rolling bearing	液压 Hydraulic	250
Φ4.6×33	0.46~1.45	4	140	滚动 Rolling bearing	液压 Hydraulic	315

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

石油煅烧焦回转窑

Calcined Petroleum Coke rotary kiln

● 技术参数表

Technical Parameter Table:

规格 Specification	转速 Rotating speed (r/min)	斜度 Slope (%)	产量 Output (t/h)	电机功率 Main Motor (KW)	轴承形式 Bearing	挡轮形式 Thrust roller form	重量 Weight (t)
Φ2.2×45	0.504~1.51	3	5~6	55	滚动 Rolling bearing	机械 Mechanical	125.8
Φ2.84×55	0.1~2.5	3	8~10	75	滚动 Rolling bearing	机械 Mechanical	248.35
Φ2.84×58	0.25~2.5	3	8~10	75	滚动 Rolling bearing	机械 Mechanical	262.4
Φ3.6×62	1.6	3.5	12~15	110	滚动 Rolling bearing	机械 Mechanical	410.768

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

化工回转窑

Chemical industry rotary kiln

● 技术参数表

Technical Parameter Table:

规格 Specification	转速 Rotating speed (r/min)	斜度 Slope (%)	电机功率 Main Motor (KW)	轴承形式 Bearing	挡轮形式 Thrust roller form	重量 Weight (t)
Φ3×26.7	3.5	0.6	160	滚动 Rolling bearing	机械 Mechanical	257.8
Φ3.6×42	3.5	0.6	220	滚动 Rolling bearing	机械 Mechanical	568.7

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

Rotary kiln
 回转窑



陶粒砂回转窑
 Porcelain granule rotary kiln

活性石灰回转窑
 Active lime rotary kiln

建材回转窑
 Building material rotary kiln

● 技术参数表

Technical Parameter Table:

规格 Specification	生产能力 Capacity (t/d)	窑体斜度 Incline of body (%)	工作转速 Speed (r/min)	电机功率 Main Motor (KW)	主减速机 Main Reducer	总重量 Weight (t)
Φ1.6/1.9×39	120	3.5	0.3~3.0	37	ZL100	130
Φ2.0×35	100	3.5	0.24~2.4	30	ZS110	120
Φ2.5×40	180	3.5	0.2~2	45	ZS145	142
Φ2.5×50	210	3.5	0.2~2	55	ZS145	222
Φ3×48	600	3.5	0.3~3.0	110	ZS145	244
Φ3×60	700	3.5	0.3~3.0	160	ZS165	190
Φ3.2×50	1200	3.5	0.3~3.0	160	ZSY450	266
Φ3.3×50	1300	3.5	0.36~3.6	160	ZSY450	275
Φ3.3×52	1300	3.5	0.36~3.6	160	ZSY450	283
Φ3.5×54	1500	3.5	0.34~3.4	220	ZSY630	363
Φ3.6×60	1800	3.5	0.5~3.0	220	ZSY630	419
Φ4×60	2500	3.5	0.19~1.9	250	ZSY560	510
Φ4.2×60	3000	4	0.4~3.98	400	ZSY710~40~I	583
Φ4.3×60	3500	3.5	0.396~3.96	450	ZSY710~40	633
Φ4.5×66	4000	3.5	0.41~4.1	560	JH800C~SW306	710.4
Φ4.8×74	5000	4	0.396~3.96	630	JH710~40	899
Φ5.0×74	6000	4	0.35~4	710	JH800C~28	944
Φ5.6×87	8000	4	Max4. 23	800	JH900C~SW305~25	1265
Φ6.0×95	10000	4	Max5	950×2	JH900C~SW305~28	1659

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

Three-cylinder dryer
 三筒烘干机



Three-cylinder dryer is mainly applied for stoving slag, sand, coal, fly ash, iron powder, ore, quartz sand and other particle materials, with following characteristics:

1. Self-cylinder insulation, thermal efficiency up to 95%.
2. The whole length of the dryer than mono-cylinder reduced by about 50%, by this bringing down land investment.
3. Cylinder applies heat-resistant and wear-resistant steel plate welding, with long service life and easy maintenance.
4. With high thermal efficiency, temperature of outer cylinder is not more than 60℃ (temperature of outer mono-cylinder is high to 150℃).
5. Low outlet temperature, long-service dust removal, can be directly connected to air box pulse bag filter.
6. Without gear and pinion drive, but wheel rotation applied, level operation of the complete machine makes system simple and reasonable.
7. Airheater could match boiling furnace, or oil furnace and gas furnace can also be applied, which can dry materials with size below 20mm.
8. Final moisture can be adjusted according to requirement of customer.

● 技术参数表					Technical Parameter Table:	
规格Spec./m (直径×长度) (Dia.×Length)	生产能力 Capacity (t/h)				单位煤耗 Unit Coal Consume (Kg/t)	电机功率 Motor Power (KW)
	矿渣 Slag	粘土 Clay	粉煤灰 Fly Ash	黄沙 Yellow Sand		
Φ2.0×4.4	10~15	7~10	5~7	15~25	12~14	16
Φ2.5×5.0	15~25	10~15	9~11	25~35	10~12	22
Φ3.0×6.0	30~35	18~20	13~20	45~55	8~10	30
Φ3.2×6.4	40~45	23~25	22~25	60~70	8~10	44
Φ3.4×7.6	45~55	25~35	25~35	85~90	7~9	60
Φ3.5×8.0	50~60	28~40	28~45	90~100	7~9	60

技术参数变动恕不另行通知
 Technical parameters are subject to change without notice.

三筒烘干机主要用于烘干矿渣、砂、煤、粉煤灰、铁粉、矿石、石英砂等颗粒物料，其具有以下特点：

- 1.筒体自我保温，热效率高达95%；
- 2.比单筒烘干机整机长度缩短约50%，土地投资降低50%左右；
- 3.筒体采用耐热耐磨金属钢板焊接，使用寿命长，维修方便；
- 4.热效率高，外筒体温度≤60℃（单筒烘干机外筒体温度高达150℃）；
- 5.出口温度低，除尘设备使用时间长，可直接配套气箱脉冲袋式除尘器；
- 6.无大小齿轮，采用托轮转动，整机水平运行，使系统更加简捷、合理；
- 7.热风炉可配套沸腾炉（也可使用燃油、燃气炉），能烘干20mm以下的物料；
- 8.用户可根据要求调节所需的终水分指标。

Customers

红星客户篇
Customers

发货
Consignment

Consignment 发货

红星客户篇
Customers

服务无小事！ No Minor Matter in Service!

- 售前：** 1.向客户详细介绍产品，解答用户提出的问题。
2.针对不同行业的用户以及特殊要求，制订方案，供用户选择。
- 售中：** 按时按质交货，并派专业人员在运行前进行现场指导安装，协助验收调试，免费为用户的相关操作人员和维修人员进行技术讲解和培训。
- 售后：** 1.对用户定期进行回访，并随时跟踪其使用情况。
2.产品在保修期内，接到“三包”电话，2小时内做出反应。需现场维修，距离范围内24小时内到达现场。及时提供售后服务及技术咨询。
3.产品实行“三包”质保期一年，终身维护。长期保证零部件以最优价格供应。

Before-sale service:

- 1.Introduce the product to customer in detail, answer the question raised by customer carefully.
- 2.Make plans for choice according to the needs and special requirements of users in different sectors.

Sale service:

Company ensures that product is delivered on time with high quality, and sends technicians to the jobsite for guiding the installation and adjustment, assisting in the check & acceptance of products, offering technique explaining and training for operators and maintainers for free.

After sale service:

- 1.Make return visit to the users regularly, and track the actual usage.
- 2.During warranty period, once receiving a call for “three-guarantee”, make a response in 2 hours. If maintenance on site is needed, arrive at the site in 24 hours to provide service and technical advice promptly.
- 3.Three guarantee, one-year warranty, lifelong maintenance for products. Ensure supplying components and parts at best price in a long term.



红星机器，发往全国
Hongxing machinery, consigned to nationwide

Consignment

红星客户
Customers

发货
Consignment

红星产品，销往全球

Hongxing products, sold to world market



Consignment

红星品质, 全球共享
Hongxing brand, shared by global

红星客户
Customers

发货
Consignment



Customer Site

客户现场

一台设备 一方市场
One set of equipment One market occupied



- | | | | |
|-------------------------------------|-------------|-------------------------------------|-------------|
| ① MQS3640球磨机 | Ball Mill | ⑥ $\Phi 3.0 \times 50\text{m}$ 回转窑 | Rotary Kiln |
| ② MQS-2745球磨机 | Ball Mill | ⑦ $\Phi 2.7 \times 3.6\text{m}$ 球磨机 | Ball Mill |
| ③ MQS-2745球磨机 | Ball Mill | ⑧ MQS-2745球磨机 | Ball Mill |
| ④ $\Phi 3.6 \times 4.5\text{m}$ 球磨机 | Ball Mill | ⑨ MQG-2275球磨机 | Ball Mill |
| ⑤ $\Phi 4.0 \times 60\text{m}$ 回转窑 | Rotary Kiln | ⑩ MBS-2745棒磨机 | Rod Mill |



Domestic Market 国内市场



International Market

国际市场



世界的红星
The world Hongxing



顾客就是上帝
顾客就是企业效益的创造者，
红星集团以超值的服务，
赢得了用户广泛的赞誉。
说到必须做到，
在全球任何地方，
我们对顾客的承诺是永恒不变的。

Customer is god
Customer is the creator for enterprise's benefits,
HongXing Group has won many words and
praises from the customers.
To be true to his word at anywhere of the world.
We will never change our promises to the customers.