

Project Case of Zenith Machinery

样板户工程案例

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品质与文明之光 闪耀世界

我们要做诚信博爱的使者，如切如磋，打造品质，如琢如磨，铸就辉煌，
与世界和谐共进，让文明之光永远闪耀。

公司简介 INTRODUCTION

上海西芝矿山工程机械有限公司是一家集先进科技与研发于一体的公司。我们始终专注于工业破碎、磨粉设备以及其他相关辅助设备的研究、开发与生产应用。我们的产品已远销东南亚、东欧、南美、中东以及非洲等120多个国家和地区，在未来的发展中，我们将开拓更广阔的海外市场。

我们始终以“追求西芝模式的高科技与高质量”为企业经营管理的坚实理念。通过不断地引进世界领先水平的破碎磨粉技术、先进的管理经营理念和良好的质量控制体系，以及我们的创新与努力，使得我们的企业在广大客户群中建立了良好的口碑。

SHANGHAI ZENITH MINING AND CONSTRUCTION MACHINERY CO., LTD. is a hi-tech, engineering group. We are specialized in the research, development, and production of industrial crushing, powder grinding, mineral processing equipments and other related devices. Our products have been sold to 120 countries and areas of Southeast Asia, East Europe, South America, the Middle East and Africa etc, and more foreign markets will be promoted in future.

We hold "Pursuing the Zenith Technology and Quality" as our management concept all the time. Relying on absorbing world leading crushing and powder processing technology, advanced management and quality control system, as well as our full efforts, ZENITH has earned high reputation among our customers.



Crush Rocks, Build Dreams!

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河北省唐山天泰矿业300万t/a铁矿石破碎项目

Tiantai mining company in Tangshan of Hebei province ,3 million TPA iron ore crushing project

该项目是由唐山天泰矿业投资建设的新建项目，项目规模300万t/a,该生产线主机设备颚式破碎机PE1200×1500、西蒙斯圆锥破CSB400（1台）、CSD400(2台)，为我公司生产。成品粒度：-18mm。

It is a new project invested by Tangshan Tiantai mining company . The capacity is 3 million TPA. The main equipment is produced by our company , including PE1200×1500 ,one CSB400 and two CSD400. The final product size is -18mm.

客户情况：河北唐山天泰矿业

生产线情况：PE1200×1500+CSB400（1台）+CSD400（2台）

Client: Tiantai mining company in Tangshan of Hebei province

Production line: PE1200×1500+CSB400(1 set)+CSD400(2 sets)



河北承德大唐矿业300万t/a新建铁矿石破碎项目

Datang mining company in Chengde of Hebei province, 3 million TPA iron ore crushing project

该项目由承德大唐矿业投资新建项目，该项目的主机设备由我公司提供，包括一台颚式破碎机PE1200×1500，西蒙斯圆锥破CSB400（1台）、CSD400(2台)。成品粒度为：-18mm。

It is a new project invested by Chengde Datang mining company . The main equipment is produced by our company , including PE1200×1500 ,one CSB400 and two CSD400. The final product size is -18mm.

客户情况：河北承德大唐矿业

生产线情况：PE1200×1500+ CSB400（1台）+CSD400（2台）

Client: Datang mining company in Chengde of Hebei province

Production line: PE1200×1500+CSB400(1 set)+CSD400(2 sets)



本溪钢铁集团HPT300细碎技改项目

Benxi iron and steel group HPT 300 project

南芬矿业属国家特大型主体矿山隶属于一本溪钢铁集团，年处理矿石1400万t，也是本钢铁矿石主要生产基地之一，该项目为本钢重点技改项目，在铁矿石细碎阶段，将原老式弹簧圆锥破PYD1650更换为我公司多缸液压圆锥破HPT300，细碎出料粒度达到-12mm以下，产量145 t/h，细碎产量得到了明显提升，细粒级粒度含量大大超过预期。

Nanfeng mining company is the national oversize main mine which belongs to Benxi iron and steel group. The capacity is 14 million TPA , which makes it the main iron ore production base of Benxi group. This project is key technical upgrading project for Benxi group. As for the iron ore fine crushing stage , the group replaced the spring cone crusher PYD1650 with multi-cylinder hydraulic cone crusher HPT300 produced by our company. The final product size is below 12mm , and the capacity is 145t/h. The capacity of fine production is significantly improved and the fine particle content is far more than expected.

客户情况：辽宁本溪钢铁集团南芬矿业
生产线情况：HPT500（1台）、HPT300（4台）

Client: Nanfeng mining company of Benxi iron and steel group
Production line :HPT 500(1 set), HPT 300(4 sets)



内蒙古中兴矿业HPT300细碎技改项目

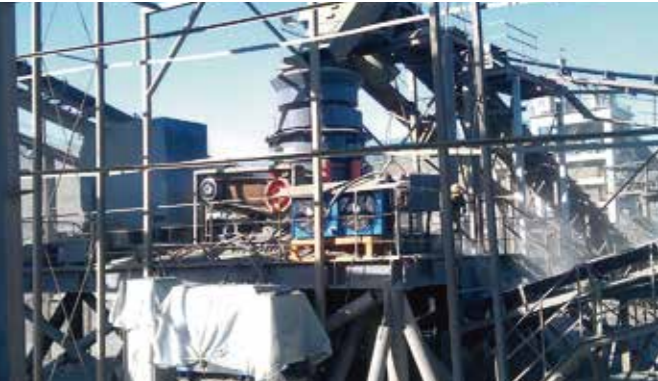
The project of Zhong Xing Mining Corporation

该项目属于中兴矿业技改项目，年处理矿石1300万t，品位5~6，属于国家特大型超贫磁铁矿，成品筛孔3.5×4.8mm，原破碎工艺中细碎采用的是直径1600mm的重型锤破，锤头更换频繁，耗时耗力，易损件成本较高达到了2.2元/t，细碎更换为我公司HPT300后，易损件成本降低至0.4元/t，且自动化程度较高，经济效益得到了明显的提升。

The project is technological upgrading project of Zhong Xing Mining Corporation with a capacity of 13 , 000 , 000 t / year. The grade of ore is 5 to 6 and it is national ultra-low-grade magnetite.Sieve pore of product is 3.5×4.8mm and heavy hammer crusher which has a 1600mm diameter is used in fine crushing. Due to frequent replacement of hammer head ,cost of quick-wear parts is up to 2.2rmb/t. Because of the replace of hammer crusher with HPT300, cost of quick-wear parts is 0.4rmb/t .Now the project is highly automated and has good economic returns.

客户情况：内蒙古中兴矿业
生产线情况：HPT300

Client: Zhong Xing Mining Corporation
Production line:HPT300



江苏省南京明洲码头铁矿石细碎项目

The project of Iron ore fine crushing in Nanjing, Jiangsu province Mingzhou Dock

该项目为位于江苏省南京市明洲码头，物料为国外进口铁矿石：澳矿、伊朗矿、土耳其矿等，根据矿石的特点和作业空间，明洲码头选用了我公司的HPT300多缸液压圆锥破碎机，成品粒度-8mm，真正的为客户提供高效率、低成本的项目运营硬件设施。

The project is located in Nanjing, Jiangsu province Mingzhou Dock and the material of it is from abroad like Australia , Iran and Turkey. According to the ore and work space, the HPT300 of our company is chosen to be used in the project. The finished product granularity is 0 to 8mm.Our company provide our customer with high-efficiency and low-cost appliance.

客户情况：江苏省南京明洲码头

生产线情况：HPT300

Client: Nanjing, Jiangsu province Mingzhou Dock

Production line: HPT300



江苏连云港创立工程移动破碎站铁矿石破碎项目

The project of Jiangsu Lianyungang Chuangli Engineering Company

移动破碎站的设计理念是消除破碎场地、环境、繁杂基础配置及繁杂物流带给客户破碎作业的障碍，真正为客户提供高效、低成本的项目运营的硬件设施。连云港创立工程公司购置了我公司的一台移动破碎站，型号：KH300-2，成品粒度达到-8mm。目前设备运转良好，矿石成品粒度质量优秀，深得客户好评。

Mobile crusher is designed to reduce the trouble of space ,environment ,and logistics and provide our customer with high-efficiency and low-cost appliance. Jiangsu Lianyungang Chuangli Engineering Company purchase a mobile crusher from our company. The model of the appliance is KH300-2 and the product of it is 0 to 8mm.The appliance works well and the product granularity is good ,which our customer appreciate.

客户情况：江苏连云港创立工程

生产线情况：KH300-2

Client: Jiangsu Lianyungang Chuangli Engineering Company

Production line: KH300-2



新疆哈密冠弛矿业超贫磁铁矿破碎项目

XINJIANG HAMI GUANGCHI MINING - Ultralow-grade magnetite crushing project

该项目位于新疆哈密，铁矿石品位7~8%，原有四条同样生产线PE750×1060+PE250×1200(4台)+PYD1750，成品粒度-14mm，2014年铁矿形势下滑，为提高经济效益，降低入磨粒度，公司对四台细碎设备实施技改，比较多种方案后，购置HPT300四台，代替弹簧圆锥破，成品粒度降至-8mm，大大提高了工作效益。

This project is located in Xinjiang Hami, the iron ore grade is 7~8%.The original four same product line: PE750×1060+ PE250×1200 (4 sets) +PYD1750, the particle size is -14mm. With the decline of iron ore form in 2014, the company carried out technical renovation after comparing various schemes to improve the economic benefit and reduce the grinding particle size. They purchased 4 sets HPT300, to replace the spring cone crusher. Finally, the particle size reduced to 8mm, and the work efficiency is improved greatly.

客户情况：新疆哈密冠弛矿业
生产线情况：HPT300(4台)

Client: Guanchi mining company in Xinjiang Hami
Production line: HPT300(4 sets)



天津滨海港湾集团—墨西哥铁矿破碎项目

TIANJIN BINHAI HABOR PORT GROU P CO., LTD,---Iron ore crushing project in Mexico

移动式破碎站灵活方便，机动性强，可节省大量基建及迁址费用；能够对物料进行现场破碎，并可随原料开采面的推进而移动，从而大量降低了物料的运输费用。天津滨海港湾集团投资的墨西哥铁矿项目现场有8个采矿区，较为分散，投资固定生产线，运输成本高昂，在多方考察之后，购置了我公司16台，型号为KE760-1（8台）、KH300-2D（8台）的轮胎式动破碎站，设备目前运转良好。

SBM mobile crushers feature with great flexibility, strong maneuverability which can help customer to reduce the costs on huge civil works and relocation works. And the mobile crushers can process the materials at site; also can be moved according to the mining face directions. Therefore it can help customer to save big amount of the materials transportation fees. TIANJIN BINHAI HABOR PORT GROU P CO., LTD invests the iron ore projects which have 8 mining areas locate in Mexico. The mining sites distribute on different locations. Here if the customer think of the stationary crushing production line, there will create higher costs on transportation works. After deeply investigation, the customer chooses to purchase 16 sets of mobile crushers from us. The equipment models are KE760-1（8sets）and KH300-2D（8sets）. All the mobile crushing equipment working with excellent performance in customer’s working site.

客户情况：天津滨海港湾集团
生产线情况：KE760-1（8台）、KH300-2D（8台）

Client: TIANJIN BINHAI HABOR PORT GROU P CO., LTD
Production line:KE760-1(8sets)and KH300-2D(8sets)



江西南昌海鸥渣业

Jiangxi Nanchang Gull Slag Industry

随着钢产量的迅速增长，钢铁企业产生的主要固体废弃物—钢铁渣的总量也在急剧增加。对钢铁渣的回收利用已成为冶炼行业节能降耗的方法之一，南昌海鸥渣业（隶属南昌钢铁集团）在购置我公司两台HPC220,HPF220对钢渣进行破碎，破碎成品粒度到-12mm，对钢渣进一步的回收利用起到了重要作用。

As the fast increase of the steel production volume, the volume of steel slag which is one of the main solid wastes of steel industries is also increasing rapidly. Recycling of steel slag has become one of the energy saving methods in smelting industry. Jiangxi Nanchang Gull Slag Industry(which subordinates to Nanchang Iron and Steel Group) purchased two HPC220,HPF220 from our company to smash steel slag. The grain size of smashed slag is down to 12mm, which is of great importance to the improvement of steel slag recycling.

客户情况：江西南昌海鸥渣业

生产线情况：HPC220+HPF220

Client: Jiangxi Nanchang Gull Slag Industry

Production line: HPC220+HPF220



四川省木里容大矿业80万t/a金矿扩大生产规模项目

Production expansion project (Rongda mining Ltd. 800,000 TPA gold plant in Muli, Sichuan Province, China)

该金矿原破碎生产线采用C100+GP11F二段一闭路破碎工艺，成品-18mm；根据生产要求，扩大规模，同时降低入磨粒度，采用三段一闭路工艺，选用我公司的单缸液压圆锥破HST160和多缸液压圆锥破HPT300，组成破碎生产线C100+HST160（S2）+GP11F、HPT300，使用的三段一闭路工艺，出料-12 mm，实现了入磨前合格产品的大量处理能力和理想的产品粒度，经过长时间的生产运营，生产能力大大超出原设计预期。

The original process adopted C100+GP11F form a two-stages crushing with one closed circuit, which produces -18mm gold ore. According to their new requirement, which is three-stages in one closed circuit to reduce the feeding size of ball mill, we supplied HST160 (single cylinder hydraulic cone crusher) and HPT300(multi-cylinders hydraulic cone crusher) to form a C100+HST160(S2) +GP11F, HPT300 circuit. In this way, the feeding size reduction (12mm) and expected capacity achieved by producing -12mm gold ore. After long time operation, the plant achieved larger capacity which beyond the original design.

客户情况：四川省木里容大矿业

生产线情况：PEW860；HST160（S2）+HPT300

Client: Rongda mining Ltd. in Muli,Sichuan Province,China

Production line: PEW860;HST160(S2)+HPT300



中国地质矿业总公司中东120万吨/a金矿项目

120million tpa gold project in the middle east of CGM

中国地矿是原地质矿产部、国土资源部先后直属的国有独资企业，业务覆盖亚洲、非洲、大洋洲、南北美洲和国内重点地区。该项目位于沙特，沙特气候炎热少雨，设备工作条件恶劣，该金矿生产线破碎设备选用我公司颚式破碎机PE900×1200大型颚式破碎机（1台），大型多缸液压圆锥破HPT500（1台），细碎多缸液压圆锥破HPT300（3台），设备运转情况良好，产量最大达到了360t/h,成品料粒度达到了-12mm。

The CGM is a entirely state-owned enterprise which is directly subordinate to the original Ministry of Geological and Mineral Resources and Ministry of Land and Resources. It’s business covers Asia, Africa, Oceania,North and South America and other key regions in China. This project is located in Saudi where the wheather is hot with little rain and bad working situations. This gold crushing part adopts our big scale Jaw crusher PE900×1200(one set), large-scale multiple cylinder hydraulic cone crusher HPT500(one set), fine crushing multiple cylinder hydraulic cone crusher HPT300(three sets). All equipments are running well with finals size reaching minus 12mm and capacity is up to 360 tons per hour.

客户情况：中国地质矿业总公司

Client: The CGM

生产线情况：PE900×1200+HPT500（1台）+HPT300（3台）

Production line :PE900×1200 +HPT500(1 set)+HPT300 (3 sets)



内蒙古广隆矿业超贫磁铁矿细碎技改项目

Technical improvement project of ultralow-grade magnetite fine crushing in Inner Mongolia of Guanglong Mining

该项目的磁铁矿的品位为5~6%，属于超贫磁铁矿，冲击破“石打石”、“石打铁”原理的应用，能够降低易损件磨损，提高破碎效果。项目矿石成品粒度可达到-5mm，产量可以达到190t/h，该公司选用的设备型号是VSI5X1145（2台）。

Iron Grade of this raw material is 5-6%, which belongs to ultra low magnetite. With the applying of principle of stone crushing stone and stone crushing iron, our impact crusher can reduce the wearing of quick-wear parts and improve crushing efficiency. The finals size can reach minus 5mm, capacity is up to 190t/h. The mdl they adopts is VSI5X1145(two sets).

客户情况：内蒙古广隆矿业

生产线情况：VSI5X1145（2台）

Client: Guanglong Mining in Inner Mongolia

Production line:VSI5X1145(2sets)



广西有色金属集团锰矿技改项目

Guangxi Non-ferrous Metals Group Manganese Ore Technological Upgrading Project

广西有色金属集团有限公司是广西大型国有独资企业，该项目为公司技改项目，原细碎设备是PYD1750二台，现替换为我公司细碎设备HPC220二台。成品粒度达到-12mm。

Guangxi Non-ferrous Metals Group Co.,Ltd.is a large state-owned enterprise in guangxi, and the project is a technological upgrading project. The original comminution equipment was two sets PYD1750, now is upgrading to HPC220 provided by our company. The final particle size can be -12mm.

客户情况：广西有色金属集团

生产线情况：HPC220

Client: Guangxi Non-ferrous Metals Group

Production line: HPC220



河北省石家庄恒锌建材水泥矿山尾矿制砂

Mine tailings making sand in Shijiazhuang Henxin Construction and Cement company, Hebei Province

金属和非金属选矿厂在采矿和加工的过程中，产生了大量的干抛尾矿。大量尾矿的堆积，不仅占用了大量土地，同时也造成了环境的污染和资源的浪费，我公司生产的VSI5X系列制砂机已经成熟应用于尾矿制砂行业，该项目是水泥矿山的尾矿机制砂项目，原0-15mm作为废矿处理，后购置我公司一套VU-120骨料优化系统，生产出了精品建筑机制砂，细度模数2.1-3.2可调，供应干粉砂浆站、商砼等，实现了变废为宝，每年增值上千万余元。

Metal and non-metal beneficiation plants generates a lot of dry tailings in mining and processing. The accumulation of a large amount of tailings not only takes up large land, but also causes environmental pollution and resource waste. The VSI5X series sand maker of our company has maturely applied in tailings sand making industry. The project is a tailings making sand project in cement and mine. Former the 0-15mm was considered as abandoned mine, later they purchased a VU-120 aggregate optimization system from our company, and produced high-quality construction sand. The fineness modulus is 2.1-2.3 and can be adjusted. The products can be supplied to dry-mixed mortar station、commercial cement etc. Thus, the waste is turned into a treasure, and they make more than tens of millions of yuan every year.

客户情况：河北省石家庄恒锌建材水泥

生产线情况：VU-120

Client: Shijiazhuang Henxin Construction and Cement company, Hebei Province

Production line: VU-120



印度JBL集团

India JBL Group

JBL集团是印度第二大钢铁集团，在新建磁铁矿项目中，选用我公司六台CSB400(2台)，CSD400（4台），出料成品粒度-16mm，目前设备运行稳定。

India JBL Group is india's second largest iron and steel group. They choose two set CSB400 and four set CSD400 from our company in their new magnetite project. The final product size is -16mm, and now the equipment is in stable operation.

客户情况：印度JBL集团
生产线情况：CSB400+CSD400（2台），CSB400+CSD400（2台）

Client: India JBL Group
Production line :CSB400+CSD400(2 sets), CSB400+CSD400(2 sets)



美国曼哈顿投资集团沙特金矿项目

United States Manhattan Investment Group Saudi Gold Project

美国曼哈顿资本集团，是总部位于美国纽约的一家从事投资银行、风险投资、直接投资、技术产权交易以及品牌战略咨询的国际性公司。沙特的金矿项目投资回报率较高，经过项目考察之后，选择了我公司的HPT500（1台）、HPT500（2台），成品出料-12mm，设备的高性能和自动化为客户节约了成本带来了巨大的经济价值。

United States Manhattan Capital Group is headquartered in United States New York, an international company engaged in investment banking, venture capital, investment, technological property rights exchange, and brand strategy consulting.The Saudi gold project return on investment is high.After project review,they choose one set HPT500 and two sets HPT500, and the final size is -12mm.High performance and automation of the equipment can save costs and bring great economic value for the customer.

客户情况：美国曼哈顿投资集团
生产线情况：HPT500（1台），HPT500（2台）

Client: United States Manhattan Investment Group
Production line:HPT500(1 set), HPT500(2 sets)



朝鲜锌工业集团是亚洲最大的铅锌矿生产企业，在朝鲜工业中处于领军地位，其代表团在中国深入考察之后，购进我公司单缸液压圆锥破HST315(S2腔)一台、HST315（H2腔）二台，分别代替原来的弹簧圆锥破PYB2200、PYD2200二台，成品粒度由20mm降到12mm，目前运行平稳。

North Korea Zinc Industry Group is Asia's largest lead-zinc mine production enterprise, playing a leading role in North Korea industry. After in-depth investigation in China, their delegation purchased three sets single hydraulic cone crusher: one set HST315 (cavity S2) and two sets HST315 (cavity H2), which respectively replaced the original spring cone crusher: PYB2200 and PYD2200, and the final size is down to 12mm from 20mm. The equipment is in stable operation now.

物料：铅锌矿

Material: lead-zinc mine

设备：HST315（S2腔）、HST315（H2腔）二台

Equipment: HST315 (cavity S2)、HST315 (cavity H2) two sets



装备能力 EQUIPPED CAPABILITY



配件

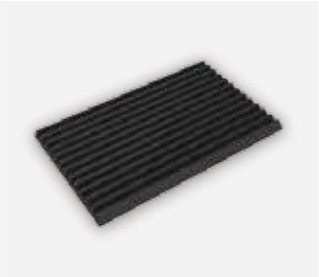
SPARE PART



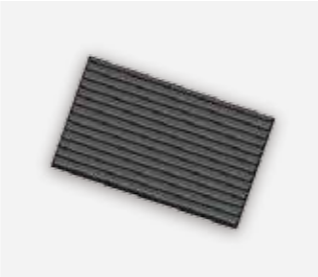
破碎壁
Mantle



轧臼壁
Concave



动颚板
Movable Jaw Liner Plate



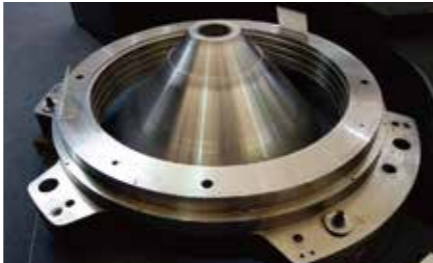
定颚板
Lining Plate Of Fixed Jaw



轧臼壁破碎壁
Concave Mantle



螺旋伞齿轮
Gear



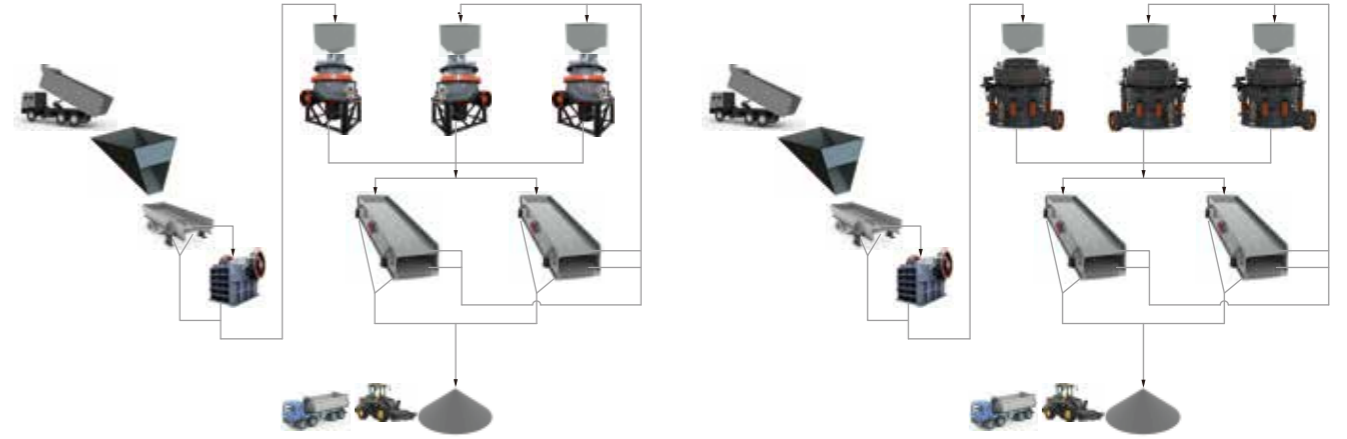
动锥
Moving Cone

工艺流程

FLOW CHART

使用颚式破碎机、圆锥破和圆振筛作为选矿生产线的破碎筛分段，球磨机实现磨粉任务，然后通过各种选别系统甄选，这是最基本的选矿流程。我公司产品可实现不同产量的需要，连续运转，同时我们还可以为客户提供最优破碎磨粉工艺，以实现多碎少磨的要求，提高效率。

In the basic mineral processing line,jaw crushers,cone crushers and vibrating screens are used for crushing,screening and ball mills are used for grinding and the products will be concentrated through different classifying system.Our products can meet different needs for the capacity and achieve continuous running.We could also provide our clients with the best crushing and grinding craft to achieve more crushing and less grinding,thus improving the efficiency.



上海西芝矿山工程机械有限公司

Shanghai Zenith Mining and Construction Machinery Co., Ltd.

上海临港重装区28万平米世界级高端制造基地
The 280,000m² world-class high level manufacture base of Shanghai LinGang

新的梦想 新的里程 新的启航
New dream, new journey, new sailing



江苏启东 140,000m² 万平米生产基地
140,000m² manufacture base of Qidong, Jiangsu Province