



烟台金鹏矿业机械有限公司

YANTAI JINPENG MINING MACHINERY CO., LTD

专业的选矿EPC工程总包服务商
PROFESSIONAL EPC CONTRACTOR OF MINERAL
PROCESSING PLANT

烟台金鹏矿业机械有限公司
YANTAI JINPENG MINING MACHINERY CO.,LTD

山东省烟台市开发区福州路11号
No. 11 Fuzhou Road, Development Zone, Yantai City, Shandong Province

400-6969-268 (0535)3975280 +86-13806388750

jpkj2006@ytjpkj.com +86-535-3975287 <http://www.ytjpkj.com>



扫一扫
关注公众号
Scan, Follow
WeChat Official Account



扫一扫
关注中文网址
Scan, Follow
Chinese website



扫一扫
关注英文网址
Scan, Follow
English website

JPKJ-2026.09

01

客户为天 敬天爱人

关于我们

ABOUT US

发展历程

DEVELOPMENT HISTORY

荣誉资质

HONORS & CERTIFICATIONS

技术实力

TECHNICAL STRENGTH

文化立企

CULTURE-DRIVEN ENTERPRISE

我们的团队

TEAM BUILDING

全球视野

GLOBAL VISION

02

深耕矿业 精益求精

选冶研究院

BENEFICIATION-METALLURGY RESEARCH INSTITUTE

冶金矿山设计院

METALLURGICAL MINE DESIGN INSTITUTE

自动化研究院

AUTOMATION RESEARCH INSTITUTE

3D建模/VR互动

3D MODELING/VR INTERACTION

机械设备加工厂

MACHINERY AND EQUIPMENT MANUFACTURING PLANT

产品设备

PRODUCTS AND EQUIPMENT

设备发货

EQUIPMENT SHIPMENT

设备使用现场

EQUIPMENT ON SITE

安装调试公司

INSTALLATION AND COMMISSIONING COMPANY

03

拓新矿业 智创未来

专业的选矿EPC总包服务商

PROFESSIONAL EPC CONTRACTOR OF MINERAL PROCESSING PLANT

04

创新驱动 进无止境

工程实例

ENGINEERING EXAMPLE

客户为天 敬天爱人

关于我们
ABOUT US

发展历程
DEVELOPMENT HISTORY

荣誉资质
HONORS & CERTIFICATIONS

技术实力
TECHNICAL STRENGTH

文化立企
CULTURE-DRIVEN ENTERPRISE

团队建设
TEAM BUILDING

全球视野
GLOBAL VISION



ABOUT US

关于我们

2000+

在全球已建造完成2000多个工程项目
It has finished constructing more than 1000 engineering projects around the world

80+

业务足迹遍及世界五大洲八十多个国家和地区
The business spans across more than eighty countries and regions across five continents.

1000+

1000多名员工，25万+平方米现代化智能产业园
Over 700 employees, 250,000+m² modern intelligent industrial park.



选矿试验研究
BENEFICIATION TEST&RESEARCH



矿山设计
MINE DESIGN



设备制造
EQUIPMENT MANUFACTURING



安装调试
INSTALLATION & COMMISSIONING



人员培训
PERSONNEL TRAINING

烟台金鹏矿业机械有限公司坐落于烟台开发区金鹏工业园内，占地面积25万平米，规划建筑面积15万平米，是国家高新技术企业，国家级专精特新重点“小巨人”企业。公司现有职工1000余名，其中工程技术人员300余名。

Yantai JINPENG Mining Machinery CO.,LTD, located in Jinpeng industrial park in Yantai Development Zone, with a floor space of 250,000m² and planned building area of 150,000 m², is a national high-tech enterprise and a state-level SRDI Key "little giant" enterprise. Now it has more than 1000 staff, including more than 300 engineering and technical personnel.

集团下设选冶研究院、冶金矿山设计院、机械设备加工厂、自动化研究院和安装调试公司。凭借着雄厚的技术力量和先进的加工设备，金鹏可为各类规模的金矿、银矿、铜矿、铅锌矿、铁矿、锰矿、铬矿、萤石矿、锂矿、石墨矿、硅砂矿、钾钠长石矿等矿山提供选矿试验研究、矿山设计、设备制造、安装调试、人员培训等EPC总包服务。中国黄金集团、山东黄金集团、紫金矿业、招金集团、恒邦股份等大型上市公司，均是金鹏矿机的合作伙伴。公司在立足中国的同时，积极致力于国际业务的开拓，EPC工程已遍布世界八十多个国家和地区，为中国和世界矿业经济发展做出了积极贡献。

Jinpeng Group founded several subsidiaries, including Beneficiation-metallurgy Research Institute, Metallurgical Mine Design Institute, Machinery and Equipment Manufacturing Plant, Automation Research Institute, Installation and Commissioning Company. Depending on the advanced processing equipment and profound technical capacity, the group can provide mines with various scales in gold, silver, copper, lead-zinc, iron, Manganese, chromium, fluorite, lithium, graphite, silica placer, potassium albite and so on with EPC service of mineral processing experiments, engineering design, equipment manufacturing, installation and commissioning, personnel training, etc. A number of large listed companies, such as China National Gold Group, Shandong Gold Group, Zijin Mining, Zhaojin Group and Humon Smelting are all cooperative partners of Jinpeng Mining Machinery CO.,LTD. While based in China, the company is actively committed to the development of international business. Its EPC projects have spread over more than 80 countries and regions in the world, and it have made positive contributions to the development of China and the world mining economy.



DEVELOPMENT HISTORY

发展历程

FUTURE ►

2006

金鹏成立，高起点，高标准，搭起一个矿业精英创业平台。

2007

立足中国，走向世界。与土耳其、俄罗斯等客户建立了长期的友好合作关系，并荣获山东省和烟台市消费者满意单位光荣称号。

2008

为汶川地震募捐献爱心，满满人情味的企业，再一次荣获当年山东省和烟台市消费者满意单位光荣称号。

2009

公司由福山清洋工业园顺利搬迁到开发区金鹏工业园。同时投资200万元建成了国内一流的选矿研究院。公司已具备了为10000t/d的矿山提供一条龙总包服务的能力；全面推行质量管理，有效地提高了产品质量。

2010

金鹏矿机办公大楼开工建设，公司发展迈上新台阶。形成了“军队+学校+家庭”的企业文化，建立了全员早会制度。

2011

公司办公大楼竣工乔迁，公司产品销往秘鲁、越南、苏丹等20多个国家和地区，国际市场逐步扩大。

2012

众志成城，黄金事业遍布世界各地，为苏丹建设了该国第一座现代化炭浆厂，并一次性试车成功。同时澳大利亚石英砂客户、亚美尼亚客户前来金鹏洽谈合作。公司的出口业务再上新台阶。

2013

烟台东方冶金设计院正式乔迁新的办公大楼，先后承揽了二十多个国家的设计项目。

2014

在互联网思维的影响下，大胆走出去，请进来，与洲际传媒联合举办矿业盛会，孙传尧院士及禅宗大师吴言生教授莅临公司参观指导。金鹏工业园二期工程开工建设。

2015

在新型选矿药剂的研发上有了新的突破；总包服务模式已初现优势，先后在全球三十多个国家建设不同的矿山项目。

2016

全年共获得12项国家专利；被评为“中国黄金行业优秀服务商”；公司承建的津巴布韦国家首座炭浆厂荣获“津巴布韦国家级优质工程”。

2017

公司通过了质量、环境、职业健康3个体系的认证或再认证。同时通过了国家“高新技术企业”认证。于建环董事长被博鳌儒商论坛评为“儒商标杆人物”。金鹏工业园二期1号厂房开工建设。

2018

金鹏集团二期厂房胜利竣工。EPC总包项目遍布世界四十多个国家和地区，再次蝉联“中国黄金行业优秀服务商”。

2019

海外业务再上新台阶，出口国家达五十多个；荣获市、省瞪羚企业荣誉；被评为烟台市市级企业技术中心；获《中国品质优秀企业》荣誉；获“2019年最具人气选矿设备厂商”第一名；与东北大学达成产学研战略合作。

2020

面对突如其来的疫情，全体金鹏家人团结一致、共克时艰，员工自愿捐款10万元，助力开发区疫情防控。同年，公司6#车间顺利竣工，获评“中国黄金行业最佳服务商”。

2021

金鹏矿冶研究测试中心成功通过了中国合格评定国家认可委员会（CNAS）的审核，并获得实验室认可证书。标志着金鹏矿冶研究测试中心的质量管理体系完全符合国际标准，技术能力达到了国际化先进水平。金鹏集团新办公大楼开工建设。

2022

荣获国家级专精特新“小巨人”殊荣。公司发展再迈新台阶，金鹏智能装备1号厂房顺利奠基，全面打造国际先进的智能矿山装备研发、生产基地。

2023

喜迁新办公大楼，是企业发展的优秀延续和全新升级。与东北大学达成战略合作，设立金鹏教育基金，助力国家高等教育事业。

2024

金鹏集团大型矿山装备产业园项目厂房工程开工建设，该项目建筑面积约40582平方米，东西长度260米，南北跨度150米，其中重型车间2跨，建筑高度约32米，内设200T行车、大型数控龙门移动镗铣床、数控双轴立铣车床、大型数控落地镗床、大型漆齿机、折弯机等各类大型自动化车床20余台套；轻型车间3跨，建筑高度约18.5米，内设大型数控激光板材切割机、激光型材切割机等各类设备100余台套。

2025

大型矿山装备产业园投入使用，该车间成为金鹏集团发展史上又一座崭新的里程碑，将进一步优化公司产品结构，促进产品向大型化、智能化、自动化产业方向升级，为世界矿业发展贡献金鹏力量！荣获国家级专精特新重点“小巨人”殊荣。

HONORS & CERTIFICATIONS

荣誉资质

20项
国家及省部级荣誉
National, Provincial
Ministerial Level Honors



100+项
专利
Patent



30+项
体系认证
System Certification

金鹏始终把创新作为企业发展的动力，二十余年来取得了卓越的成绩。公司高度重视标准化建设，已参与制定1项国家标准、1项行业标准及23项企业标准，并通过ISO9001、ISO14001、ISO45001、能源管理、ZMCC及欧盟CE等体系认证，拥有国家级矿山工程施工总承包、CNAS实验室认可、甲级咨询及国家级冶金矿山设计等资质。公司产品深受市场认可，2024年入选全省质量标杆典型经验名单。

Jinpeng has always regarded innovation as the driving force behind its development, achieving outstanding success over the past two decades. The company places strong emphasis on standardization, having participated in the formulation of one national standard, one industry standard, and 23 enterprise standards. It has obtained certifications including ISO9001, ISO14001, ISO45001, Energy Management, ZMCC, and EU CE. In addition, it holds qualifications such as national-level general contracting for mine construction, CNAS laboratory accreditation, Class-A consulting, and national-level metallurgical mine design. Its products are well recognized in the market, and in 2024, the company was named to the provincial list of typical quality benchmark experiences.



TECHNICAL EXPERTISE

技术实力

现代矿山企业的效益得益于领先的技术，而领先的技术体现在合理的工艺流程和高效节能的设备。金鹏深知技术对于企业发展的重要性，因此金鹏由通过CNAS国际认证的选矿研究院和具有冶金行业国家级资质的矿山设计院领衔，可为 60 余种矿物提供精准的试验，并设计合理选矿工艺及设备。

金鹏设计院具有甲级咨询资质和国家级冶金矿山设计资质，拥有20个专业、近百位专业设计人才，利用 Revit和SolidWorks三维设计软件进行常规选矿厂设计、3D选矿厂设计、模块化选矿厂设计、组合式钢结构选矿厂生产线设计，不仅可按中国设计标准设计，还可按澳大利亚 JORC标准、加拿大 NI43-101标准等国际标准设计。院长许宝华先生更是澳大拉西亚矿业与冶金学会院士(Fellow, AusIMM)，以国际化的视野、严格的标准、优质的定制化服务服务于每一座矿山。

The performance of modern mining enterprises benefits from leading technologies, which are reflected in rational process flows and high-efficiency, energy-saving equipment. Jinpeng fully recognizes the importance of technology for enterprise development. Therefore, it is spearheaded by a Mineral Processing Research Institute with CNAS international certification and a Mining Design Institute possessing national-level qualifications in the metallurgical industry. These institutions provide precise test for over 60 types of minerals and design optimal mineral processing flowsheets and equipment.

Jinpeng Design Institute holds Class A Consulting Qualification and National Metallurgical Mining Design Qualification. With 20 disciplines and nearly 100 professional design experts, it utilizes 3D design software such as Revit and SolidWorks to conduct conventional mineral processing plant design, 3D plant design, modular plant design, and combined steel structure beneficiation production line design. The institute not only adheres to Chinese design standards but also complies with international standards such as Australia's JORC Code and Canada's NI 43-101 code. Mr. Xu Baohua, President of the institute, is a Fellow of the Australasian Institute of Mining and Metallurgy (Fellow, AusIMM). He brings an international perspective, stringent standards, and superior customized services to every mining project.



CULTURE-DRIVEN ENTERPRISE

文化立企

于建环 董事长

高级工程师
烟台开发区人大代表
博鳌儒商标杆人物

Senior Engineer
Delegate to the People's Congress
of Yantai Development Zone
Boao Confucian Businessman Benchmark



毕业于东北大学黄金学院采矿系，历任山东黄金集团烟台设计研究院副院长、总经理，现任烟台金鹏矿业机械有限公司董事长。金鹏集团自2006年成立至今先后研发了上百项专利产品及技术，并在业内率先推出选矿试验研究、工程设计、设备制造、安装调试、人员培训EPC总包服务模式，精准的服务使国内外上百座大中型矿山收益，深受客户好评。近年来，于建环董事长带领团队一直奋斗在一带一路上的多个国家，为一带一路国家建设数百座金矿，把先进的技术和设备出口的同时，也把中国的国学文化带到世界各国。金鹏集团不忘初心，牢记使命，为世界矿业振兴而努力奋斗。EPC总包服务过上百座利税过亿元的矿山，为中国的经济和世界的经济做出了积极的贡献。

“金鹏是中国的，更是世界的，我们要为我们国家和世界新能源建设、新质生产力发展做更大贡献”金鹏公司董事长于建环说。

Graduated from the Mining Department of Gold College of Northeastern University, he has served as vice president and general manager of Yantai Design and Research Institute of Shandong Gold Group, and is now the chairman of Yantai Jinpeng Mining Machinery Co., LTD. Since its establishment in 2006, Jinpeng Group has developed hundreds of patented products and technologies, and has taken the lead in the industry to introduce the EPC total contract service model of mineral processing test research, engineering design, equipment manufacturing, installation and commissioning, and personnel training. The accurate service has made hundreds of large and medium-sized mines at home and abroad benefit from the company, and has been well received by customers. In recent years, Chairman Yu Jianhuan led the team has been struggling in a number of countries along the Belt and Road, building hundreds of gold mines for the Belt and Road countries, exporting advanced technology and equipment, but also bringing China's sinology culture to the world. Jinpeng Group does not forget the original intention, keep in mind the mission, and work hard for the revitalization of the world mining industry. EPC has served hundreds of mines with profits and taxes of more than 100 million yuan, making great contributions to China's economy and the world's economy.

"JINPENG is China's, but also the world's, we must make greater contributions to our country and the world's new energy construction, new quality productivity development," said Yu Jianhuan, chairman of JINPENG Company.

金鹏人身上都有一种韧劲，这来源于领导人于建环女士的个人领导力，更来源于这个企业独特的魅力。在夯实矿业一条龙服务的基础上，金鹏打造了一支“召之即来，来之能战，战之必胜”的钢铁之师。金鹏集团的快速发展，离不开这个企业的“独特”企业文化——“军队+学校+家庭”。

JINPENG people have a kind of tenacity, which comes from the personal leadership of the leader Ms. Yu Jianhuan, but also from the unique charm of this enterprise. On the basis of consolidating the one-stop mining service, Jinpeng has created a steel division that "comes at a moment's call, can fight, and will win". The rapid development of Jinpeng Group is inseparable from the "unique" corporate culture of this enterprise - "army + school + family".



培养高效、高标、高协、高创、高拓的团队提高行业竞争力。

Cultivating an efficient, high-standard, high-collaboration, high-innovation, and high-pioneer team to enhance industry competitiveness.



重视个人的全面发展和自我完善,实现个人、公司、社会的共同进步。

Cultivating an efficient, high-standard, high-collaboration, high-innovation, and high-pioneer team to enhance industry competitiveness.



以和谐友爱、团结忠诚为基石,强化团队凝聚力，打造蓬勃向上的工作氛围。

With harmony, love, unity and loyalty as the cornerstone strengthening team cohesion and creating a thriving and upward working atmosphere.



Corporate Culture

企业文化

军队+学校+家庭
Military+Family+School



Corporate value

企业价值观

创新 厚德 责任 感恩
Innovation, Virtue, Responsibility, Gratitude



Production Principle

生产方针

安全第一，质量至上
Safety First, Quality First



Management Principle

经营方针

客户为天，敬天爱人
Treat Customer As God,
Respect God And Love Person



Corporate Mission

企业使命

帮助矿业成长，富强我的祖国，
为世界矿业振兴而努力奋斗

Help Mining Grow, Make China Much More Prosperous And Stronger, And Strive For The Prosperity Of World Mining



Corporate Vision

企业愿景

引领行业标准，缔造顶尖品牌，
铸就全球专业的矿山行业EPC总包服务商

Leading Industry Standards, Creating Top Brands, And Forging A Global Professional Epc General Contracting Service Provider In The Mining Industry



TEAM BUILDING 团队建设

金鹏构建了专业化、国际化的技术团队。团队拥有1000余名员工，其中工程技术人员300余人，涵盖选矿试验、矿山设计、设备制造、自动化控制、安装调试等专业领域。公司建立了选冶研究院、冶金矿山设计院、机械设计院、自动化研究所和安装公司所五大技术团队，配备大型精密加工设备。团队持有数百项专利，具备为各类矿山提供EPC总包服务的能力，服务网络覆盖全球80多个国家和地区。

Jinpeng has established a specialized and international technical team. The team comprises over 1000 employees, including more than 300 engineering and technical staff specializing in mineral processing test, mine design, equipment manufacturing, automation control, installation and commissioning, and other related fields. The company has formed five major technical divisions: the Beneficiation & Metallurgical Research Institute, the Metallurgical Mining Design Institute, the Machinery Design Institute, the Automation Research Institute, and the Installation Company which are equipped with large-scale and precision processing equipment. The team holds hundreds of patents and is capable of providing EPC services for various types of mining projects.

300+

工程技术人员
Engineering Technical Staff

5

技术团队
Technical Team

5

生产工厂
Production Plant



全流程核心部件自主制造与质量闭环控制：保障设备长期稳定运行



无缝交付的全球项目“总承包”能力：您的矿山，我们“交钥匙”



从实验室到投产的精准还原能力：让实验数据变成您的利润

金鹏的足迹遍布全球五大洲 八十多个国家

JINPENG'S FOOTPRINT CAN BE FOUND IN OVER 80 COUNTRIES ACROSS FIVE CONTINENTS

11  运营中心
Ten Operation Center

80+  合作国家和地区
More Than 80 Cooperation Countries and Regions



DEEPLY ROOTED IN MINING COMMITTED TO EXCELLENCE 深耕矿业 精益求精

选冶研究院

BENEFICIATION-METALLURGY RESEARCH INSTITUTE

冶金矿山设计院

METALLURGICAL MINE DESIGN INSTITUTE

自动化研究院

AUTOMATION RESEARCH INSTITUTE

3D建模/VR互动

3D MODELING/VR INTERACTION

机械设备加工厂

MACHINERY AND EQUIPMENT MANUFACTURING PLANT

产品设备

PRODUCTS AND EQUIPMENT

设备发货

EQUIPMENT SHIPMENT

设备使用现场

EQUIPMENT ON SITE

安装调试公司

INSTALLATION AND COMMISSIONING COMPANY



3大科室18大功能间

THREE PRIMARY DEPARTMENTS AND EIGHTEEN SPECIALIZED LABORATORIES



选矿试验室

BENEFICIATION LABORATORY

磨矿、浮选、重选、磁选、氰化、细菌氧化、焙烧、压力氧化、
沸腾炉焙烧室、半工业试验线
Grinding, Flotation, Gravity Separation, Magnetic Separation, Cyanidation,
Bacterial Oxidation, Roasting, Pressure Oxidation, Fluidized Bed Roasting
Chamber, Pilot Test Line



岩矿鉴定室

ROCK-MINERAL DETERMINATION LABORATORY

赛默飞扫描电子显微镜、AMICS自动矿物分析系统、
莱卡偏光显微镜
Thermo Fisher Scanning Electron Microscope, AMICS Automated
Mineral Identification and Characterization System, Leica Polarizing
Microscope.



化验室

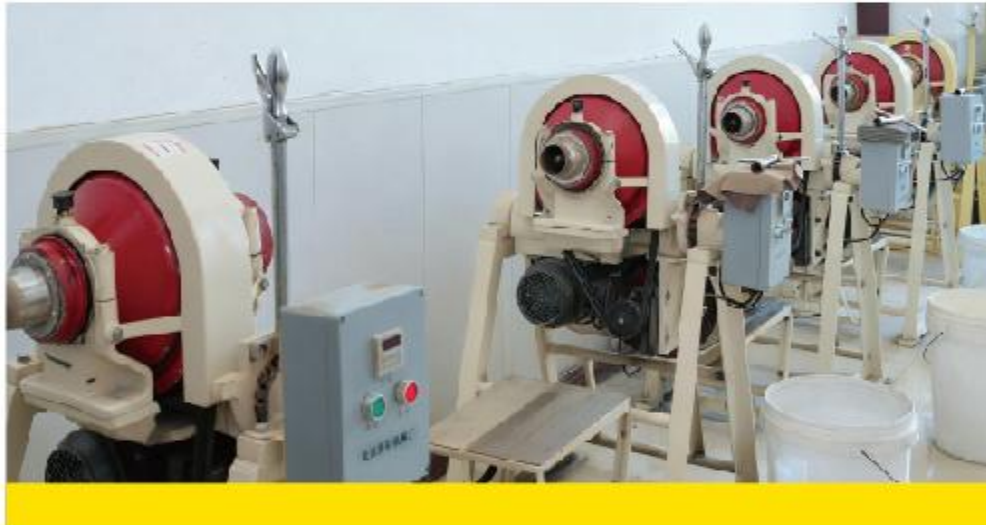
MINERAL ASSAY LABORATORY

ICP仪器室、红外硫碳分析室、化学分析室、火试金室、
天平室、高温室、样品室、熔样室
ICP Inductively Coupled Plasma Spectrometer, High Frequency
Infrared Carbon Sulfur Analyze, Chemical Analysis Laboratory,
Fire Assay Chamber, Balance Chamber, High-Temperature Chamber,
Sample Preparation Chamber, Fusion Chamber

试验总量
2000+

年均试验项目
150+

实验矿种
60+



磨矿室 Grinding Chamber



浮选实验室 Flotation Lab



火试金室 Fire Assay Chamber



磁选实验室
Magnetic Separation Lab



细菌氧化室
Bacterial Oxidation Chamber



重选实验室
Gravity Separation Lab



氰化实验室
Cyanide Leaching Lab



红外硫碳分析室
High Frequency Infrared Carbon
Sulfur Analyzer



ICP仪器室
ICP Inductively Coupled
Plasma Spectrometer

BENEFICIATION-METALLURGY RESEARCH INSTITUTE 选冶研究院

选冶研究院目前已开展试验研究的矿种有：金银矿、铜铅锌矿、钼矿、锑矿、钨锡矿、钴矿、镍矿、铁矿、钒矿、锰矿、铬铁矿、钽铌矿、钛铁矿、锂矿、石墨矿、萤石矿、磷矿、镁矿、锆矿、石英、重晶石、钾钠长石矿等60多个单一或多金属矿种。细菌氧化技术的试验研究和应用处于国内先进水平。在铜铅锌无毒药剂分离新技术研究和生产应用领域也有新的突破。在萤石重晶石分离、白钨萤石分离、石墨矿鳞片保护分离、锂矿选矿试验研究方面，均拥有多项专有技术。

The Mineral Processing Research Institute at present, there are more than 60 single or polymetallic ores such as gold and silver ore, copper lead-zinc ore, molybdenum ore, antimony ore, tungsten-tin ore, cobalt ore, nickel ore, iron ore, vanadium ore, manganese ore, chromite, tantalum niobite, ilmenite, lithium ore, graphite ore, fluorite, phosphorite, magnesium ore, zirconite, quartz, barite, potassium albite ore, etc. The experimental research and application of bacterial oxidation technology are at the advanced level in China. There are also new breakthroughs in the research and application of new technologies for the separation of copper, lead and zinc non-toxic agents. We have a number of proprietary technologies in fluorite & barite separation, white tungsten & fluorite separation, graphite flake protection separation, and lithium processing test research.



20[↑] 专业 MAJOR

设计院拥有地质、采矿、矿机、井建、选矿、冶炼、电力、自动化、建筑、结构、尾矿、给排水、暖通、动力、化工、总图、安全、环境保护、技术经济、概（预）算等20个专业。

The design institute encompasses 20 discipline, including geology, mining, mining machinery, shaft construction, beneficiation, smelting, electric power, automation, architecture, structural engineering, tailings treatment, water supply and drainage, heating and ventilation, power engineering, chemical engineering, general layout, safety engineering, environmental protection, technical economy, budget estimate.

金鹏集团冶金矿山设计院具有甲级咨询资质和国家级冶金矿山设计资质。设计院成立以来，先后完成了国内外数百座矿山采选工程的设计工作，深受国内外客户的好评。

设计院拥有二十个专业。各专业骨干技术人员大都具有20年以上的设计经验，主要从事贵金属、有色及黑色金属矿山设计及生产调试、达标达产工作。顺利完成了曾经是亚洲最大金矿—中矿金业（原招金集团岭南金矿），辽宁罕王集团傲牛铁矿，塔吉克斯坦帕鲁特黄金冶炼厂（可生产99.99%纯金）等一大批国内外矿山的设计工作，积累了丰富的矿山设计和生产实践经验。在从事金银贵金属、稀有金属（锂辉石、锂云母矿）、有色金属、黑色金属矿山设计的同时，还设计了大量的萤石矿、石墨矿，包括浮选及提纯、膨胀石墨，钾钠长石矿、重晶石矿、硅砂矿等非金属矿山。

Jinpeng Group Metallurgical Mining Design Institute has Class A consulting qualification and Class B metallurgical mining design qualification. Since its establishment, the design institute has completed the design work of hundreds of mining and beneficiation projects at home and abroad, and has been highly praised by domestic and foreign customers.

The design institute has twenty majors. Most of the backbone technical personnel in various professions have more than 20 years of design experience, mainly engaged in the design and production commissioning of precious metal, non-ferrous and black metal mines, and achieving production standards. We have successfully completed the design work for a large number of domestic and foreign mines, including Zhongkuang Gold Industry (formerly known as Zhaojin Group Lingnan Gold Mine), Liaoning Hanwang Group Aoni Iron Mine, Tajikistan Parut Gold Smelter (capable of producing 99.99% pure gold), and others, which were once the largest gold mines in Asia. We have accumulated rich experience in mine design and production practice. While engaged in the design of gold, silver, precious metals, rare metals (spodumene, lithium mica), non-ferrous metals, and black metal mines, we also designed a large number of fluorite mines, graphite mines, including flotation and purification, expanded graphite, potassium sodium feldspar mines, barite mines, silica sand mines, and other non-metallic mines.

METALLURGICAL MINE DESIGN INSTITUTE 冶金矿山设计院

- | | |
|-----------|---------------------|
| • 可行性研究 | • Feasibility Study |
| • FEED | • FEED |
| • 基础设计 | • Basic Design |
| • 详细设计 | • Detailed Design |
| • 选厂3D设计 | • 3D Design |
| • Hazop研究 | • Hazop Research |

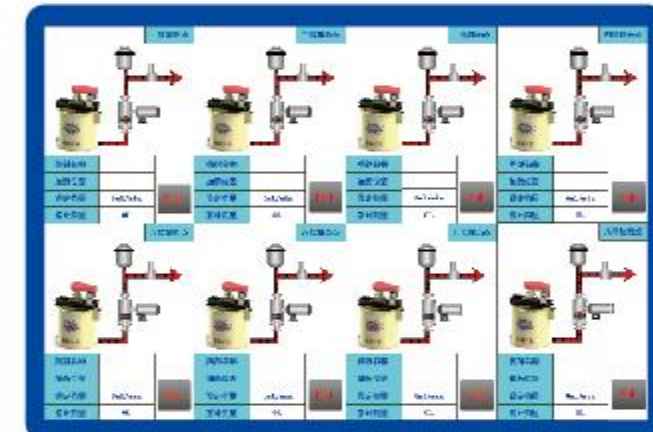
AUTOMATION RESEARCH INSTITUTE

自动化研究所

金鹏集团汇聚来自国内外高科技顶尖人才，瞄准世界前沿科技，以智能制造和人工智能作为技术创新导向，围绕在线检测，自动控制，应用软件，通信视频，智能矿山，智能工厂等领域的核心技术，自主开发了一系列具有世界先进水平的智能测控产品和系统。目前该技术和产品已应用到国内的多个大型矿山和一带一路上的十多个国家，取得了非常好的效果。金鹏集团努力把握“一带一路”历史机遇，为世界范围内建设更多的自动化、智能化、数字化、生态化的绿色矿山。

Jinpeng Group gathers top high-tech talents from home and abroad, aims at the world's cutting-edge technology, and takes intelligent manufacturing and artificial intelligence as the orientation of technological innovation. Focusing on the core technology in online detection, automatic control, application software, communication video, intelligent mine, intelligent factory and other fields, Jinpeng Group independently develops a series of intelligent measurement and control products and systems with the world's advanced level. The design scope of automatic control system includes: crushing, milling and classifying, flotation, concentrate dehydration, tailing processing and other beneficiation production process.

药剂添加控制系统 REAGENT ADDING CONTROL SYSTEM



自主研发的新型免标定加药机，采用定容加药原理，不用标定即可精确的加药，加药精度高。

The self-developed new calibration-free reagent feeder adopts the principle of constant volume dosing, which can accurately dosing without calibration and has high dosing accuracy.

手机APP平台 MOBILE APP PLATFORM



手机APP移动端监控PLC系统由现场感知、网络传输、远程监测控制三部分组成，手机APP远程监控PLC系统注重实效，功能完备丰富，操作简洁高效，界面美观大方。设备终端使用者能随时随地观察设备的运行状态，及时进行预警，提高了设备运行的可靠性，避免设备故障带来不必要的损失；也能通过远程实时查看设备的运行状态，来及时排除故障，提高设备维护的时效性。

The mobile monitoring PLC system consists of three parts: field perception, network transmission and remote monitoring and control. The mobile APP remote monitoring PLC system, with complete and rich functions, simple and efficient operation, beautiful interface, pays attention to its practical effects. The terminal user of the equipment can observe the operating status of the equipment at any time and anywhere. It can give an early warning in time, which improves the reliability of equipment running and avoids the unnecessary losses caused by equipment failures. What's more, by remote and real-time monitoring of equipment running status, the users can troubleshoot faults in time and improve the timeliness of equipment maintenance.

全自动钢球加补系统 AUTOMATIC STEEL BALL REPLENISHING SYSTEM



新型自动加球机可同时加三种球，有手动加球、定量定时加球、按矿量全自动加球三种模式，自动加球不需要人为干预全自动补加，每班每天的加球量自动记录保存。

The new type automatic ball adding machine can simultaneously add three kinds of balls with three adding modes including manual ball adding, quantitative and timed ball adding, automatic ball adding according to the ore quantity. With automatic replenishment, the automatic ball adding modes does not require human intervention, and the ball-adding quantity of each shift is automatically recorded and saved.

集中控制室 LARGE SCREEN CONTROL SYSTEM



大屏幕拼接显示系统建设的总体目标是：系统充分考虑到先进性、可靠性、经济性、可扩充性、可维护及管理性等原则，采用先进成熟的技术、遵循布局设计优良、设备应用合理、界面友好简便、功能有序实用、升级扩展性好的液晶大屏幕拼接系统，以满足中心大屏幕图像和数据显示的需求。

The overall goal of large screen splicing display system construction is: The system fully takes into account the principles of advanced nature, reliability, economy, scalability, maintainability and management, adopts advanced and mature technology, follows the excellent layout design, reasonable equipment application, friendly and simple interface, orderly and practical functions, upgrade and expandable LCD large screen splicing system to meet the needs of the central large screen image and data display.

破碎筛分控制系统 CRUSHING & SCREENING CONTROL SYSTEM

- 1、流程设备正常的顺序启停操作控制及无扰动切换，对设备状态进行监控与保护处理；
- 2、中、细碎缓冲矿仓料位检测与预警、联锁；
- 3、胶带输送机电流检测、打滑、跑偏检测与自动连锁控制；
- 4、破碎、筛分设备运行状态及保护的监控，所有电机过负荷保护自动连锁停车。
- 5、根据中间仓料位控制粗碎给矿机给矿量；中碎、细碎圆锥破碎机挤满给矿控制，根据破碎机进料口料位自动控制给矿量，实现挤满给矿，充分发挥设备潜能。

1.Normal sequential start and stop operation control and undisturbed switching of equipment, monitoring and protection of equipment status;
2.Material quantity detection, early warning and interlocking of medium and fine buffer ore bin
3.Current detection, slip & deviation detection and automatic interlocking control of belt conveyor
4.Monitoring for running status and protection of crushing & screening equipments, all motor overload protection and automatic interlock shutdown
5.The feed amount of the coarse crusher is controlled according to the material level of the intermediate bin. Cone crusher of medium crushing, fine crushing performs full feed control, according to the material of crusher inlet, automatically control the feed amount, achieving full feed and giving full play to the potential of the equipment.

磨矿分级控制系统 MILLING & CLASSIFYING CONTROL SYSTEM

- 1、给矿机自动轮换给矿
 - 2、球磨机给矿量闭路控制
 - 3、给矿水闭路控制
 - 4、排矿水闭路控制
 - 5、旋流压力闭路控制
 - 6、泵池液位闭路控制
1. feeding automatically and alternately
 2. closed-circuit control, of the feed amount of ball mill
 3. closed-circuit control, of feed water
 4. closed-circuit control, of discharge water
 5. closed-circuit control, of cyclone pressure
 6. closed-circuit control, of pulp pool level

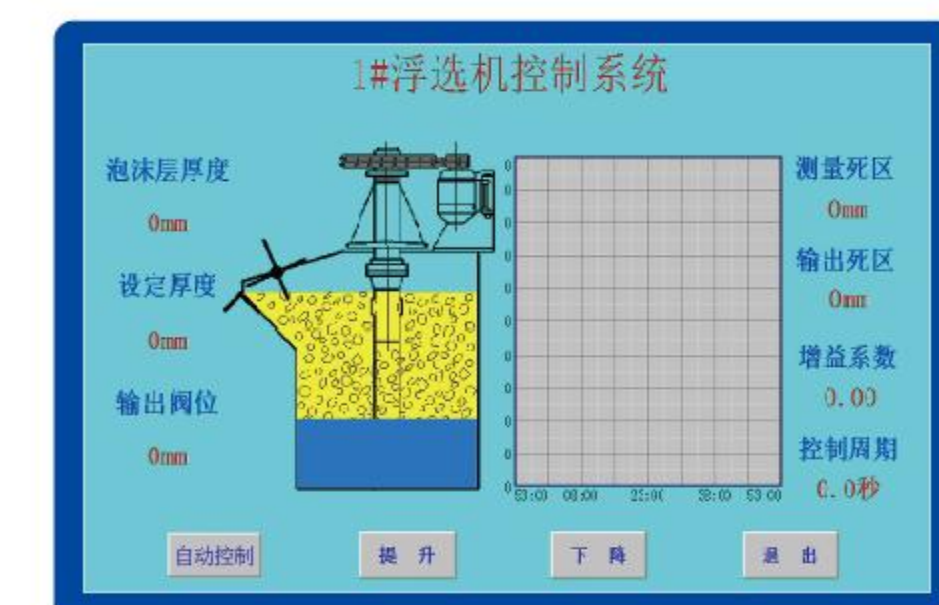
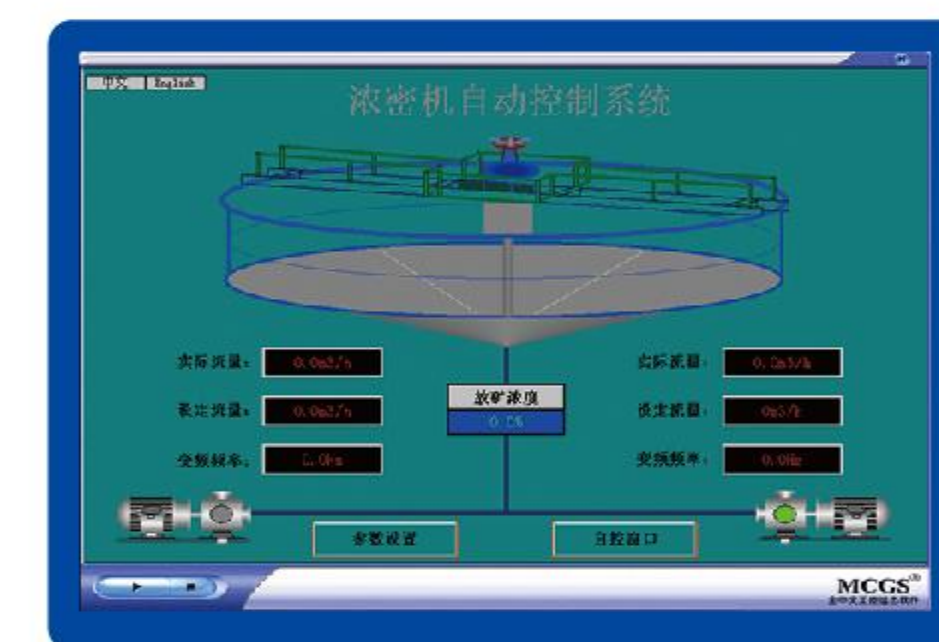
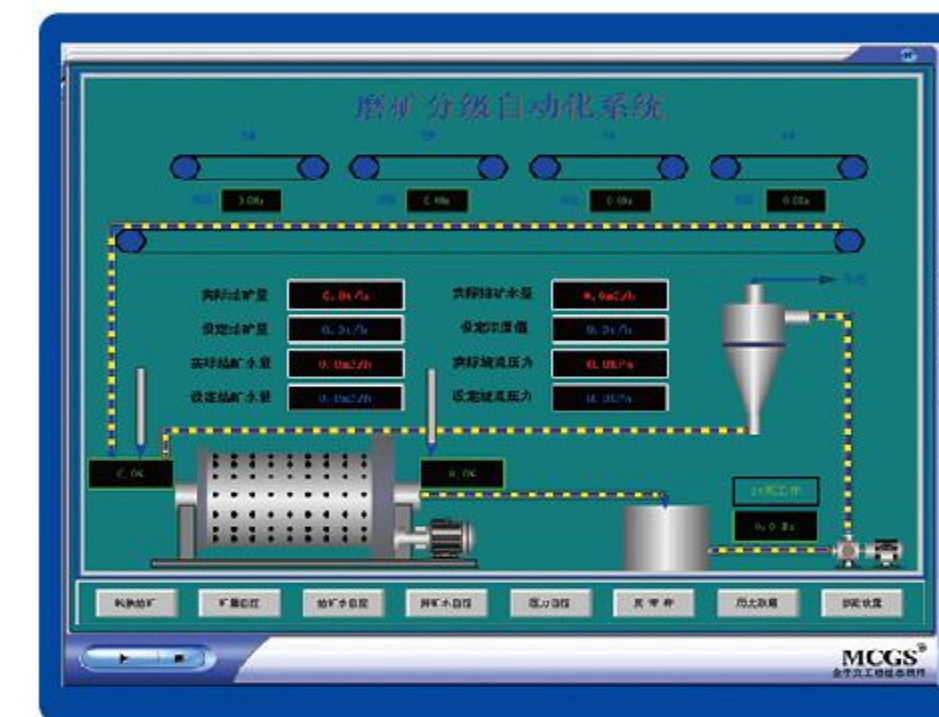
浓密机控制系统 THICKENER CONTROL SYSTEM

- 1、浓密机液压提耙自动控制，实时监测爬架驱动油压，自动提耙降耙；
- 2、恒定流量自动放矿，根据进入浓密机的平均矿量设定放矿流量，实时监测实际放矿流量，通过调节放矿泵的转速实现恒定流量放矿，为后续浸出、浮选及过滤作业提供稳定的条件，彻底避免浓密机压耙子事故的发生，解决因放矿流量波动造成生产指标恶化的问题。

1.thickener hydraulic rake automatic control, real-time monitoring of climbing frame driving oil pressure, automatic rake and drop rake;
2.constant flow quantity and automatic ore drawing, according to the average amount of ore into the thickener set the ore drawing quantity, real-time monitoring of the actual ore drawing quantity, by adjusting the speed of the ore drawing pump to achieve ore drawing with constant flow quantity, providing stable conditions for subsequent leaching, flotation and filter process, completely avoiding the thickener rake accident, and solving the problem of deterioration of production indicators caused by the fluctuation of ore drawing flow rate.

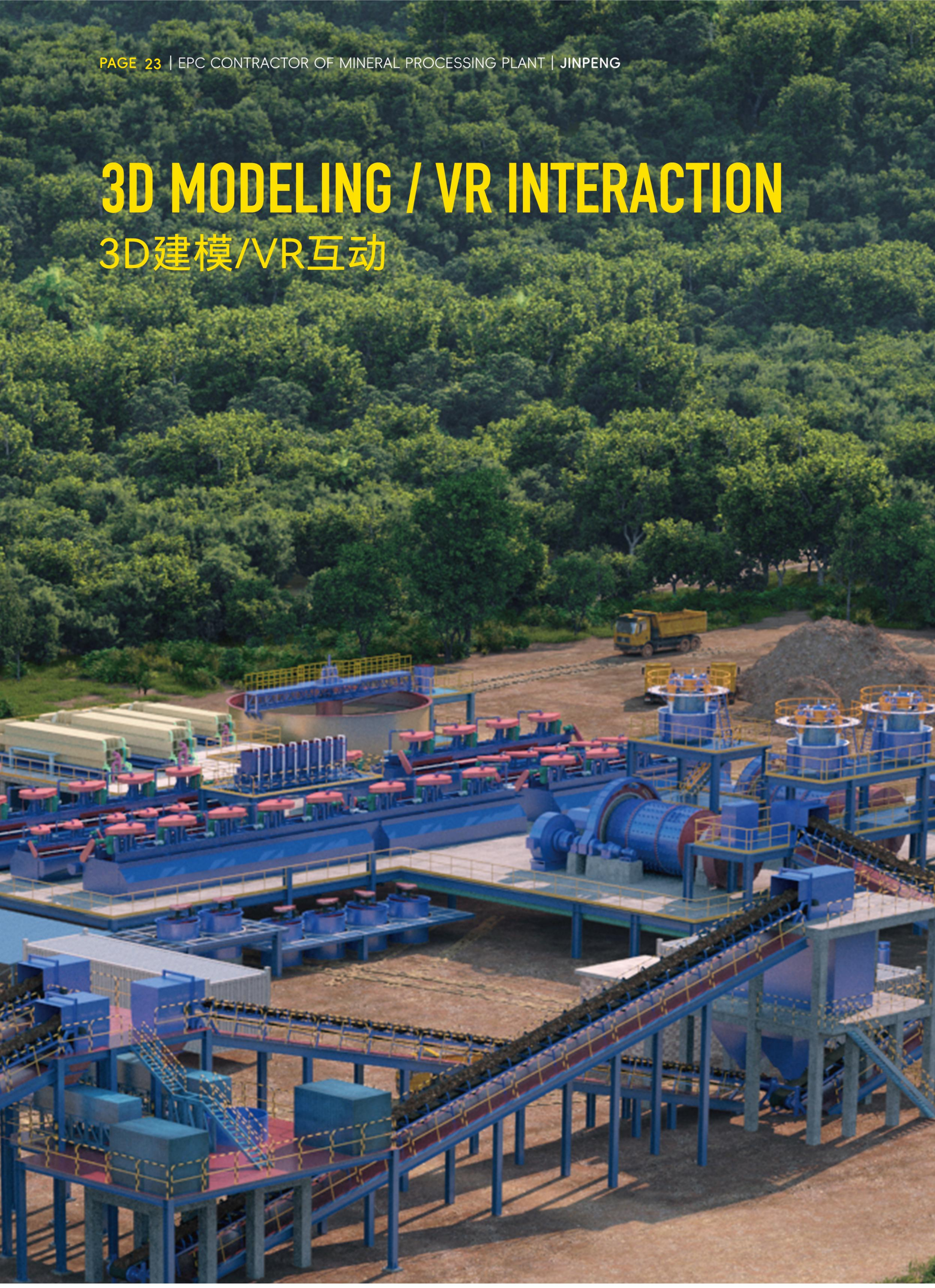
浮选控制系统 FLOTATION CONTROL SYSTEM

- 1、搅拌桶、浮选机及辅助设备的运行状态监视与控制；
 - 2、浮选槽液位检测与自动控制；
 - 3、鼓风机恒定风压自动控制；
 - 4、浮选机充气量自动控制；
 - 5、原矿、精矿、尾矿、综合尾矿自动取样
1. monitoring and control for running status of agitation tank, flotation cell and auxiliary equipments
 2. detection and automatic control of flotation tank level
 3. automatic control for constant air pressure of blower
 4. automatic control for air filling of flotation cell
 5. automatic sampling of raw ore, concentrate, tailings and composite tailings.



3D MODELING / VR INTERACTION

3D建模/VR互动



3D建模 3D MODELING

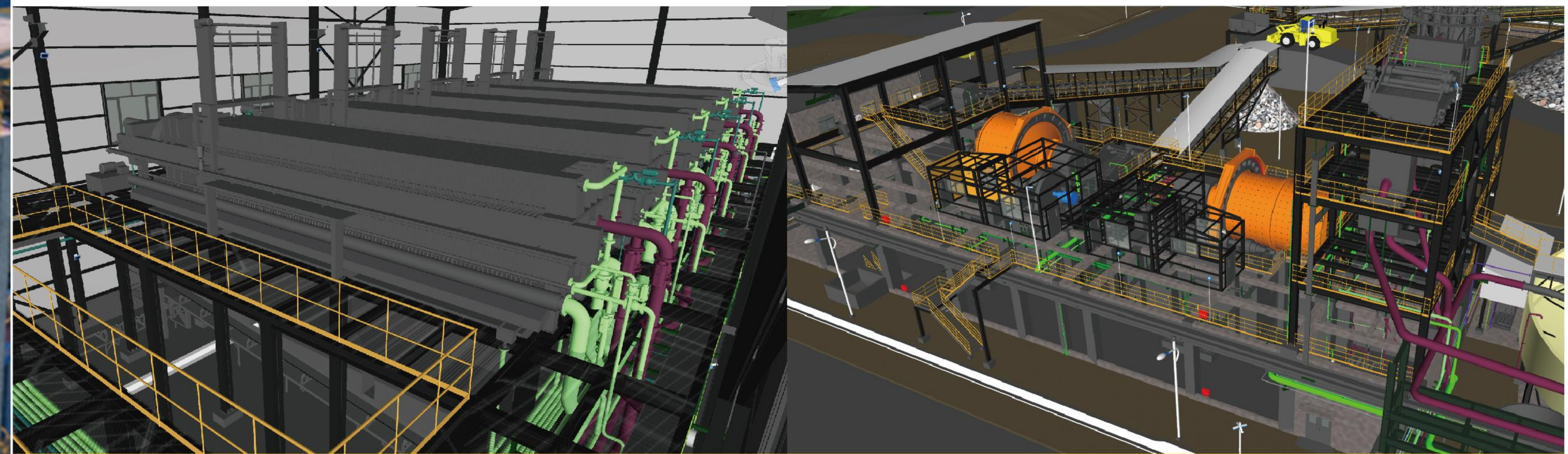
金鹏集团拥有专业的三维设计软件和 BIM 设计管理系统，借助BIM技术，设计师可以更好地理解和分析建筑物的各个方面，并进行协同设计和冲突检测，并出具详细工程量清单，完善管道可出图性。同时可以实现3D模型的协同审阅和整合协调，能够更好地展示项目的全貌，为自动化绿色矿山设计创造了更有利的条件。

Jinpeng Group is equipped with professional 3D design software and BIM design management system. With the help of BIM technology, designers can better understand and analyze all aspects of the building, and conduct collaborative design and conflict detection, and issue a detailed bill of engineering quantities, and improve the pipeline drawing. Meanwhile, it can realize collaborative review as well as integration and coordination of 3D models, which can better show the overall perspectives of the project, and create more favorable conditions for automated green mine design.

VR互动 VR INTERACTION

通过BIM三维建模技术与VR和裸眼3D技术相结合，可以形象地展示设备、选矿厂720全景及局部设计，从而帮助客户更好地理解 and 预览项目。同时，这些技术也为选厂的自动化和智能化设计提供了支持，使其能够实现更高水平的工作效率和质量。

Through the combination of BIM 3D modeling technology and naked eyes 3D technology, the equipment, 720 panorama of mineral processing plant and local design can be displayed visually, thus helping the customer to better understand and preview project. At the same time, these technologies also provide support for the automatic and intelligent design of mineral processing plant, enabling it to achieve higher levels of working efficiency and quality.



MACHINERY AND EQUIPMENT MANUFACTURING PLANT

机械设备加工厂

金鹏矿机拥有五大生产区，目前配备有10M数控双柱立车、8米滚齿机、TK6920数控落地铣镗床、7×20米数控桥式龙门铣镗床等200余台大型加工车床，可生产选厂所需的600余种选冶设备。金鹏集团机械加工厂对所生产的每台设备均实行严格的全过程质量管控，在同行业内率先通过了ISO9001：2015质量管理体系认证和CE认证。

Jinpeng Mining Machinery has five major manufacturing plants, equipped with over 200 sets of large-scale processing lathes, including 10-meter CNC double-column vertical lathes, 8-meter gear hobbing machine, TK6920JC CNC floor-type milling and boring machine, 7×20 meter CNC gantry type milling and boring machine, which can provide more than 600 kinds of beneficiation and metallurgical equipment required for mineral processing plants of various scales. Every machine produced in our mechanical plant is subjected to rigorous and full-process quality control. And the company has been the first in the industry to pass the ISO9001:2015 quality management system certification and CE certification.

金鹏矿机始终坚持
“安全第一，质量至上”
生产方针





01

金鹏矿机致力于为不同规模的选矿厂提供全方位、定制化的成套装备解决方案。公司产品线覆盖破碎、磨矿、分级、浮选、脱水等关键环节，确保整套流程高效稳定运行，助力客户实现资源效益最大化。

Jinpeng Mining Machinery is dedicated to providing all-round and customized complete sets of equipment solutions for mineral processing plants of various scales. Our product range covers key processes such as crushing, grinding, classification, flotation, and dewatering, which ensures the efficient and stable operation of the entire production line and helps customers maximize resource efficiency.

02

在质量管理方面，金鹏矿机构建了健全且严格的质量控制体系。我们执行严格的入场检验标准。生产过程中采用先进的加工设备和制造工艺，每道工序均设有质量检测点，实现全流程精细化管理。成品出厂前还需经过多项性能测试与可靠性验证，确保每一台设备都符合设计要求与企业标准。

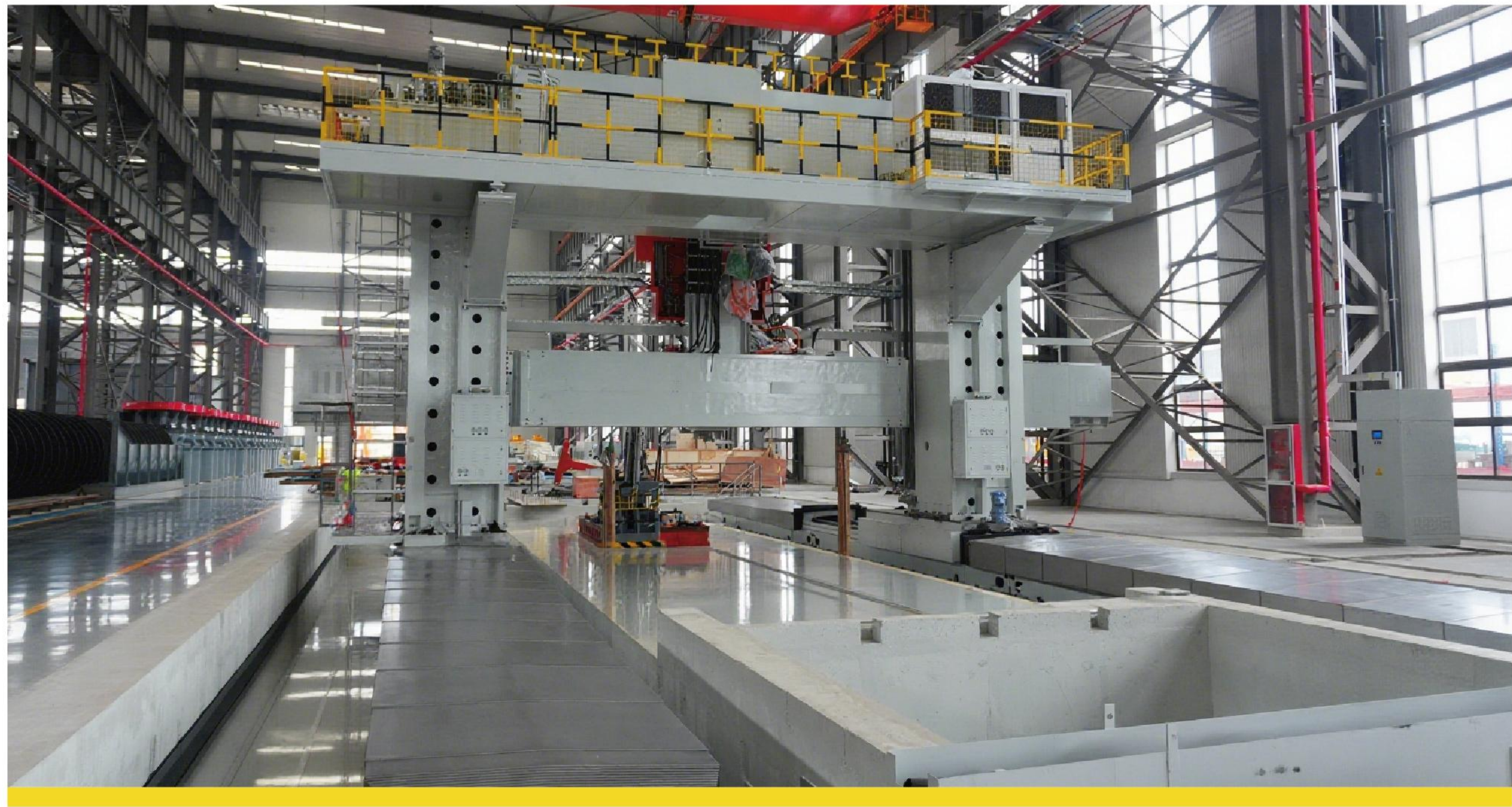
In terms of quality management, Jinpeng Mining Machinery has established a sound and rigorous quality control system. We implement strict incoming inspection standards. During the production process, advanced processing equipment and manufacturing technologies are adopted, with quality inspection points set up at every work procedure to achieve refined control throughout the entire process. Before leaving the factory, finished products also undergo multiple performance tests and reliability verification to ensure that each piece of equipment meets the design requirements and corporate standards.

03

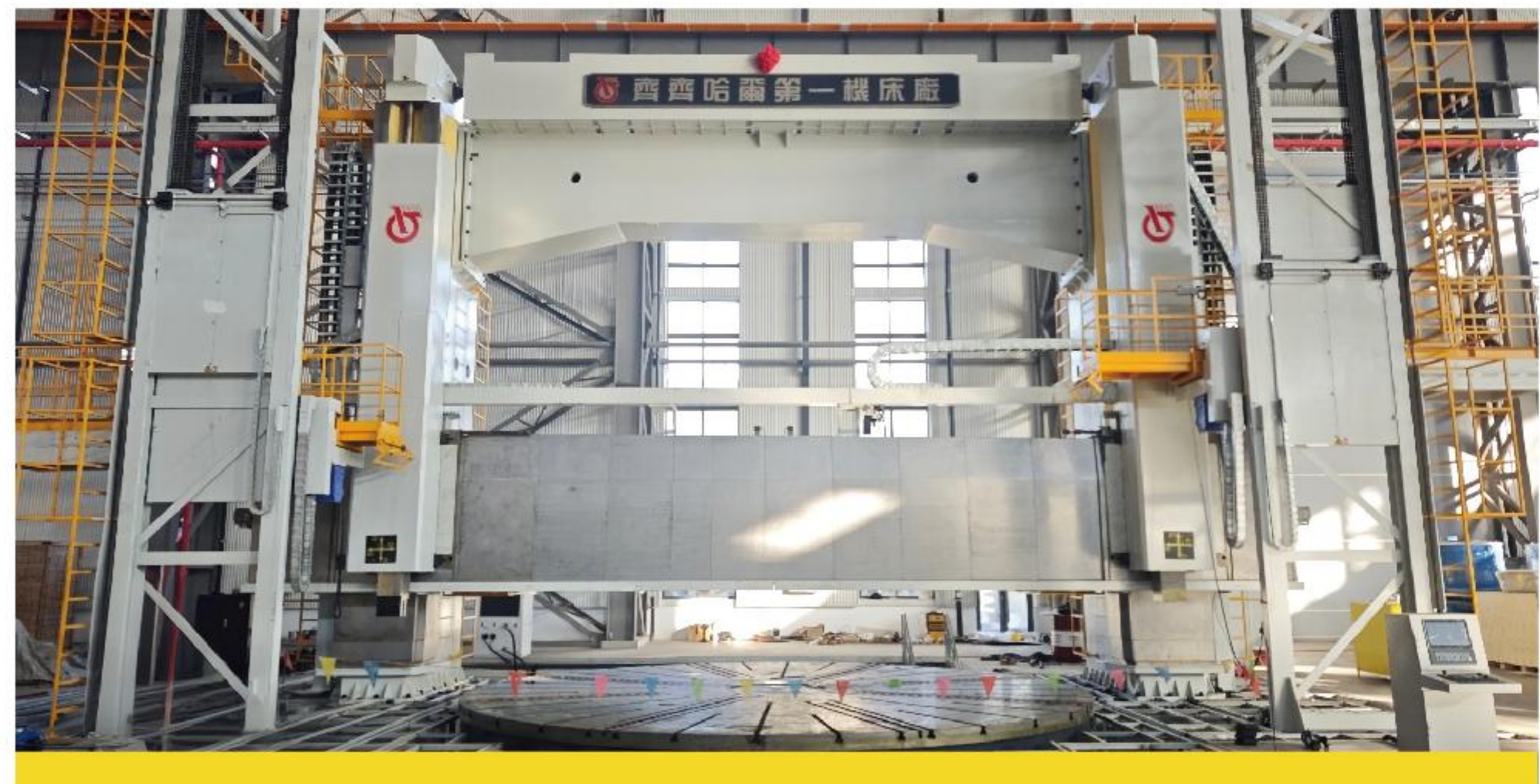
凭借持续的技术创新和过硬的产品质量，金鹏矿机赢得了市场的广泛认可。公司始终以高品质产品和服务体系为核心竞争力，致力于为全球矿业客户提供更可靠、更可持续的选矿装备解决方案。

With its continuous technological innovation and excellent product quality, Jinpeng Mining Machinery has gained wide recognition in the market. The company has always taken high-quality products and a comprehensive service system as its core competitiveness, and is committed to providing more reliable and sustainable mineral processing equipment solutions for global mining customers.





7-20米数控桥式龙门铣镗
7-20 CNC Gantry Type Boring and Milling Machine



10米数控双柱立式铣床
10-Meter CNC Double-Columns Vertical Milling Machine



HDRWS机器人焊接工作站
HDRWS Robot Welding Workstation



TK6920JC数控落地铣镗床
TK6920JC CNC Floor-Type Milling and Boring Machine



8米数控滚齿机
8-Meter CNC Gear Hobbing Machine



D-Soar 30000W 高功率光纤激光切割机 D-Soar 30000W Fiber Laser Cutting Machine



CX6060-10米卧车
Horizontal Lathe



智能激光切割机
Intelligent laser cutting machine



球磨机大型自动焊接装备
Welding Machine



数控折弯机
CNC Bending Machine



数控激光切管机
CNC Laser Pipe Cutting Machine



上辊万能卷板机
Upper-roll Universal Plate Bending Machine

PRODUCTS AND EQUIPMENT

产品设备

磨机 Mill

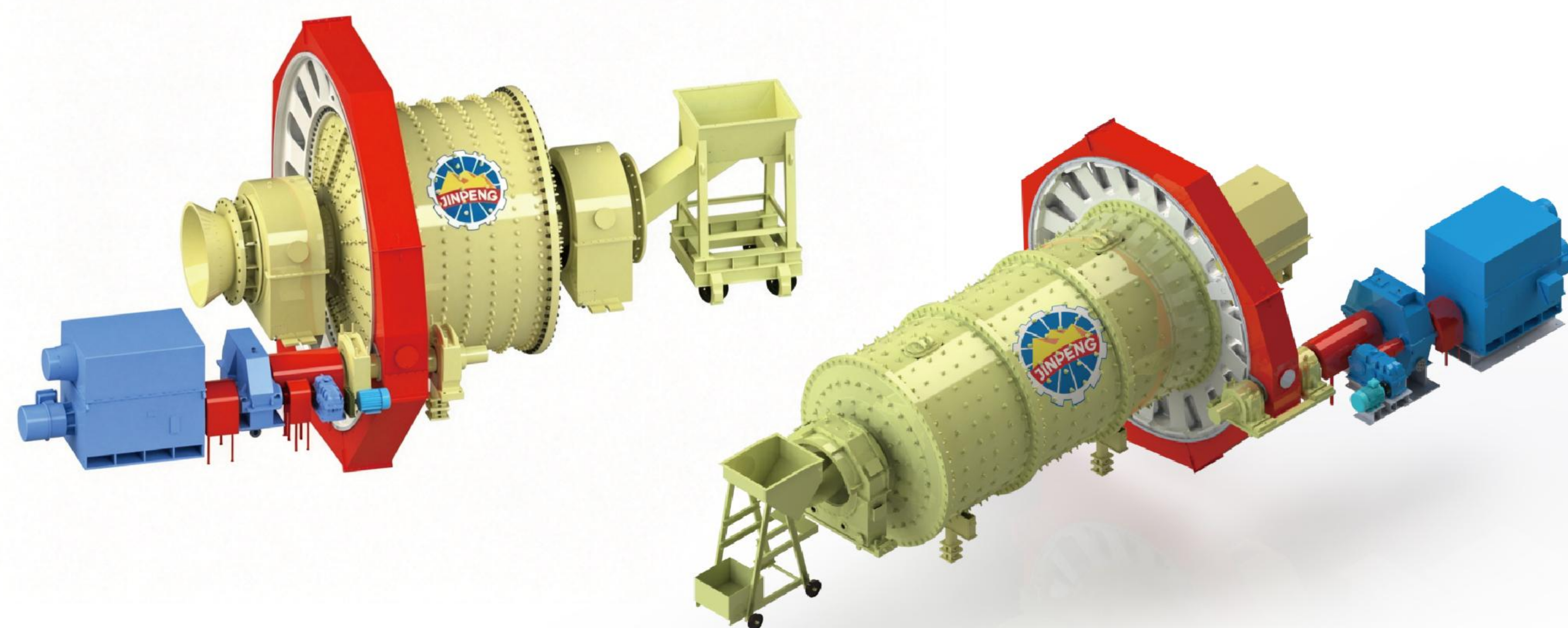


球磨机是选矿碎磨工段核心设备，金鹏矿机依托20余年全流程选矿试验、500+座总包选厂落地经验，自主研发常规格子型、湿式溢流型、大型半自磨全系列磨机，筒体覆盖 $\Phi 0.9\text{m} \sim \Phi 5.5\text{m}$ 全规格，适配日处理50~10000吨金、铜、铁、铅锌、锂、石墨等70余种矿物闭路磨矿生产线。

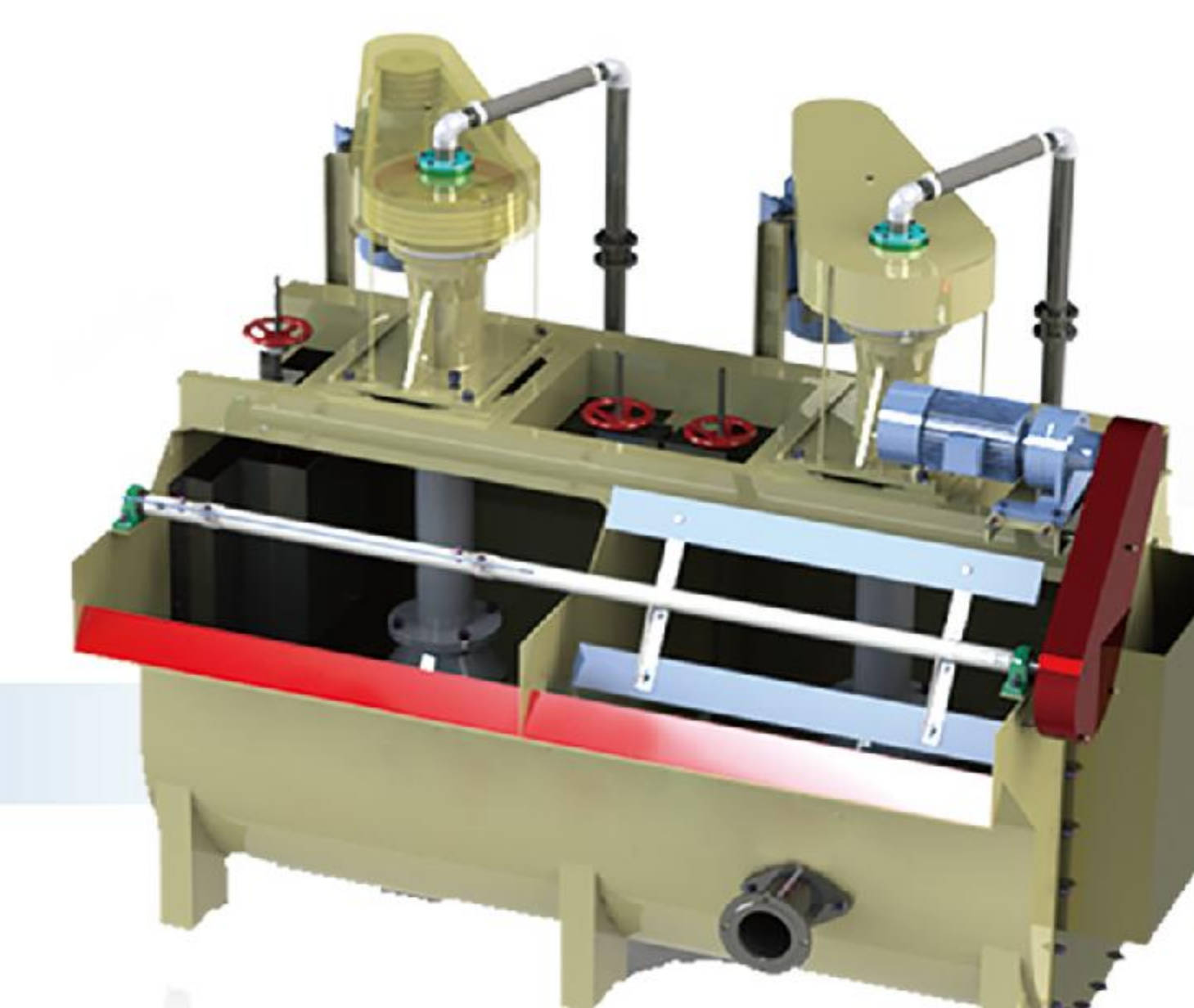
球磨机配备智能化控制，可实现给矿量、给矿水、排矿水、旋流压力、泵池液位闭路控制。配备H62黄铜测温组件多重安全监测，优化波形耐磨衬板，格子、溢流、半自磨多机型可选，搭载柔性传动与齿轮油雾润滑，大型设备配有液压顶起、慢传检修装置，支持锂、石墨矿石定制，智能中控远程管控，模块化易维护，干湿磨全覆盖，可配套选矿整线一体化供应。

The ball mill is the core equipment in the crushing and grinding stage of mineral processing. Leveraging over 20 years of full-process mineral processing testing and the hands-on delivery of more than 500 turnkey processing plants, Jinpeng Mining Machinery has independently developed a complete series of mills, including conventional grate-type, wet overflow-type, and large-scale semi-autogenous (SAG) mills. Shell diameters span the full range from $\Phi 0.9\text{ m}$ to $\Phi 5.5\text{ m}$, adapting to closed-circuit grinding lines with daily processing capacities of 50 to 10,000 tonnes for over 70 types of minerals, including gold, copper, iron, lead-zinc, lithium, and graphite.

The ball mill is equipped with intelligent control, enabling closed-loop control of ore feed rate, feed water, discharge water, cyclone pressure, and sump level. It features H62 brass temperature sensing components for multiple safety monitoring. Optimized wave-shaped wear-resistant liners are fitted, with multiple model options available — grate, overflow, and SAG. The mill integrates flexible drive systems and gear oil mist lubrication. Large-scale units are equipped with hydraulic jacking and inching devices for maintenance. Customization is supported for lithium and graphite ores. With intelligent centralized remote control, a modular design for easy maintenance, and full coverage of both dry and wet grinding, the ball mill can be supplied as part of an integrated, complete mineral processing line.



浮选机 Flotation Cell

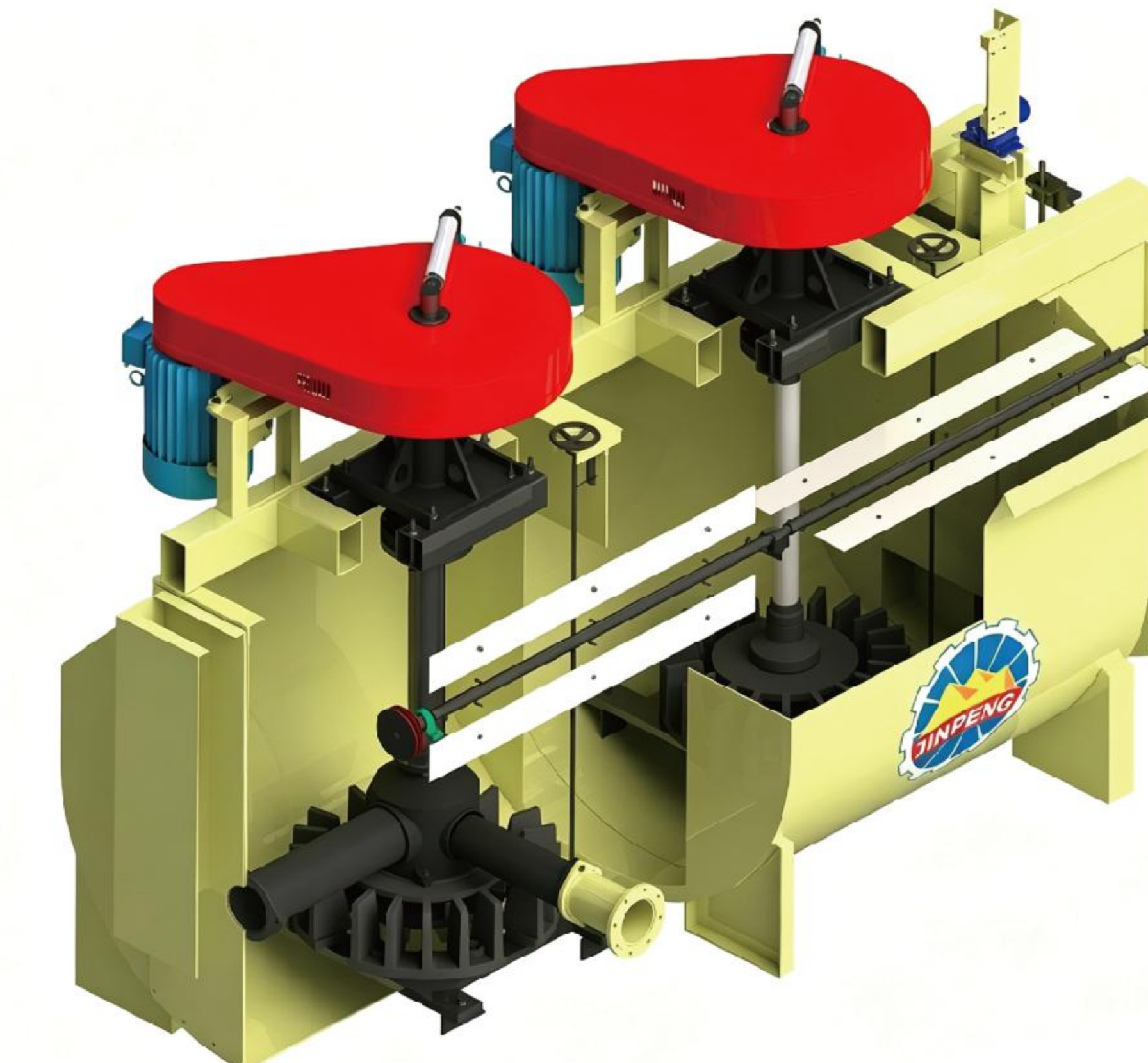


金鹏矿机布局全品类浮选装备矩阵，包含XCF/KYF联合充气机组、CLF粗颗粒专用浮选机、SF/BF自吸浮选机，一站式覆盖金、铜、铁、锂及多金属矿石粗选、扫选、精选全分选工序。设备搭载后倾锥形低速叶轮与全域多孔布气系统，立体弥散微泡，相较传统设备节能30%，药剂损耗下降10%~15%；XCF与KYF槽体可无泵水平串联布设，省去泡沫中转设备，精简厂区工艺管线。创新U型防积砂槽体辅以聚脲高强防腐耐磨层，消除分选死角，有效延长叶轮、定子耐磨组件使用周期。整机集成全套智能自控系统，可实现液位、风压、充气量闭环自动调节，并配备多点矿浆智能取样装置，以智慧大脑赋能选厂精细化运营，构筑高效稳定的现代化浮选分选体系。

Jinpeng Mining Machinery has established a comprehensive flotation equipment portfolio, comprising XCF/KYF combined air-inflation flotation machines, CLF coarse particle flotation machines, and SF/BF self-aspirated flotation machines. This lineup provides one-stop coverage for the entire flotation circuit—rougher, scavenger, and cleaner stages—for gold, copper, iron, lithium, and polymetallic ores.

The equipment is fitted with backward-inclined conical low-speed impellers and a full-area porous air distribution system, generating three-dimensionally dispersed micro-bubbles that deliver 30% energy savings and a 10%~15% reduction in reagent consumption compared to conventional equipment. XCF and KYF cells can be arranged in a horizontal series without the need for pumps, eliminating froth transfer equipment and simplifying plant process piping.

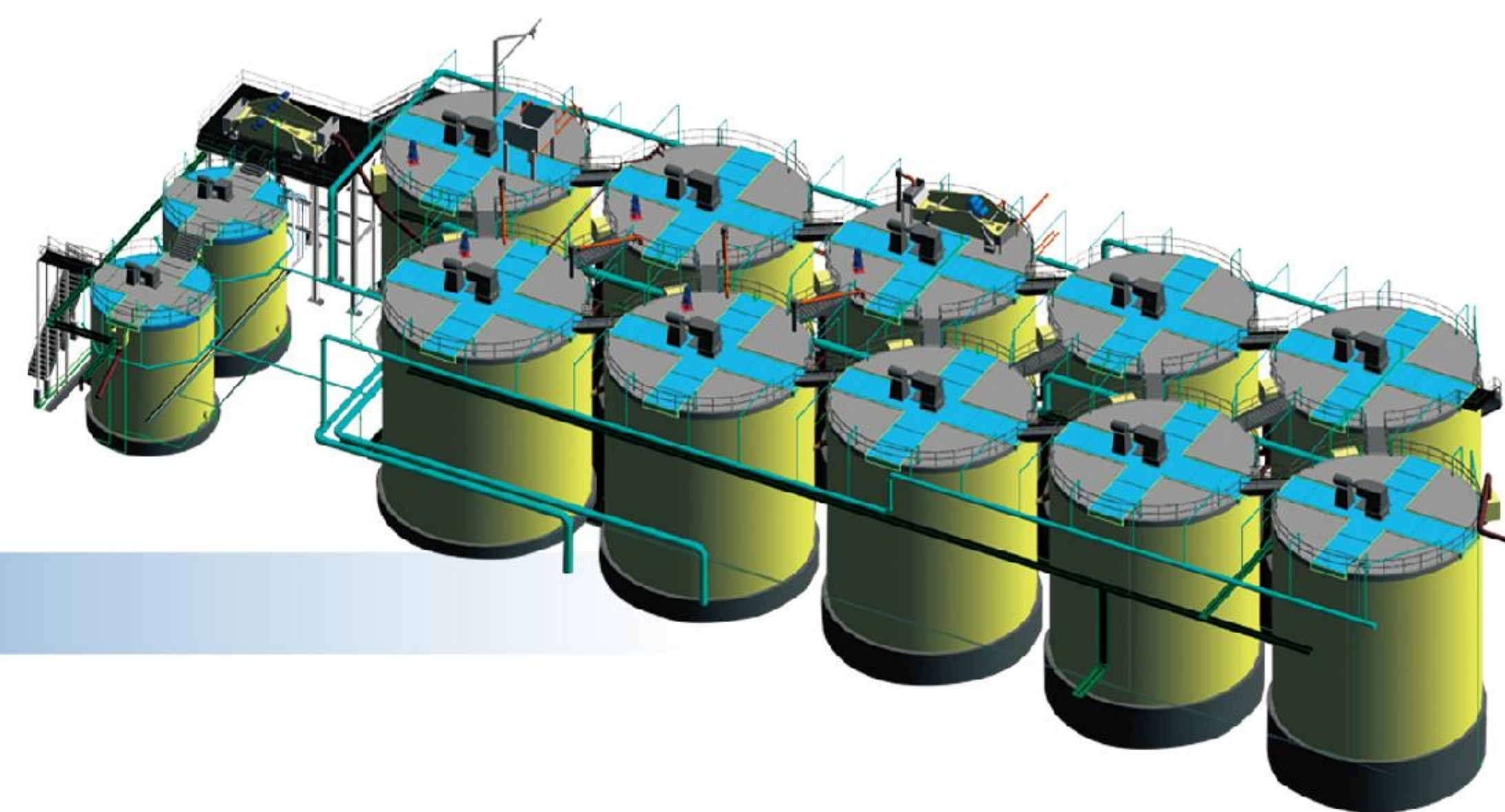
The innovative U-shaped anti-sanding tank, reinforced with a high-strength polyurea anti-corrosion and wear-resistant coating, eliminates dead zones in separation and effectively extends the service life of impeller and stator wear components. The complete machine integrates a full intelligent automatic control system capable of closed-loop automatic adjustment of pulp level, air pressure, and aeration rate, along with a multi-point intelligent slurry sampling device. With a "smart brain" empowering refined concentrator operations, it builds an efficient and stable modern flotation separation system.



PRODUCTS AND EQUIPMENT

产品设备

浸出槽 Leaching Tank



金鹏成功研发出拥有完全自主知识产权的大型双叶轮浸出槽，取得了关键技术的重大突破。该设备成功解决了现有技术在大中型化、充气性能与搅拌效率等方面的瓶颈，实现了三者性能的有效统一。目前，相关技术已荣获5项国家专利授权（含2项发明专利、3项实用新型专利），标志着其创新性获得了权威认可。此项成果有力推动了我国矿山机械行业的技术进步与产业升级进程。

Jinpeng has successfully developed a large-scale dual-impeller leaching tank with completely independent intellectual property rights, achieving a major breakthrough in key technologies. This equipment effectively addresses the bottlenecks of existing technologies in terms of large-scale design, aeration performance, and agitation efficiency, achieving an optimal balance among these three aspects. At present, the related technologies have been granted five national patents (including two invention patents and three utility model patents), signifying authoritative recognition of their innovativeness. This achievement strongly promotes technological progress and industrial upgrading in China's mining machinery industry.

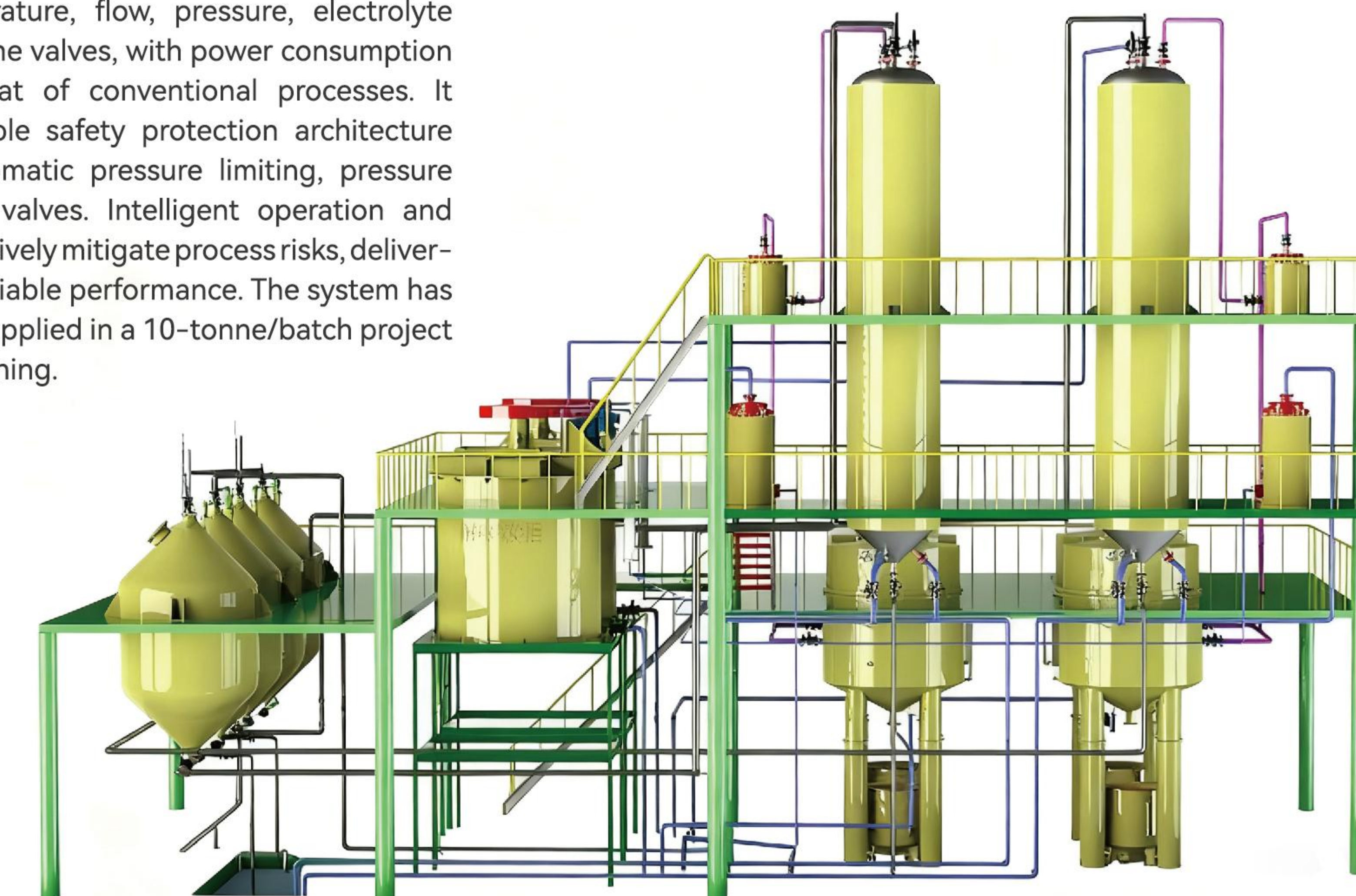


高温高压无氰解吸电解系统

High-Temperature and High-Pressure Cyanide-Free Elution and Electrowinning System

高温高压无氰解吸电解系统融汇绿色提金新工艺，选用无毒复合药剂，于150℃、0.5MPa工况下高效解吸载金炭，同步还原活性炭吸附活性，提升炭循环复用效率。系统实现温度、流量、压力、电解液位及全管路阀门全自动闭环调控，电耗仅为传统工艺三分之一；搭载自动限压、泄压、安全阀三重安全防护架构，智能化运维规避工况风险，工艺稳定可靠。在贵州紫金矿业10吨/批次的项目中成功应用。

This system integrates a green gold extraction process using a non-toxic composite reagent to efficiently desorb gold-loaded carbon under conditions of 150℃ and 0.5 MPa. It simultaneously regenerates the adsorption activity of the activated carbon, significantly improving its recycling efficiency. The system achieves fully automatic closed-loop control of temperature, flow, pressure, electrolyte level, and all pipeline valves, with power consumption only one-third that of conventional processes. It incorporates a triple safety protection architecture consisting of automatic pressure limiting, pressure relief, and safety valves. Intelligent operation and maintenance effectively mitigate process risks, delivering a stable and reliable performance. The system has been successfully applied in a 10-tonne/batch project at Guizhou Zijin Mining.

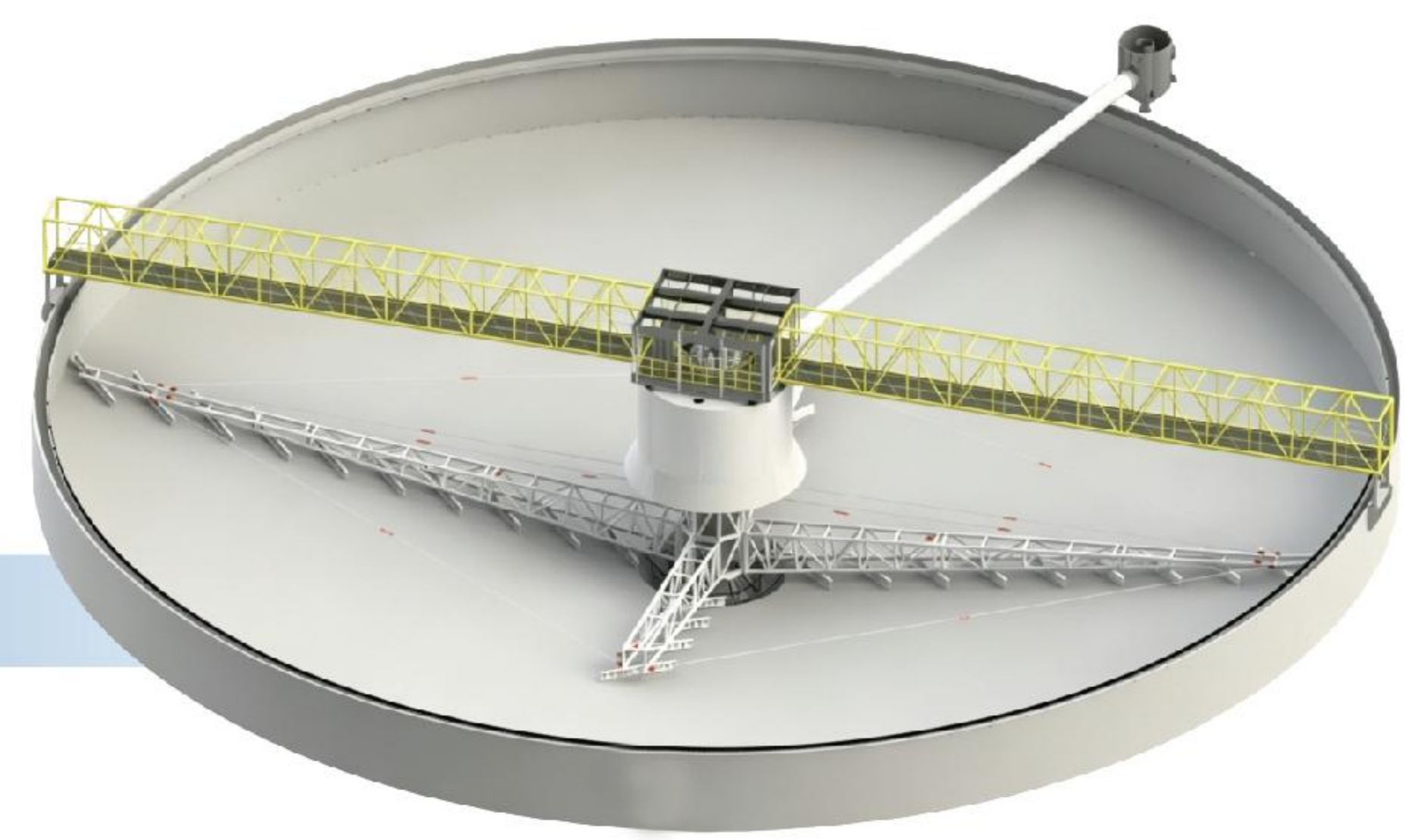


PRODUCTS AND EQUIPMENT

产品设备

高效液压浓密机

High-Efficiency Hydraulic Thickener



金鹏高效液压浓密机融汇前沿重力沉降机理与液压驱动核心技术，是新一代智能化固液分离核心装备，广泛应用于选矿厂精矿浓缩、尾矿干排及工业废水净化工段。设备搭载智能液压提耙系统，实时监测耙架油压并自适应升降耙架，从根源规避压耙停机风险；配套恒流量自动排矿模块，依据入料矿量精准设定排矿标准，实时采集实际排矿数据并变频调控底流泵转速，持续输出浓度稳定的底流矿浆，为浮选、浸出、过滤后端工序筑牢稳定工艺条件，消除流量波动引发的分选指标失衡难题，兼顾运行安全性与工艺连续性。

The Jinpeng High-Efficiency Hydraulic Thickener integrates advanced gravity sedimentation principles with core hydraulic drive technology, representing a new generation of intelligent solid-liquid separation equipment. It is widely used in concentrate thickening, tailings dry discharge, and industrial wastewater purification in mineral processing plants.

The equipment features an intelligent hydraulic rake lifting system that monitors rake frame hydraulic pressure in real time and adaptively raises or lowers the rake frame, fundamentally eliminating the risk of rake bogging and subsequent shutdown. A matching constant-flow automatic discharge module precisely sets discharge criteria based on feed tonnage, collects real-time discharge data, and adjusts the underflow pump speed via variable frequency control. This continuously delivers underflow slurry with stable density, establishing reliable process conditions for downstream operations such as flotation, leaching, and filtration. By eliminating imbalances in separation performance

重型板式给料机

Heavy-Duty Apron Feeder

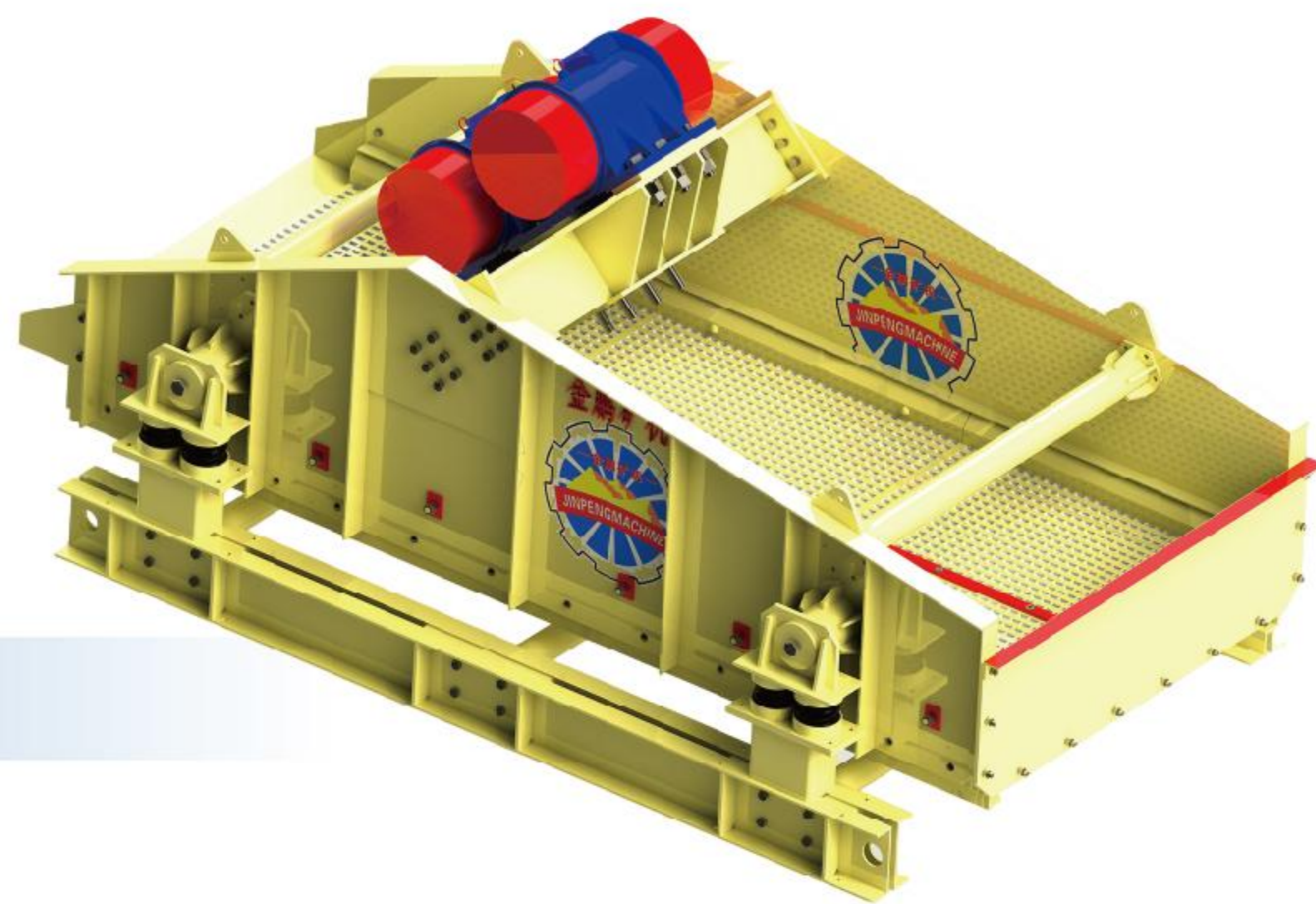


重型板式给料机是运输机械的辅助设备——固定式给料机。该机作为料仓向初级破碎机连续和均匀给料之用，也可用于短距离的物产输送，尤其适用于输送较大比重、较大粒度、磨损性强的物料，并能在露天、潮湿等恶劣条件下可靠地工作，故在冶金、矿山、水泥、建材等部门广泛应用。该机可水平安装，也可倾斜安装，最大倾角为12°，为避免物料直接打击给料机，要求料仓不出现卸空状态。

The heavy-duty apron feeder is a stationary feeding device used as auxiliary equipment in material handling systems. It is designed to feed primary crushers continuously and uniformly from a storage bin, and can also be utilized for short-distance material transport. It is particularly suitable for handling materials with high bulk density, large particle size, and strong abrasiveness, and operates reliably under harsh conditions such as open-air and wet environments. As a result, it is widely applied in metallurgy, mining, cement, building materials, and other sectors. The feeder can be installed horizontally or on an incline, with a maximum inclination angle of 12°. To prevent direct impact of falling material on the feeder, the bin must not be allowed to completely empty.

振动筛

Vibrating Screen



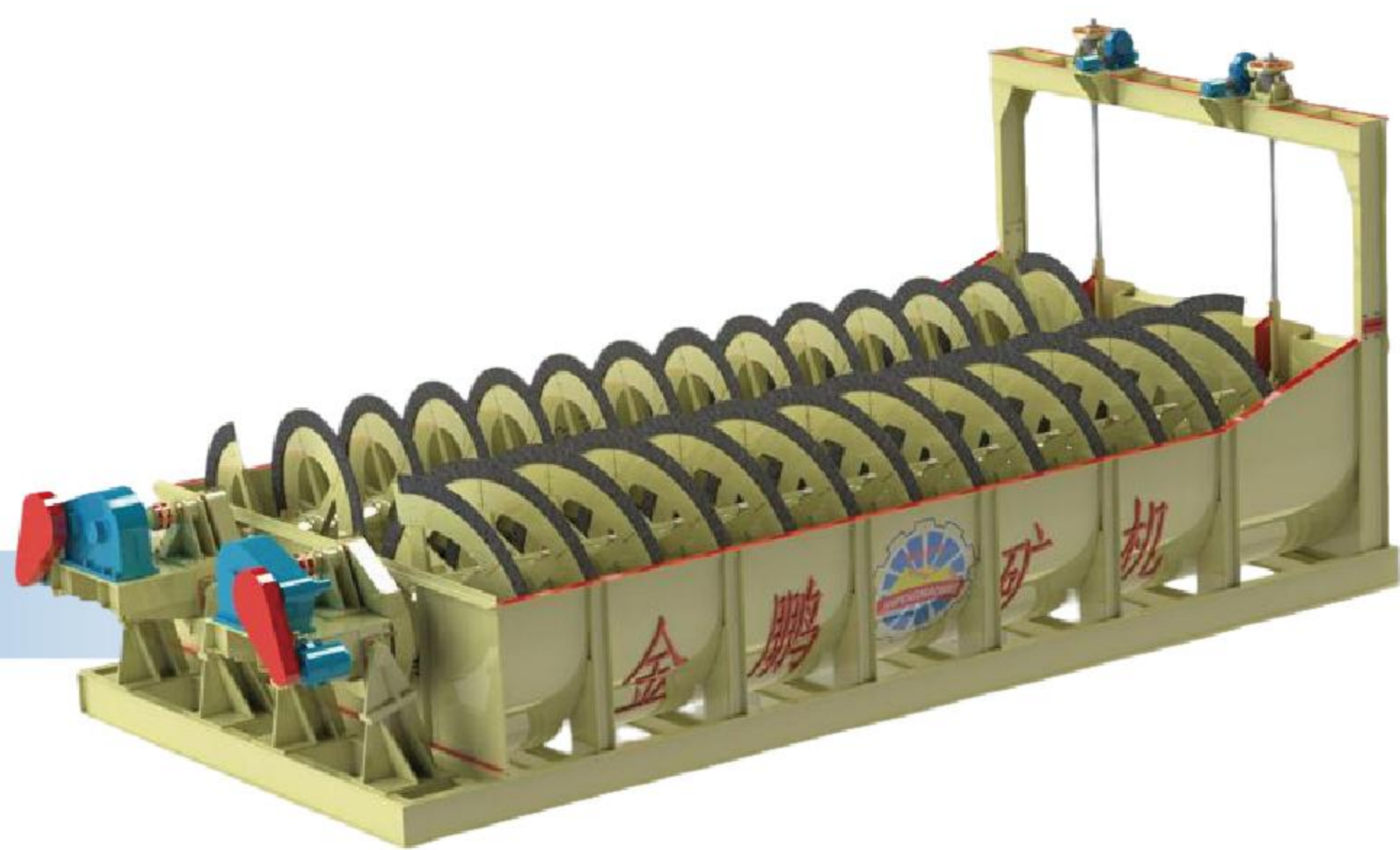
ZKR/YRK系列振动筛是金鹏矿机依托国外先进筛分技术、结合国内矿山工况自主研发的标准化筛分设备。振动筛搭载可调偏心块激振结构，激振力可控，搭配橡胶减振弹簧、耐磨聚氨酯/锰钢筛网使用寿命长，干湿分级通用，运行平稳易检修。设备覆盖金属矿山、砂石骨料、冶金、煤炭全流程分级、脱水工序，模块化、通用化程度行业领先，全部核心受力部件经过有限元疲劳强度校核，适配24小时连续重载恶劣工况。

The ZKR/YRK series vibrating screen is a standardized screening equipment independently developed by Jinpeng Mining Machinery, integrating advanced overseas screening technology with the actual working conditions of domestic mines. Equipped with an adjustable eccentric block excitation system that allows controllable excitation force, combined with rubber vibration-damping springs and wear-resistant polyurethane/manganese steel screen mesh, it delivers a long service life. The screen is suitable for both dry and wet classification, featuring smooth operation and easy maintenance.

This equipment covers the full process of classification and dewatering across metal mines, sand and aggregate, metallurgy, and coal industries. It boasts an industry-leading level of modularization and universal design. All core load-bearing components have undergone finite element fatigue strength verification, ensuring suitability for 24-hour continuous heavy-duty operation under harsh conditions.

分级机

Classifier



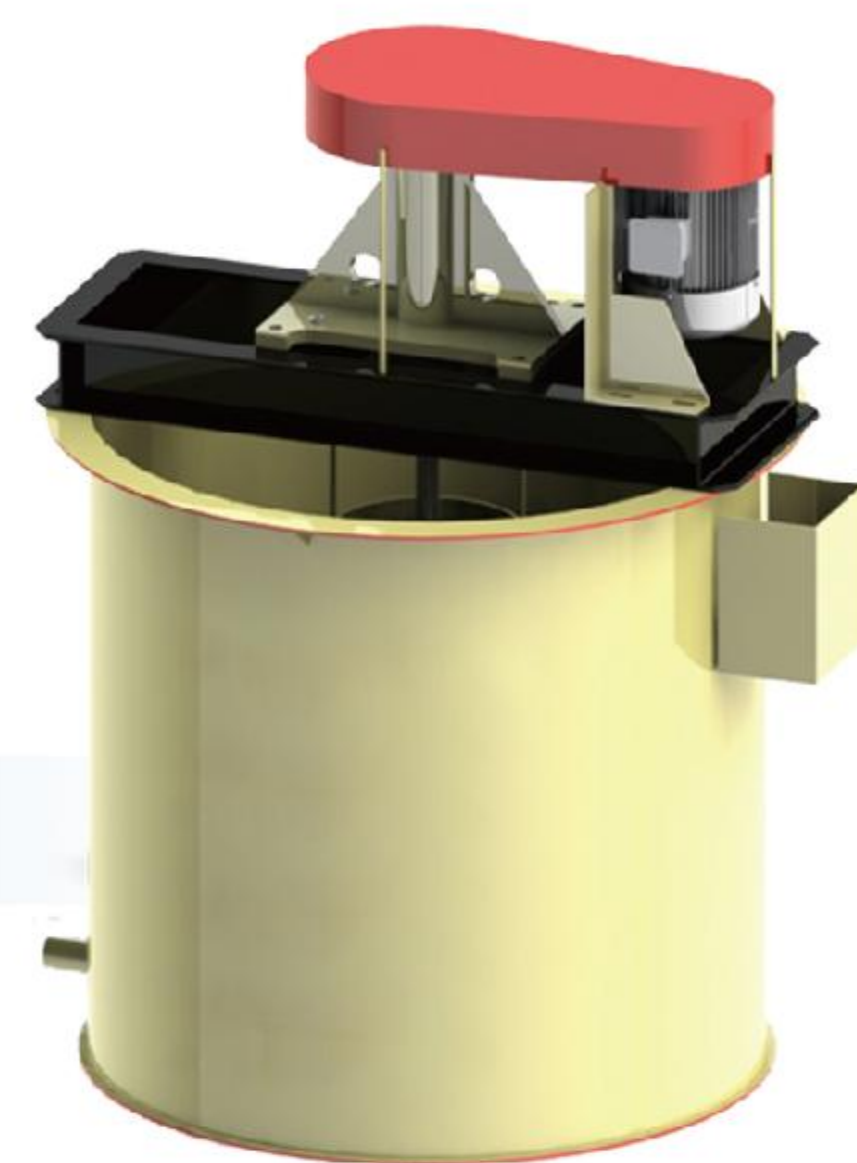
金鹏分级机产品系列成熟，螺旋直径范围100–3500mm，兼备单螺旋和双螺旋结构，并支持定制化长度。其中，2FG-35型双螺旋分级机荣获国家实用新型专利（专利号：ZL201821186100.8），彰显了产品在设计与创新方面的领先优势。

The Jinpeng classifier products boast a mature design, with spiral diameters ranging from 100 to 3500 mm. Available in both single- and double-spiral configurations, it can also be customized in length. Among them, the 2FG-35 double-spiral classifier has been granted the National Utility Model Patent (Patent No.: ZL201821186100.8), highlighting the product's leading advantages in design and innovation.

PRODUCTS AND EQUIPMENT

产品设备

搅拌槽 Agitation Tank



我公司专业提供覆盖全流程的搅拌设备，包括药剂、矿浆、高浓度、强力、缓冲、锥底、提升及擦洗型搅拌槽与砂磨机。基于深厚的定制研发能力，我们成功开发出多种高效专用叶轮，并获得国家专利。有效解决了非金属矿磨损沉降等行业难题。这些创新成果显著提升了产品的适用性、附加值与可靠性，并获得了客户的高度认可。

Our company specializes in delivering a comprehensive range of agitation equipment covering the entire process flow, including reagent, slurry, high-density, intensive, buffer, cone-bottom, lifting, and scrubbing agitation tanks as well as sand mills. Based on the profound customized R&D capabilities, we have successfully developed a variety of high-efficiency specialized impellers, which have been granted national patents. These innovations effectively address industry challenges such as wear and sedimentation in non-metallic minerals, thus significantly improving the product applicability, added value, and reliability, earning high recognition from our clients.



颞式破碎机 Jaw Crusher

颞式破碎机，是借鉴国际先进技术研发的新型高效液压调控颞式破碎机。设备采用先进V型破碎腔结构、全新机架与动颞结构，并配备液压调节及集中自动润滑系统，大幅提升整机性能，同时优化操作体验，便于日常维护保养。

The jaw crusher is a new type of high-efficiency hydraulically adjusted jaw crusher developed by drawing on advanced international technology. The equipment adopts an advanced V-shaped crushing chamber structure, a completely new frame and moving jaw design, and is equipped with a hydraulic adjustment and centralized automatic lubrication system. This substantially enhances overall machine performance while optimizing the operating experience and facilitating routine maintenance.

液压圆锥破碎机 Cylinder Hydraulic Cone Crusher

金鹏液压圆锥破碎机是引进国际最新技术而开发的具有世界先进水平的高性能圆锥破碎机，该破碎机突破以往的圆锥破结构设计理念，并运用层压破碎原理，显著的提升了破碎能力和产品质量。配套设计的液压润滑系统，不但保证了设备的可靠运转，还大大减少了时间和人力的投入。广泛应用于矿山矿石破碎、高硬度岩石物料破碎、建筑物料破碎、水泥、砂石制造等行业。

The Jinpeng Hydraulic Cone Crusher is a high-performance cone crusher developed by incorporating the latest international technology, achieving world-advanced standards. Breaking away from conventional cone crusher structural design concepts, it applies the principle of inter-particle laminating crushing, significantly enhancing crushing capacity and product quality. The matching hydraulic lubrication system not only ensures reliable equipment operation but also greatly reduces the investment of time and labor. It is widely used in mine ore crushing, high-hardness rock material crushing, building material crushing, cement, sand and aggregate production, and other industries.

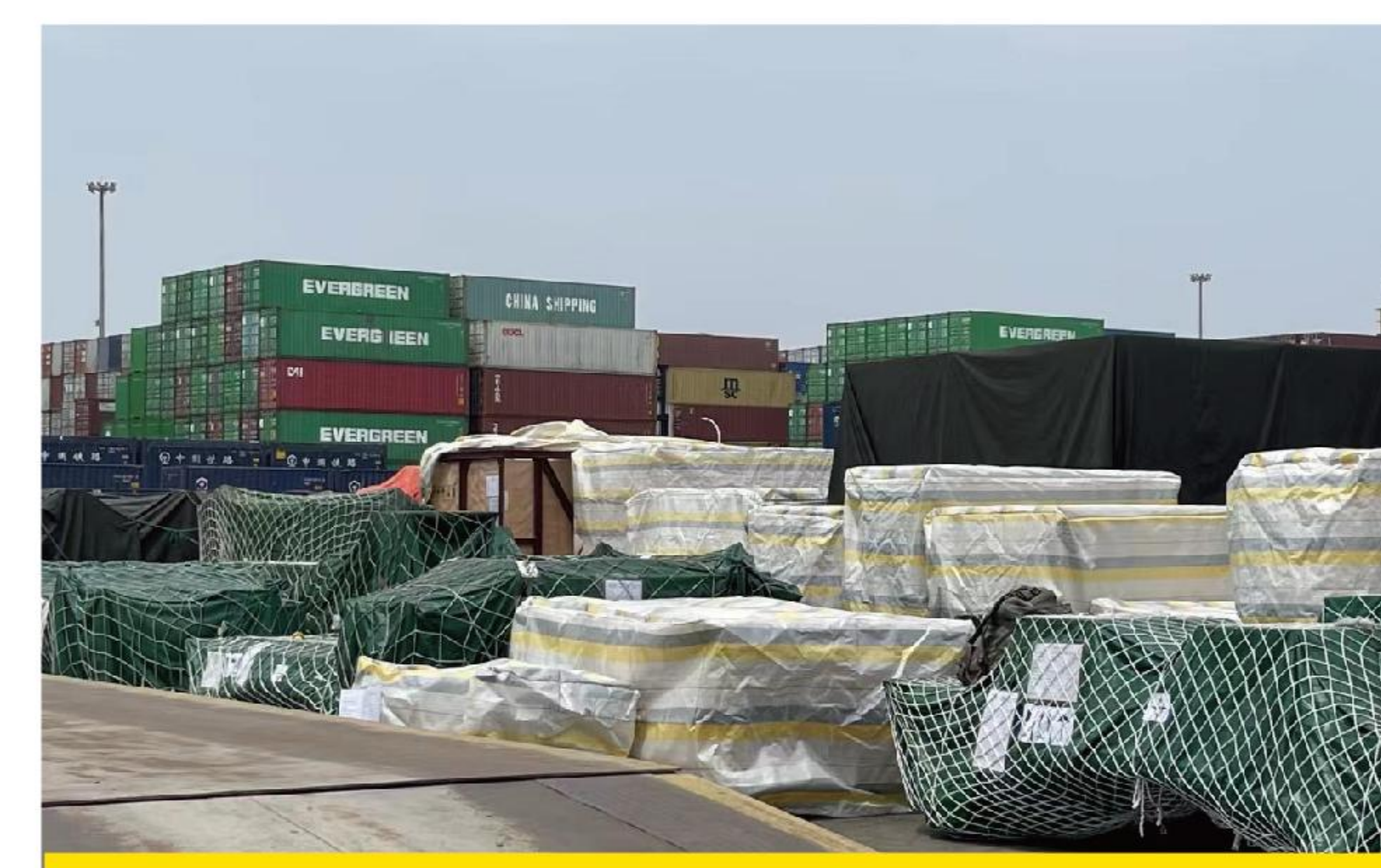


EQUIPMENT SHIPMENT

设备发货

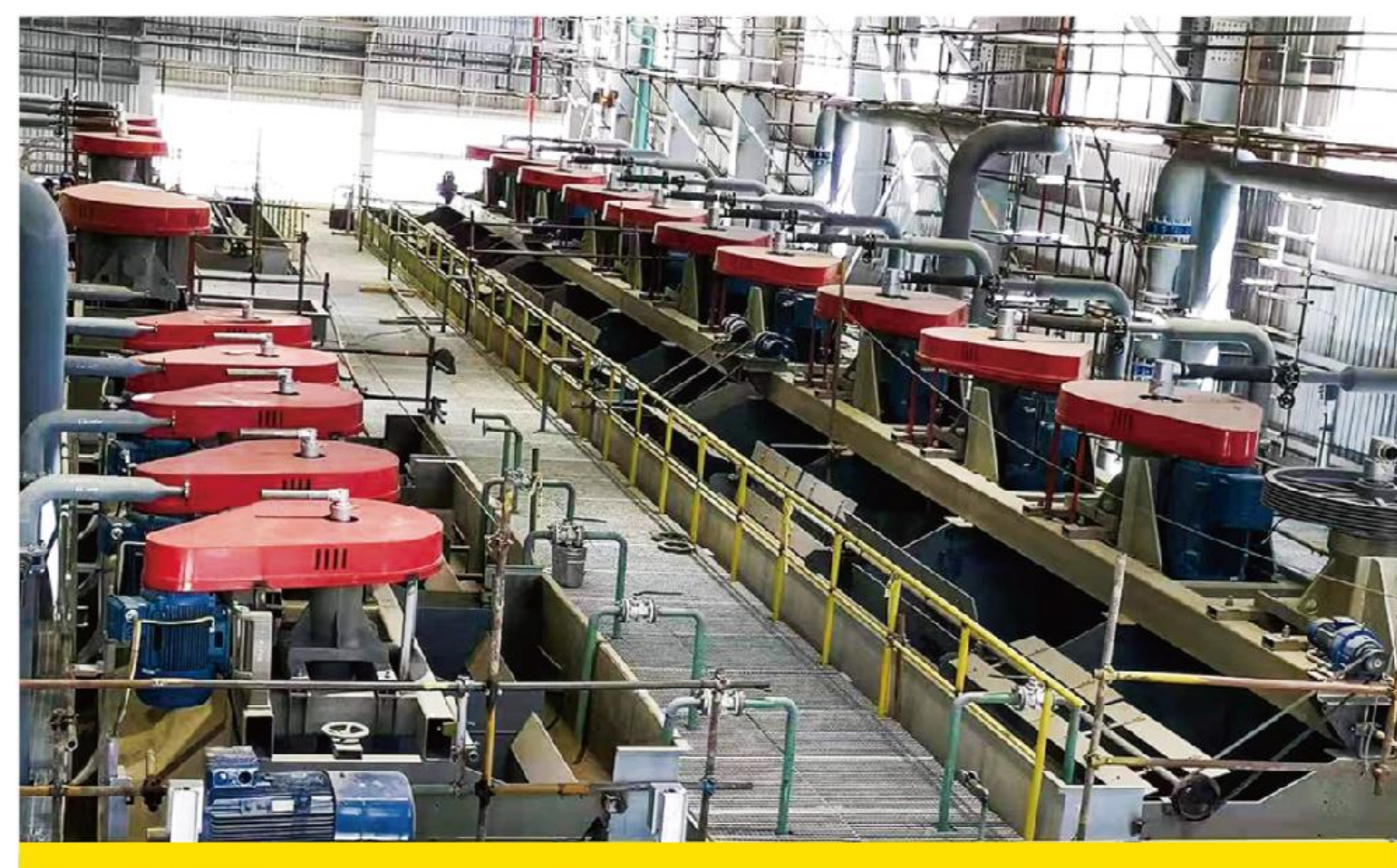
为确保设备安全运抵用户现场，金鹏集团建立了完善的包装与发运管理体系。由专业工程技术人员根据货物尺寸、重量、防潮及吊装要求制定包装方案和发货明细，并采用三维模拟进行排车排柜。专业包装人员依方案进行打包，使用防水膜、热缩膜及篷布加网格罩等方式防雨防蚀防撞。包装形式包括裸装、箱装、托盘装、捆装和笼装等，以适应不同货物和运输需求。物流人员严格按排车图和发货明细装车装柜，杜绝错发漏发。

To ensure the safe delivery of equipment to customer's sites, Jinpeng Group has established a comprehensive packaging and shipping management system. Professional engineering technicians develop packaging plans and delivery details based on the dimensions, weight, moisture-proof requirements, and hoisting needs of the goods, as well as utilize 3D simulation for truck and container layout. The special packaging personnel carry out packing according to the plans, employing methods such as waterproof film, shrink wrap, and tarpaulin with mesh covers to prevent rain, corrosion, and impact. Packing forms include naked, box, pallet, bundle, cage and so on to accommodate different types of goods and transportation needs. Logistics staff strictly follow the truck layout and delivery details for loading to avoid goods missending and missing.





EQUIPMENT ON SITE 设备使用现场II



COMMISSIONING COMPANY 安装调试公司

金鹏下设工程管理部、售后服务部，针对具体工程，组建安装项目部，负责组织实施选矿厂建设施工，业务骨干均为从事过选厂建设管理十年以上的经验丰富的土建工程师、机械工程师、选矿工程师、电气工程师、自动化工程师等，专业涵盖选矿厂建设安装、生产调试的所有门类。截至目前，金鹏安装团队已在世界八十多个国家，完成数百座矿山选厂建设，年建设项目达数十座，成功参与了塞拉利昂新唐克里里磁铁矿二期1200万TPA及三期3000万TPA工程、莫桑比克8000TPD石墨矿、内蒙古兴业集团6000TPD钼矿、印尼6000TPD金矿选厂等多个工程建设。

Jinpeng has established Engineering Management Department and After-sale Service Department. As for specific projects, it forms an installation project department responsible for organizing and implementing the construction of mineral processing plants. The backbone of the team consists of civil engineers, mechanical engineers, mineral processing engineers, electrical engineers and automation engineers with more than ten years of experience in construction management of mineral processing plants, covering all categories of construction and installation, manufacturing and commissioning of mineral processing plants. So far, the Jinpeng installation team has completed the construction for hundreds of mineral processing plants in more than seventy countries around the world, with dozens of construction projects per year. They have successfully participated in the construction of multiple engineering projects, including Phase II 12 million TPA & Phase III 30 million TPA magnetite processing plant in New Tonkolili, Sierra Leone, 8000t/d graphite processing plant in Mozambique, Xingye group 6000t/d molybdenum processing plant in Inner Mongolia, 6000t/d gold processing plant in Indonesia and so on.



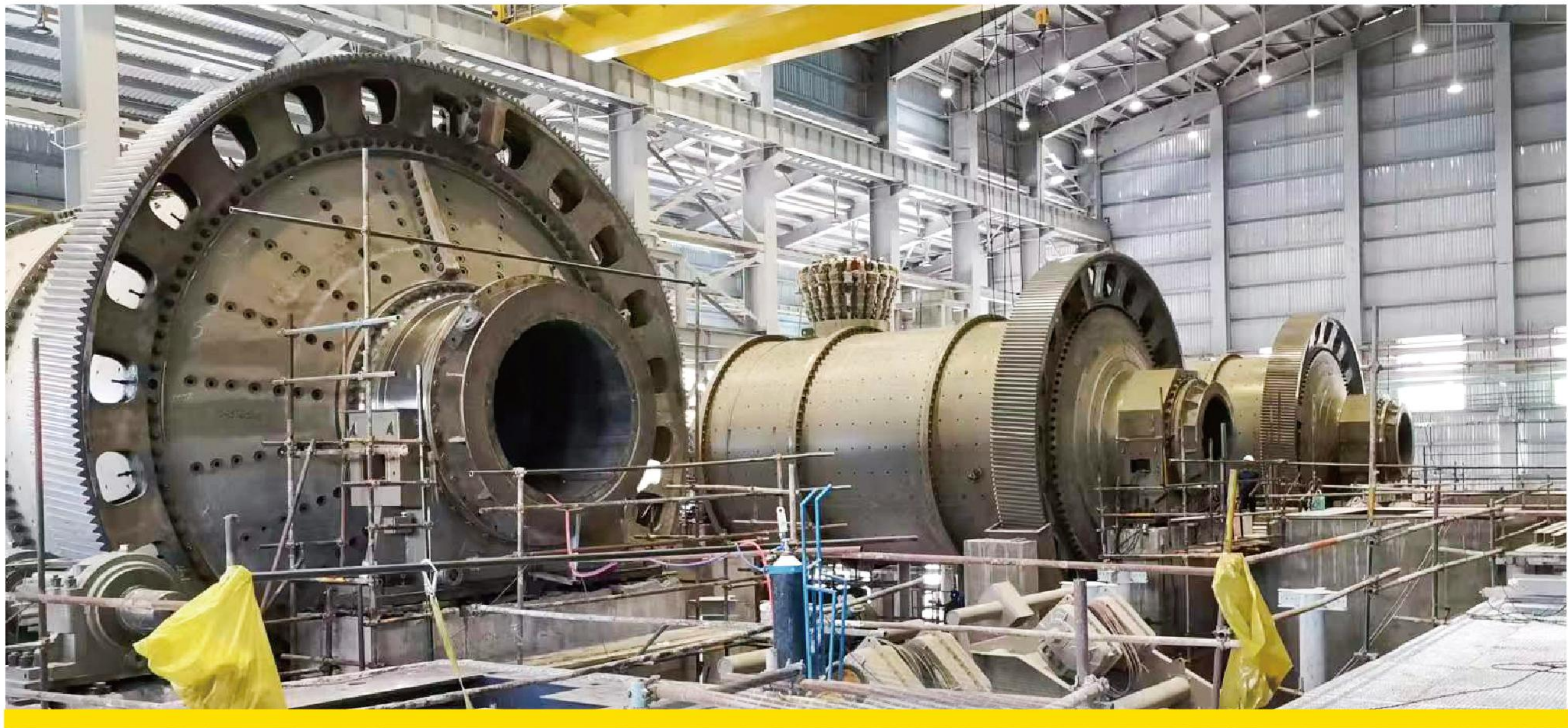
安装现场-塞拉利二期1200万TPA铁矿项目

Installation Site-12million TPA Iron Processing Plant in Sierra Leone



安装现场-印尼6000TPD金矿项目

Installation Site-6000TPD Gold Mine in Indonesia



安装现场-土耳其4000TPD铜矿项目

Installation Site-Turkey 4000TPD Copper Slag Processing Line

PIONEERING MINING INNOVATIONS SHAPING AN INTELLIGENT FUTURE 拓新矿业 智创未来



随着矿山转型升级的进行，矿山生产已由原本的粗放型生产模式转向大型化、精细化的绿色矿山生产模式。金鹏矿机凭借着先进的加工设备和雄厚的技术力量，可以为您提供一站式总包服务（选矿试验研究、矿山设计、设备制造、安装调试、人员培训）。通过专业队伍的标准管理、先进技术、精细操作，金鹏集团将矿业开发过程中的每个环节有机结合，最大限度的提高资源利用率和资源效益转化率，降低矿企运营风险，实现资源高效整合及矿企利润最大化。

As the mining industry undergoes transformation and upgrading, production has shifted from an extensive model to a large-scale, refined, and eco-friendly mining model. Leveraging advanced processing equipment and robust technological capabilities, Jinpeng Mining Machinery offers comprehensive turnkey services—including mineral processing testing, mine design, equipment manufacturing, installation & commissioning, and personnel training. Through standardized management by professional teams, cutting-edge technologies, and meticulous operations, Jinpeng Group seamlessly integrates every phase of mining development. This maximizes resource utilization efficiency and benefit conversion rates, reduces operational risks for mining enterprises, achieves efficient resource consolidation, and delivers profit maximization for mining companies.

JINPENG MINING MACHINERY – PROFESSIONAL EPC CONTRACTOR OF MINERAL PROCESSING PLANT

金鹏矿机-专业的选矿EPC总包服务商

E

**选矿试验研究
工程咨询
矿山设计**

BENEFICIATION EXPERIMENTAL RESEARCH
ENGINEERING CONSULTATION
ENGINEERING DESIGN

P

**成套设备
制造及供应**

MANUFACTURING AND SUPPLY
OF COMPLETE SETS OF EQUIPMENT

C

**选矿厂基建
设备安装
工艺调试**

CIVIL WORK
EQUIPMENT INSTALLATION
PROCESS COMMISSIONING

M

生产管理
MANAGEMENT

金鹏可为您提供前期咨询与可行性研究服务，其中包括矿物元素分析、矿山价值评估、工艺流程建议、投资估算及经济效益分析等，帮助客户明确选厂规模及建设方向。金鹏选矿研究院通过实验室试验确定矿石的最佳工艺流程及参数，涉及原矿性质测定、工艺条件探索、精尾矿分析等步骤，最终形成选矿试验报告作为设计依据。金鹏矿山设计院由澳大利亚冶金学会院士许宝华院士领衔，具备国际化的技术实力和丰富的项目经验。可按照加拿大NI43-101等国际标准进行设计，拥有20个专业近百名工程师，可为客户提供可行性研究、FEED、基础设计、详细设计、选厂3D设计、Hazop研究等。

Jinpeng can provide preliminary consulting and feasibility study services, including mineral elemental analysis, mine valuation assessment, process flow recommendations, capital expenditure estimation, and economic benefit analysis, etc., helping clients define optimal plant scale and construction direction.

Jinpeng Mineral Processing Research Institute determines the optimal process flows and parameters for ores through laboratory tests, involving raw ore property determination, process condition scoping, concentrate and tailings analysis, etc., ultimately forming mineral processing test reports as the design basis.

Jinpeng Mining Design Institute is led by Academician Xu Baohua, a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM). It possesses international technical capabilities and extensive project experience. The Institute is capable of conducting designs in accordance with international standards such as Canada NI 43-101. With 20 specialized disciplines and nearly 100 engineers, it provides clients with feasibility studies, FEED, basic design, detailed design, 3D plant design, HAZOP studies, and more.

金鹏矿机拥有五大制造厂区，装备有机器人焊接工作站、7×20米数控龙门镗铣床、10米双臂立车、8米滚齿机、80mm液压卷板机等先进的加工设备，可为各类规模的选厂提供成套装备。同时，公司具有健全严格的质量管理体系，从原材料采购、到生产加工至成品检验，每一个环节都进行严格控制，确保产品质量的一致性和稳定性。凭借着过硬的产品质量，公司在同行业内率先通过了ISO9001:2015质量管理体系认证和CE认证。

Jinpeng Mining Machinery has five major manufacturing plants, equipped with advanced processing equipment such as robot welding workstations, 7×20-meter CNC gantry type milling and boring machines, 10-meter double-arms vertical lathes, 8-meter gear hobbing machines, 80mm hydraulic plate bending machines, etc, which can provide complete sets of equipment for mineral processing plants of various scales. Meanwhile, the company has a comprehensive and strict quality management system, with strict control at every stage from raw material procurement, production processing to finished product inspection, ensuring the consistency and stability of product quality. With excellent product quality, the company has been the first in the industry to pass the ISO9001:2015 quality management system certification and CE certification.

金鹏下设工程管理部、售后服务部，针对具体工程，组建安装项目部，负责组织实施选厂建设施工，业务骨干均为从事过选厂建设管理十年以上的经验丰富的土建工程师、机械工程师、选矿工程师、电气工程师、自动化工程师等，专业涵盖选厂建设安装、生产调试的所有门类。截至目前，金鹏安装团队已在世界八十多个国家，完成数百座矿山选厂建设，年建设项目达数十座，成功参与了塞拉利昂新唐克里里磁铁矿二期1200万TPA及三期3000万TPA工程、莫桑比克8000TPD石墨矿、内蒙古兴业集团6000TPD钼矿、印尼6000TPD金矿选厂等多个工程建设。

Jinpeng has established Engineering Management Department and After-sale Service Department. As for specific projects, it forms an installation project department responsible for organizing and implementing the construction of mineral processing plants. The backbone of the team consists of civil engineers, mechanical engineers, mineral processing engineers, electrical engineers and automation engineers with more than ten years of experience in construction management of mineral processing plants, covering all categories of construction and installation, manufacturing and commissioning of mineral processing plants. So far, the Jinpeng installation team has completed the construction for hundreds of mineral processing plants in more than seventy countries around the world, with dozens of construction projects per year. They have successfully participated in the construction of multiple engineering projects, including Phase II 12 million TPA & Phase III 30 million TPA magnetite processing plant in New Tonkolili, Sierra Leone, 8000t/d graphite processing plant in Mozambique, Xingye group 6000t/d molybdenum processing plant in Inner Mongolia, 6000t/d gold processing plant in Indonesia and so on.

矿山生产管理服务是根据客户需求为客户提供选厂承包运营服务，通过派出管理团队，与业主招聘的员工一起负责选矿厂的承包运营工作，达到降本增效的目的，切实提高企业的经济效益和社会效益。

Mine Production Management Service provides contracted operation service for mineral processing plants tailored to client needs. We deploy a professional management team to work alongside staff recruited by the client, jointly responsible for the operation of the beneficiation plant. This model aims to reduce costs and improve efficiency, effectively enhancing both the economic and social benefits of the enterprise.

INNOVATION DRIVES ENDLESS PROGRESS

创新驱动 进无止境

工程实例
Engineering Example



ENGINEERING EXAMPLE

工程实例

印尼 3600 TPD 金矿 浮选、焙烧、制酸、氰化生产线 3600 t/d Gold Mine Flotation, Roasting, Acid, Cyanide Production Line in Indonesia

该矿山位于印尼，原矿由地表氧化矿和地下硫化矿混合，储量巨大，是由我公司提供选矿试验研究、工程设计、设备制造、安装指导及调试、人员培训等服务的总包项目。

该项目在项目管理上，完全按照澳大利亚矿山项目的管理模式，成立了Taskforce（项目组），囊括了设计管理、采购、进度控制、QA/QC质量、文档控制等。同时，第三方监理驻厂，对产品质量进行动态跟踪管理。

该项目处理原矿性质多样，需同时处理氧化矿和硫化矿，因此工艺流程非常复杂，包罗万象。同时包含重选工艺，硫化矿浮选工艺，氧化矿及浮选尾矿浸出工艺，焙烧及制酸工艺，焙烧产品浸出工艺，尾矿处理工艺，解吸电解以及炭再生工艺。

The mine is located in the Indonesian, the raw ore is mixed by surface oxidation ore and underground sulfide ore, with huge reserves. It is a general contract project provided by our company to provide beneficiation test research, engineering design, equipment manufacturing, installation guidance and commissioning, personnel training and other services.

In terms of project management, the project set up a Taskforce (project team) in full accordance with the management mode of Australian mine projects, including design management, procurement, schedule control, QA/QC quality, document control, etc. At the same time, a third-party supervisor is stationed in the factory to conduct dynamic tracking and management of product quality.

The project deals with various raw ore properties, and needs to deal with oxidized ore and sulfide ore at the same time, so the process is very complex and all-encompassing. At the same time, it includes gravity separation process, sulfide ore flotation process, oxidation ore and flotation tailings leaching process, roasting and acid production process, roasting product leaching process, tailings treatment process, desorption electrolysis and carbon regeneration process.



印度尼西亚6000 TPD 金矿CIL 6000 TPD Gold Processing Plant in Indonesia

建设内容:金矿炭浆厂总包工程
建设规模:6000t/d
建设地点:印度尼西亚
承担工作:试验研究、可行性研究报告、初步设计、施工图设计、设备供应、安装调试、人员培训。

Construction Project: Gold CIL Plant EPC Project
Construction Scale: 6000t/d
Construction Location: Indonesia
Work Scope: Test Research, Feasibility Study Report, Preliminary Design, Construction Drawing Design, Equipment Supply, Installation & Commissioning, Personnel Training

该项目主要工艺流程为:
碎磨采用粗碎+半自磨+球磨+顽石破碎流程 (SABC) ; 浸出吸附采用四段预浸, 六段浸出吸附流程, 采用富氧浸出, 由专门的制氧站供氧气, 并在浸出槽中设置高效曝气装置, 有效提高浸出率; 载金炭从第一台浸出吸附槽由提炭泵提出, 洗净后进入常温常压解吸电解作业得到金泥; 冶炼采用酸洗除杂、烘干熔炼得到成品金锭; 浸出吸附尾矿进入特有的氰化钠回收工艺, 有效回收氰化钠, 节省药剂用量; 尾矿经厢式压滤机压滤, 滤饼经由皮带运输机运出厂房外堆存, 滤液泵至回水池后循环使用。整个流程采用西门子DCS系统进行全自动化连续过程控制, 实现精确调节, 有效进行集中管理和分散控制。

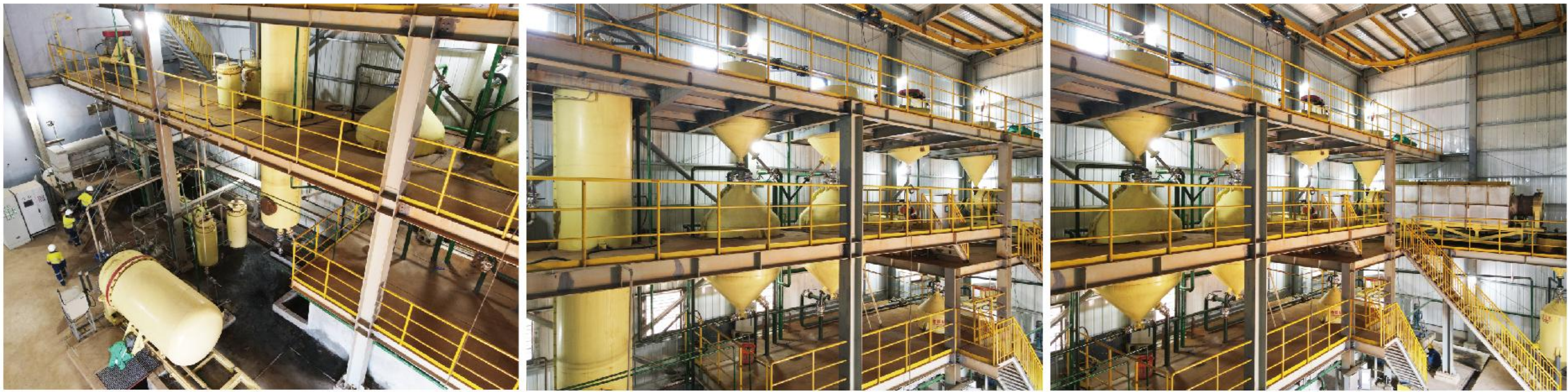
Key Process Flow:
Crushing & Grinding primary crushing+SAG mill+ball mill+hard rock crushing process (SABC); CIL Circuit: four-stage pre-leaching is followed by six-stage leaching and adsorption process, operated under oxygen-enriched condition. Oxygen is supplied by a specialized oxygen generation station and dispersed via high-efficiency aeration devices installed in leach tanks, giving a marked increase in the leaching rate;
Carbon Treatment: the gold-loaded carbon is lifted by a carbon lifting pump from the first CIL tank, washed, then forwarded to the atmospheric-temperature & atmospheric-pressure elution and electrowinning system to produce gold mud;
Smelting: pickling is adopted to remove impurities, dried and smelted to obtain the finished gold ingots;
Tailings Treatment: the CIL tailings are routed to a proprietary NaCN recovery circuit, effectively recovering NaCN and decreasing the reagent consumption. The detoxified tailings is then dewatered in the filter press, the filter cake is conveyed outside the plant for stockpile by belt conveyor; while the filtrate is pumped to a process water tank for cycle use; the entire process is controlled by a Siemens DCS system, enabling fully automated and continuous operation with precise set-point adjustment, effectively realizing the centralized management and decentralized control.



尼日利亚 75万 TPA 金矿 CIL Nigeria 750,000TPA Gold CIL Plant

尼日利亚Segilola金矿项目位于尼日利亚Osun州，年处理量为75万吨的金矿炭浆厂,是由加拿大公司在尼日利亚Osun州合法建设的金矿工程。该项目由北方国际合作控股有限公司总承包，由金鹏集团东方冶金设计院承接项目设计，金鹏集团机械公司承接设备制造以及现场安装工程，已于2021年9月正式投产。项目破碎和磨矿流程采用粗碎+SAB工艺流程,选别流程采用全泥氰化炭浆+解吸电解和冶炼，整个流程采用全自动化控制，最终产品为99.9%的金锭。

Nigeria Segilola Gold project is located in Osun State, Nigeria, for the annual processing of 750,000 tons of gold coal pulp plant, is a Canadian company in Osun State, Nigeria legal construction of the gold project. The project is general contracted by North International Cooperation Holding Co., LTD. Jinpeng Group Oriental Metallurgical Design Institute undertakes project design, Jinpeng Group Machinery Company undertakes equipment manufacturing and site installation engineering, and has been officially put into production in September 2021. The crushing and grinding process of the project adopts coarse crushing +SAB process, and the sorting process adopts all-slime cyaniding carbon pulp + desorption electrolysis and smelting. The whole process adopts fully automatic control, and the final product is 99.9% gold ingot.



蒙古900万TPA堆浸项目

9 Million TPA Heap Leach Plant in Mongolia

建设内容:堆浸项目
建设规模:900万TPA
建设地点:蒙古
承担工作:矿实验研究、工程设计、设备制造、安装调试、人员培训。

Construction Project: Heap Leaching Project
Construction Scale: 9 million TPA
Construction Location: Mongolia
Work Scope: Ore experimental research, engineering design, equipment manufacturing, installation and commissioning, and personnel training.

针对该项目的极端条件，我们从工艺与工程两大维度实现了创新突破：

工艺创新：将吸附槽结构由锥形筛式优化为泡罩式，吸附率提升8%，维护周期从每月一次延长至每季度一次，大幅提高了系统运行的连续性与效率。

工程创新：成功攻克零下30℃至零下40℃的极寒环境挑战。我们制定了严格的低温制造、运输及仓储规范，确保设备在极端气候下的可靠性；同时，项目团队凭借专业精神与顽强毅力，全程驻守现场，保障了工程的顺利推进。

In response to the extreme conditions of this project, we have achieved breakthrough innovations in both process and engineering:

Process innovation: By optimizing the adsorption tank structure from a conical screen type to a bubble cap type, the adsorption rate has been increased by 8%, and the maintenance interval has been extended from once a month to once per quarter, significantly improving the continuity and efficiency of system operation.

Engineering innovation: We successfully overcame the challenge of extreme cold temperatures ranging from -30°C to -40°C. We established strict low-temperature manufacturing, transportation, and storage specifications to ensure equipment reliability under harsh climatic conditions. At the same time, our project team, with professionalism and tenacity, remained on-site throughout the process, ensuring the smooth progress of the project.



塞拉利昂二期1200万TPA&三期3000万TPA铁矿选厂

12 million TPA (Phase 2) & 30 million TPA (Phase 3) Iron Processing Plant in Sierra Leone

新唐克里里铁矿项目是中塞两国重点合作项目，由利昂洛克金属集团在塞拉利昂北方省运营。项目占地408平方公里，资源储量约137亿吨，属世界级超大型单体磁铁矿。

我司承建的二期工程为1200万吨/年选矿厂，主要处理过渡层铁矿，于2024年5月10日实现主体竣工，并于同年9月10日顺利完成首采。三期工程规划建设3000万吨/年磁铁矿选矿厂，其一序列工程已于2025年4月15日竣工，目前二序列工程正在稳步推进。全面投产后，预计年处理原矿3000万吨，年产66%品位铁精矿1000万吨，最终将建成集采、选、冶炼于一体的钢铁工业园区。

本项目涵盖粗碎站、高压辊磨、筛分、重选、磨磁、尾矿处理及全流程自动化控制系统，机电设备安装工程量、技术集成度高。面对当地雨季漫长、物流不便等挑战，我司凭借专业的施工能力，确保了设备安装精度与工程进度，助力该项目成为中资企业在非洲实施的又一标杆工程。

The New Tonkolili Iron Processing Plant is a key cooperation project between China and Sierra Leone, operated by Leone Rock Metal Group in the Northern Province of Sierra Leone. Covering an area of 408 square kilometers with estimated resources of approximately 13.7 billion tons, it is a world-class super-large single magnetite deposit.

The Phase II project constructed by our company is a 12 million tons/year mineral processing plant, primarily treating iron mineral in the transition layer. The main construction was completed on May 10, 2024, and initial mining successfully commenced on September 10 of the same year. The Phase III project is scheduled to build a 30 million tons/year magnetite processing plant. The first sequence of Phase III was completed on April 15, 2025, and the second sequence is currently progressing steadily. Upon full production, the project is expected to process 30 million tons of raw ore annually and produce 10 million tons iron concentrate with grade of 66%. Ultimately, it will be developed into a steel & iron industrial park, integrating mining, processing, and smelting.

The project encompasses a primary crushing station, high-pressure grinding rolls (HPGR), screening, gravity separation, grinding-magnetic separation, tailings processing, and a fully-process automated control system. It involves substantial mechanical and electrical equipment installation with a high degree of technical integration. Facing challenges such as the long rainy season and logistical constraints locally, our company gives full play to its professional construction capabilities to ensure equipment installation precision and project schedule, contributing to another benchmark project implemented by a Chinese enterprise in Africa.



3000TPD Lithium Processing Plant in Zimbabwe

Owner: Sichuan Shengyuan New Energy International Trade Co., LTD

Construction Project: Equipment Supply and Installation for Sabi Star Spodumene Processing Plant

Construction Scale: 3000t/d

Construction Location: Manicaland Province, Zimbabwe

Construction Date: 2022

Commissioning Date: 2023

Work Scope: Equipment Supply, Installation & Commissioning, Personnel Training

Key Process Flow: adopts three-stage closed-circuit crushing and single-stage closed-circuit grinding process, the grinding fineness is -200 mesh accounting for about 70%; After iron removal of the raw ore, the underflow advances to flotation operation which involves two roughing, two scavenging and three cleaning flotation; the flotation concentrate is upgraded by high-intensity magnetic separation (HIMS) to produce final spodumene concentrate, which is then dewatered; the HIMS tailings are treated by two-stage gravity separation to recover tantalum and niobium, flotation tailings are pumped to the tailings storage facility (TSF).

Main Process Index: raw ore grade 1.5-1.9%; concentrate grade $\geq 5\%$; recovery rate 88-90%



津巴布韦3000TPD锂矿选厂

业主：四川盛远新能国际贸易有限公司

建设内容：萨比星锂辉石矿选厂设备供应及安装

建设规模：3000t/d

建设地点：津巴布韦国马尼卡兰省

建设日期：2022年

投产日期：2023年

承担工作：设备供应、设备安装调试、人员培训。

主要工艺流程：采用三段闭路破碎，一段闭路磨矿流程，磨矿细度为-200目占70%左右，原矿除铁后底流进入浮选作业，浮选采用两次粗选、两次扫选、三次精选工艺流程，浮选精矿进入强磁作业，锂精矿进入脱水流程，强磁尾矿进入两段重选选出钽铌，浮选尾矿打入尾矿库

主要工艺指标：原矿品位1.5-1.9%，精矿品位： $\geq 5\%$ ，回收率：88-90%



3600t/d Spodumene Processing Plant in Tangshan City

Construction Site: Fengnan District, Tangshan, Hebei Province

Construction Date: 2017

Production Date: 2018

Responsibilities: Test Study, Feasibility Study Report, Preliminary Design, Construction Drawing Design, Equipment Supply, Installation and Commissioning, Personnel Training.

Main Process Flow: A one-stage closed-circuit grinding process is adopted, and the fineness of the grinding is 52% of -200 mesh. The bottom flow enters the flotation operation after iron and mud removal from the raw ore. The flotation process adopts one roughing, two sweeping and three cleaning processes, and the flotation concentrate enters the strong magnetic operation. Dehydrated concentrate is stockpiled for sale.

Main Process Index: raw ore grade 1.4%

Concentrate Grade: ≥5%

Recovery Rate: 65-70%

Project Features: The nature of imported Australian ore is complex, iron and mud content is high, our company in the process design and production operation, control desliming and strong magnetic pair yield and The influence of taste has accumulated a wealth of experience.

唐山3600t/d锂矿选厂

建设地点: 河北唐山丰南区

建设日期: 2017年

投产日期: 2018年

承担工作: 试验研究、可行性研究报告、初步设计、施工图设计、设备供应、安装调试、人员培训。

主要工艺流程: 采用一段闭路磨矿流程，磨矿细度为-200目占52%，原矿除铁脱泥后底流进入浮选作业，浮选采用一次粗选、两次扫选、三次精选工艺流程，浮选精矿进入强磁作业，浮选尾矿即为长石精矿经过一粗一扫两段强磁作业，锂精矿和长石精矿采用两段脱水流程，脱水后精矿堆存待售。

主要工艺指标: 原矿品位1.4%，精矿品位：≥5%，回收率：65-70%

项目特点: 进口澳大利亚矿石性质复杂，含铁含泥量高，我公司在工艺流程设计和生产操作中，把控脱泥和强磁对产率和品位的影响，积累了丰富的经验。



津巴布韦一期1000TPD&二期6000TPD锂矿选厂

1,000 TPD (Phase 1) & 6,000 TPD (Phase 2) Lithium Processing Plant in Zimbabwe

业 主: Kamativi Mining Company(Private)Limited
建设内容: 卡马蒂维锂辉石选厂总包工程
建设规模: 1000t/d & 6000t/d
建设地点: 津巴布韦国北马塔贝莱省
建设日期: 2023年
投产日期: 2023年
承担工作: 施工图设计、设备及自动化控制供应、安装调试、人员培训。

Owner: Kamativi Mining Company (Private) Limited
Scope of Work: Kamativi Spodumene Concentrator EPC Project
Capacity: 1,000 tpd & 6,000 tpd
Location: Matabeleland North Province, Zimbabwe
Construction Start: 2023
Commissioning Date: 2023
Services Provided: Detailed engineering design, equipment and automation control system supply, installation and commissioning, personnel training.

主要工艺流程:
采用两段闭路破碎与一段闭路磨矿工艺, 磨矿细度控制为-200目占比62%。原矿经除铁处理后, 其底流进入三段脱泥作业。脱泥沉砂进入磷锂铝石浮选回路, 经一次粗选、一次扫选、一次精选产出磷锂铝石产品并堆存。浮选尾矿转入锂辉石浮选回路, 采用一次粗选、两次扫选、三次精选流程。锂辉石精矿进入脱水工序, 最终精矿产品进行装包处理; 浮选尾矿则通过泵送至尾矿库堆存。

Main Process Flowsheet:
A two-stage closed-circuit crushing and one-stage closed-circuit grinding circuit is employed, with grinding fineness controlled at 62% passing 200 mesh. Following iron removal, the underflow from the ROM ore proceeds to a three-stage desliming circuit. The desliming underflow enters the amblygonite flotation circuit, where one rougher, one scavenger, and one cleaner stage produce amblygonite concentrate for stockpiling. The flotation tailings advance to the spodumene flotation circuit, comprising one rougher, two scavenger, and three cleaner stages. Spodumene concentrate reports to the dewatering circuit, with the final concentrate product bagged for shipment. Flotation tailings are pumped to the tailings storage facility for disposal.

主要工艺指标:
原矿入选品位: 0.9%-1.2% (Li₂O)
精矿产品品位: 5% (Li₂O)

Key Process Indicators:
• ROM Feed Grade: 0.9% – 1.2% Li₂O
• Final Concentrate Grade: 5% Li₂O



赞比亚3000TPD铜浮选厂

Zambia 3000TPD Copper Flotation Plant

地点：非洲赞比亚

Location: Zambia, Africa

矿石类型：氧化物和硫化物铜矿石

Ore Type: Oxide & sulfide copper ore

破碎：三级破碎（颚+锥+锥）采用单闭式电路；

Crushing: a three-stage crushing (Jaw+Cone+Cone) operating in a single closed circuit;

磨矿：一级球磨机Φ3254，搭载1000Kw电机；

Grinding: a single-stage ball millΦ3254 driven by a 1000Kw motor;

硫化铜浮选：一次粗选一次扫选二次精选，粗选4台30m³浮选机，扫选4台30m³浮选机，一次精选3台8m³浮选机，二次精选2台8m³浮选机，出25%品位的铜精矿；

氧化铜浮选：一次粗选三次扫选二次精选，粗选5台30m³浮选机，一次扫选5台30m³浮选机，二次扫选3台30m³浮选机，一次精选3台8m³浮选机，二次精选2台8m³浮选机，出10%品位的铜精矿；

Copper Sulphide Flotation Circuit:

Flowsheet: One roughing, one scavenging, and two cleaning flotation.

Equipment Configuration:

Roughing: 4 x 30m³ flotation cells.

Scavenging: 4 x 30m³ flotation cells.

Primary Cleaning: 3 x 8m³ flotation cells.

Secondary Cleaning: 2 x 8m³ flotation cells.

Product: Produces a copper concentrate grading 25% Cu.

Copper Oxide Flotation Circuit:

Flowsheet: One roughing, three scavenging, and two cleaning flotation.

Equipment Configuration:

Roughing: 5 x 30m³ flotation cells.

Primary Scavenging: 5 x 30m³ flotation cells.

Secondary Scavenging: 3 x 30m³ flotation cells.

Primary Cleaning: 3 x 8m³ flotation cells.

Secondary Cleaning: 2 x 8m³ flotation cells.

Product: Produces a copper concentrate grading 10% Cu.



湖南12000 TPD 铅锌选矿厂

12000TPD Lead-Zinc Processing Plant in Hunan Province

建设内容：铅锌选矿厂总包工程
Construction Content: Lead and Zinc Ore Sorting Plant General Contract Project
建设规模：12000 t/d
Construction Scale: 12000t/d
建设地点：中国湖南
Construction location: Hunan, China
承担工作：试验研究、可行性研究报告、初步设计、施工图设计、设备供应、安装 调试、人员培训。
Responsibilities: Test Study, Feasibility Study Report, Preliminary Design, Construction Drawing Design, Equipment Supply, Installation and Commissioning, Personnel Training.

原矿的块度为-1000mm，破碎最终产品粒度为-20mm。破碎工艺流程为二段开路破碎+细碎前检查筛分。磨矿细度为-0.074mm占50%。磨矿细度较粗，一段闭路磨矿即能满足要求，因此，本次设计确定磨矿工艺采用一段闭路磨矿流程。试验及现场生产经验均推荐采用优先浮选工艺。本次设计确定采用先铅后锌的优先浮选工艺，铅浮选结构为一粗三精三扫，锌浮选结构为一粗三精三扫。根据精矿含水要求，铅、锌精矿为“浓缩+过滤”二段脱水流程。选矿厂排出尾矿自流进入尾矿库。

The block size of the raw ore is -1000mm, and the particle size of the crushed final product is -20mm. The crushing process is two-stage open circuit crushing + screening before fine crushing. Grinding fineness of -0.074mm accounted for 50%. The fineness of grinding is coarse, and a section of closed circuit grinding can meet the requirements. Therefore, the design determines that the grinding process adopts a section of closed circuit grinding process. The experiment and field production experience recommend the preferred flotation process. The design determines the use of first lead and then zinc priority flotation process, lead flotation structure is one coarse three fine three sweep, zinc flotation structure is one coarse three fine three sweep. According to the water content requirements of the concentrate, the lead and zinc concentrate is a two-stage dewatering process of "concentration + filtration". The tailings from the concentrator are discharged into the tailings reservoir.





塔吉克斯坦4,000t/d金矿浮选氰化冶炼
4,000t/d Gold Flotation, Cyaniding and Smelting Plant in Tajikistan



俄罗斯1,000t/d 金矿炭浆厂
1,000t/d Gold CIL Plant in Russia



俄罗斯1,500t/d 金矿炭浆厂
1,500t/d Gold CIL Plant in Russia



缅甸1,000t/d 金矿炭浆厂
1,000t/d Gold CIL Plant in Myanmar



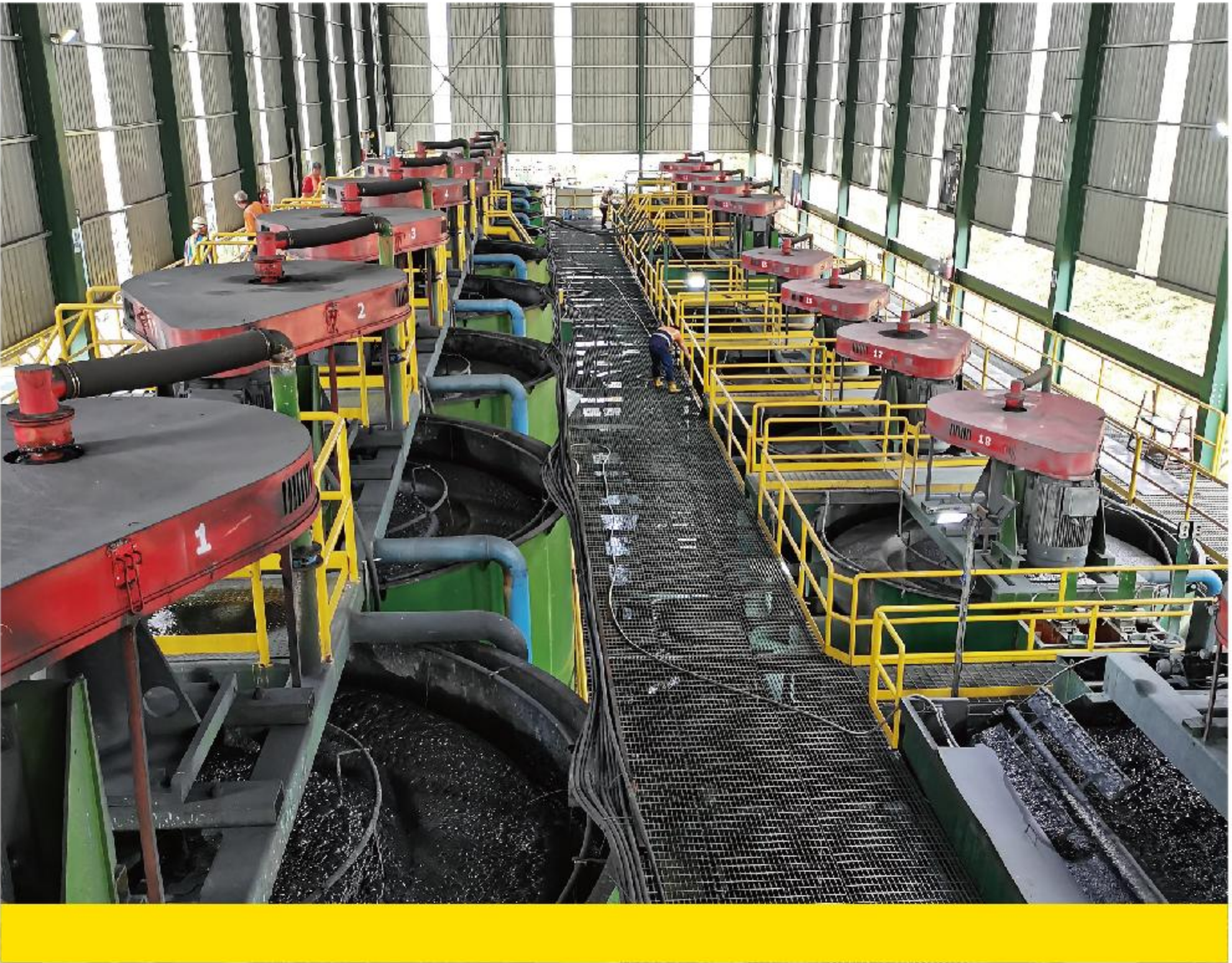
老挝 10,000t/d 金矿尾矿干排系统
Tailings Dewatering System of 10,000t/d Gold Processing Plant in Laos



马来西亚1,000t/d 金矿选厂
1,000t/d Gold processing Plant in Malaysia



马来西亚1,200t/d 金矿炭浆厂
1,200t/d Gold CIL Plant in Malaysia



马来西亚6,000t/d 金矿浮选厂
6,000t/d Gold Flotation Plant in Malaysia



湖南300t/d 金矿浮选厂
300t/d Gold Flotation Plant in Hunan Province



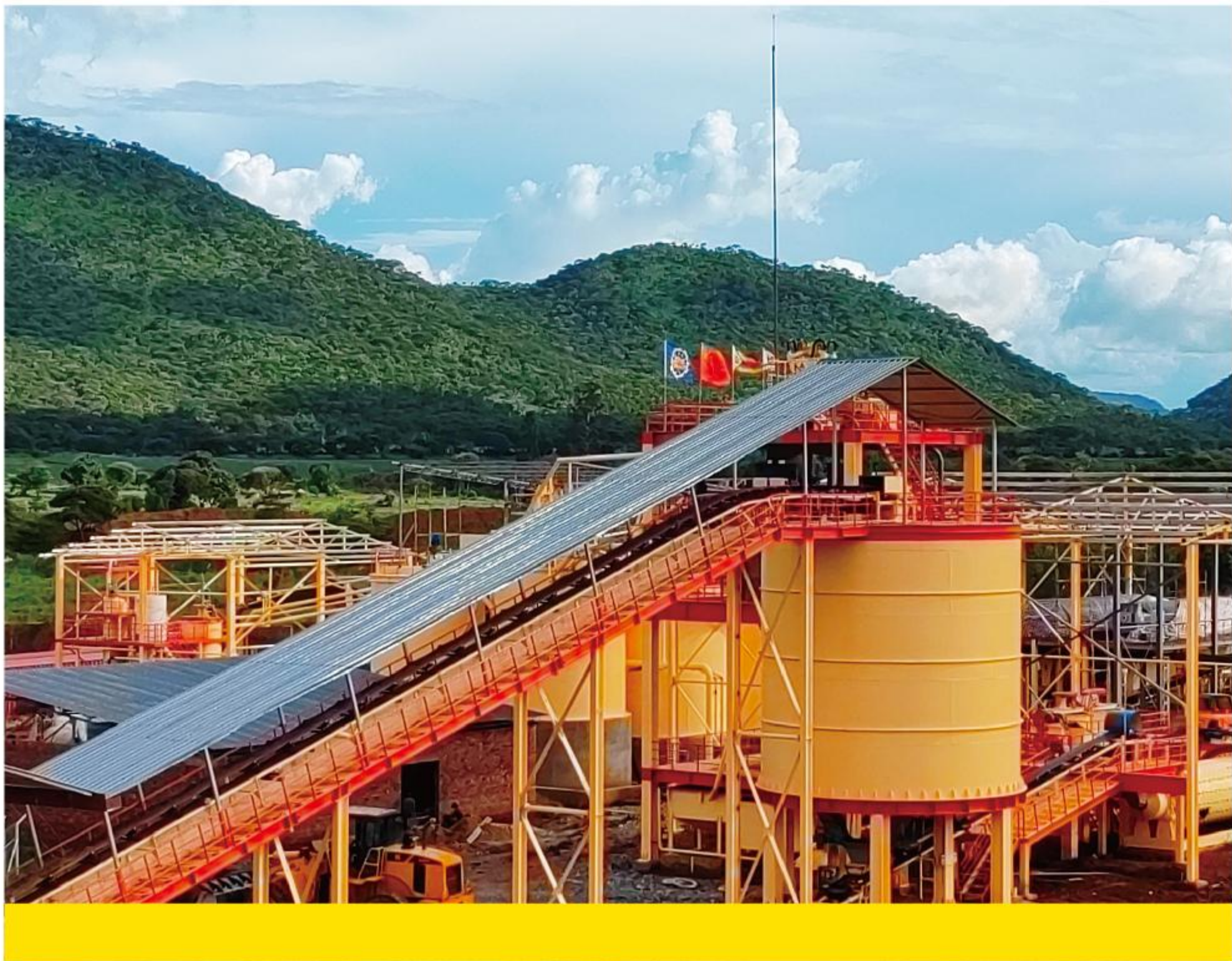
苏丹500t/d 金矿炭浆厂
500t/d Gold CIL Plant in Sudan



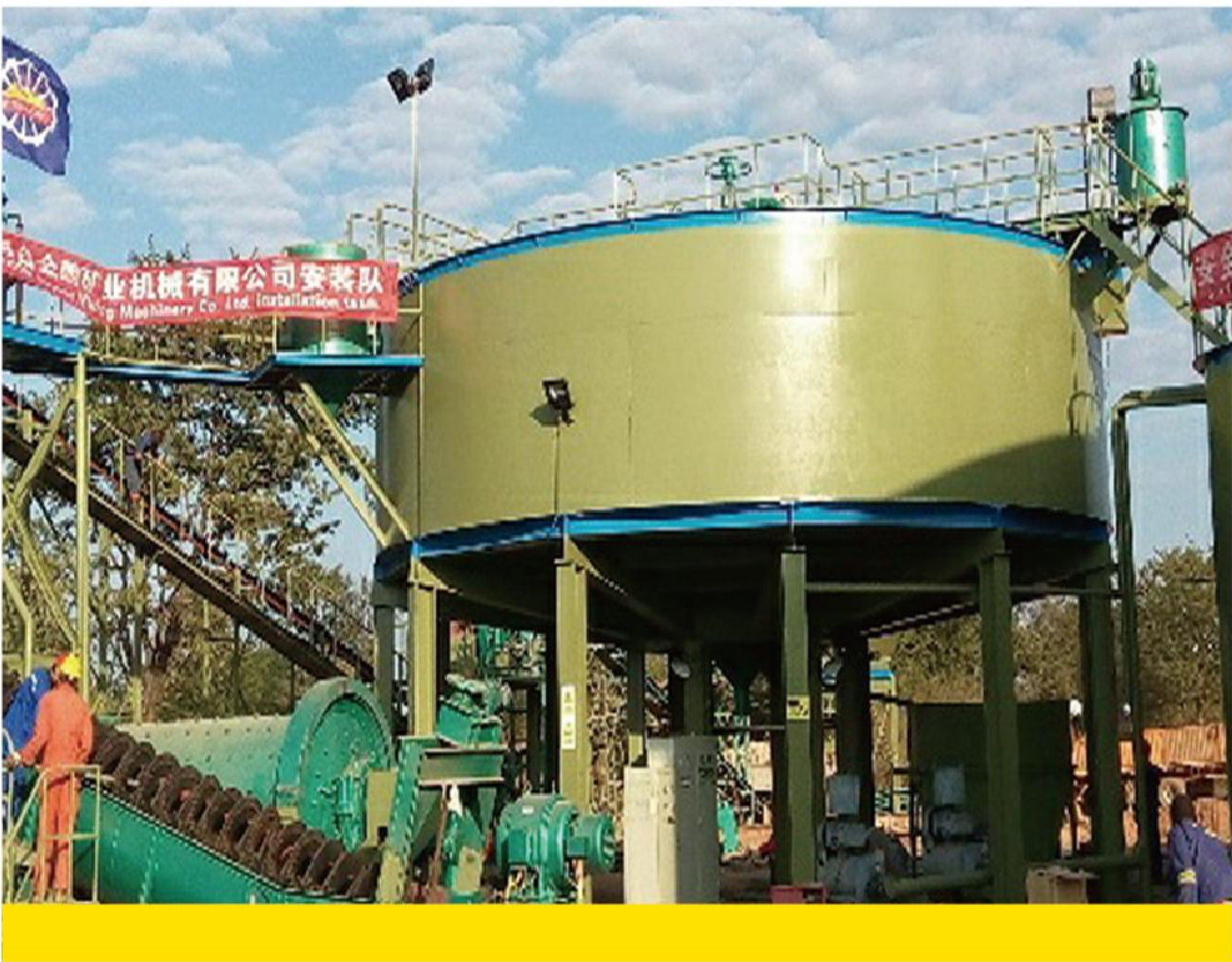
老挝500t/d 金矿炭浆厂
500t/d Gold CIL Plant in Laos



津巴布韦10,000t/d 金矿炭浆厂
10,000t/d Gold CIL Plant in Zimbabwe



津巴布韦400t/d 金矿炭浆厂
400t/d Gold CIL Plant in Zimbabwe



津巴布韦100t/d 金矿炭浆厂
100t/d Gold CIL Plant in Zimbabwe



南美洲3,600t/d 金矿炭浆厂
3,600t/d Gold CIL Plant in South America



毛利坦尼亚3,000t/d 金矿炭浆厂
3,000t/d Gold CIL Plant in Mauritania



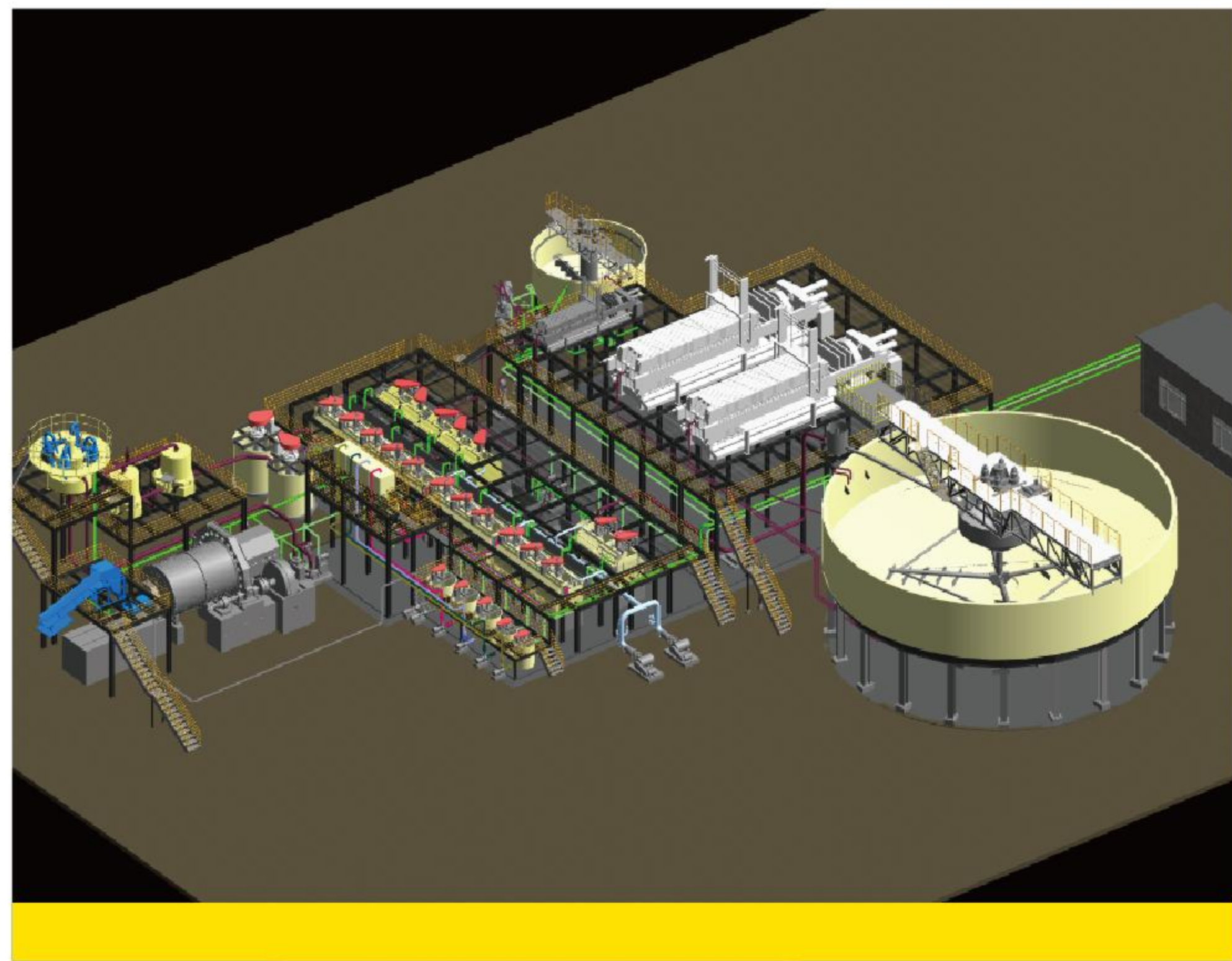
加纳30,000t/d 金矿炭浆厂
30,000t/d Gold CIL Plant in Ghana



加纳500t/d 金矿炭浆厂
500t/d Gold CIL Plant in Ghana



尼加拉瓜450t/d 金矿炭浆厂
450t/d Gold CIL Plant in Nicaragua



美国15万TPA 金矿浮选厂
150,000 TPA Gold Flotation Plant in United States



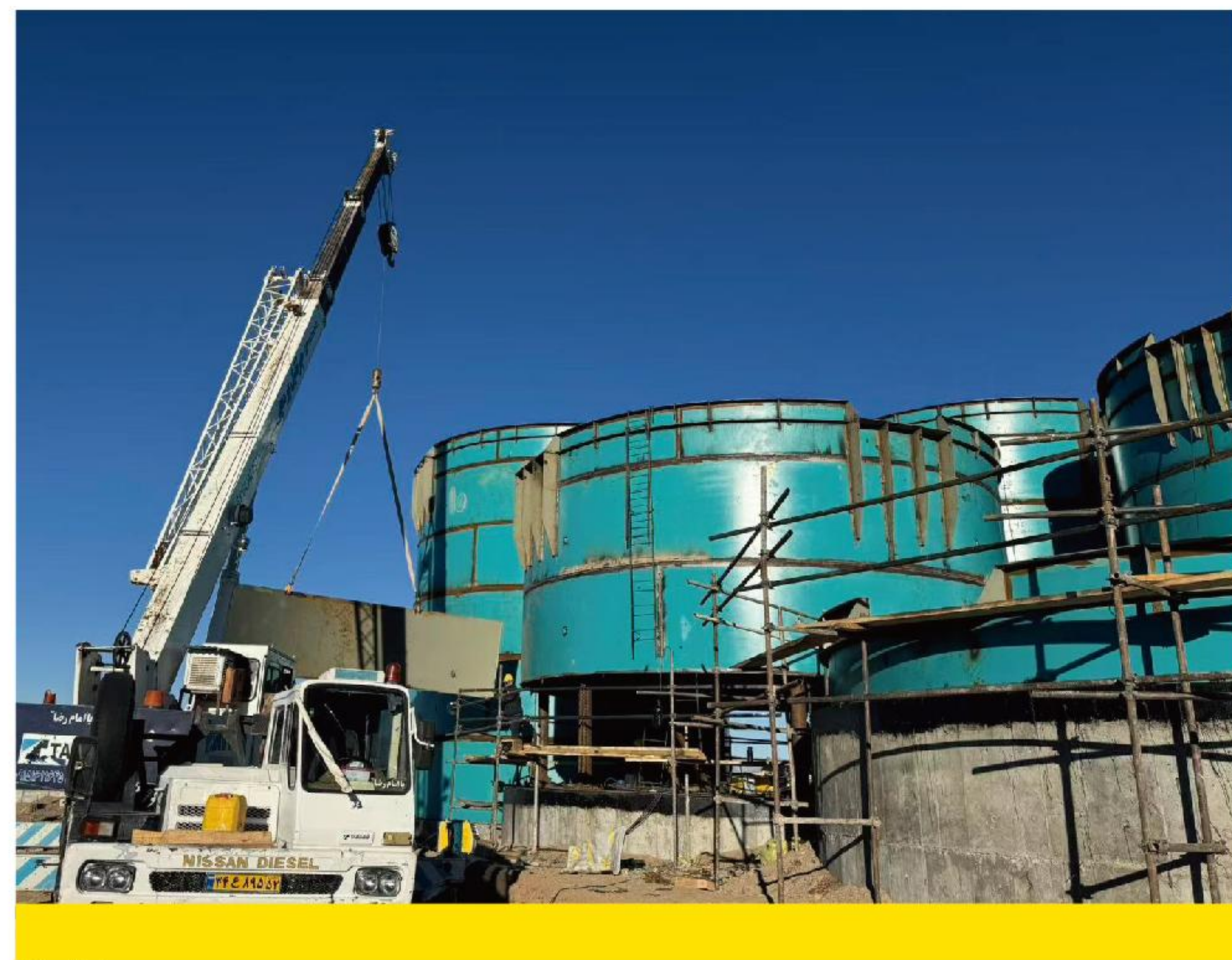
坦桑尼亚100t/d 金矿炭浆厂
100t/d Gold CIL Plant in Tanzania



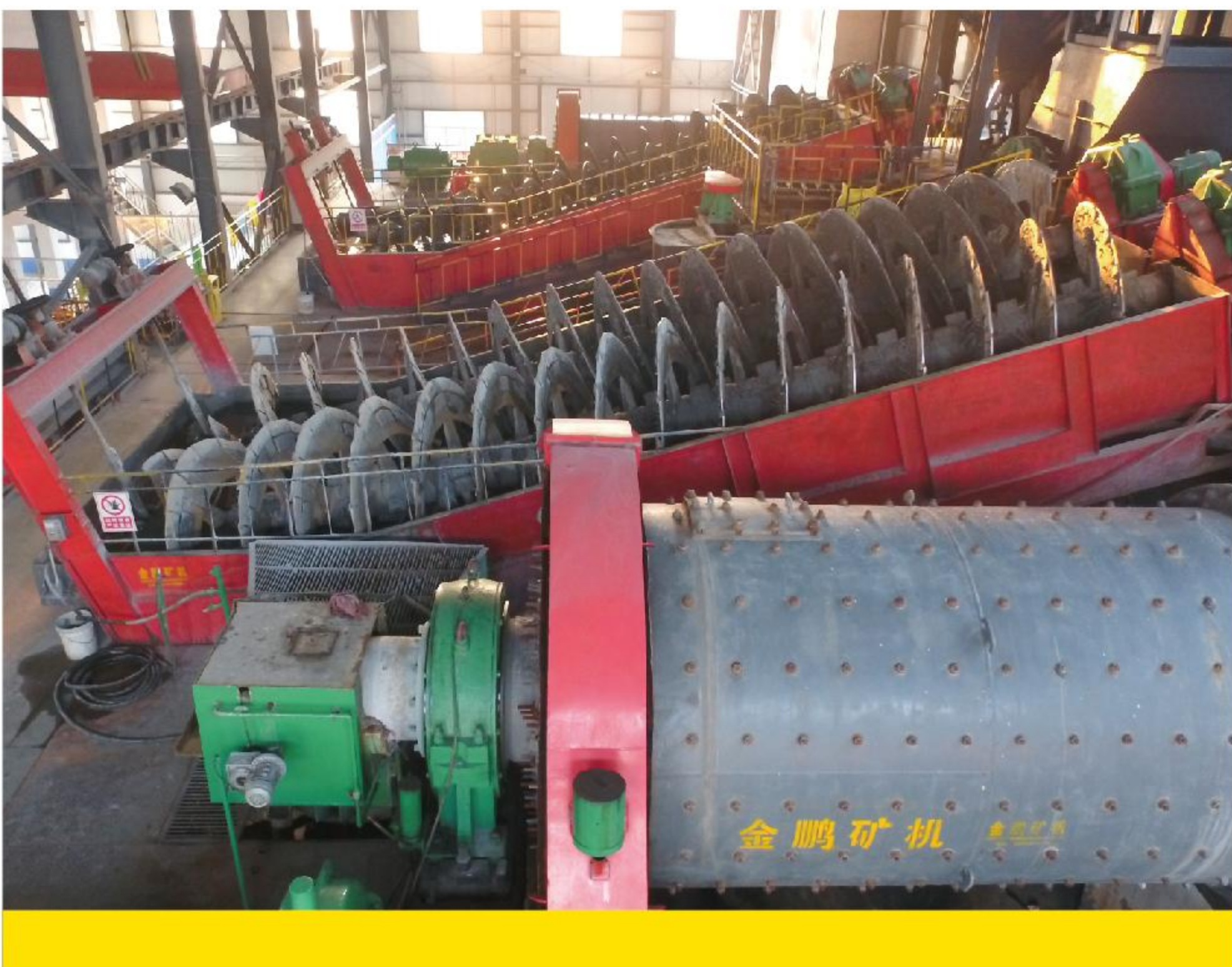
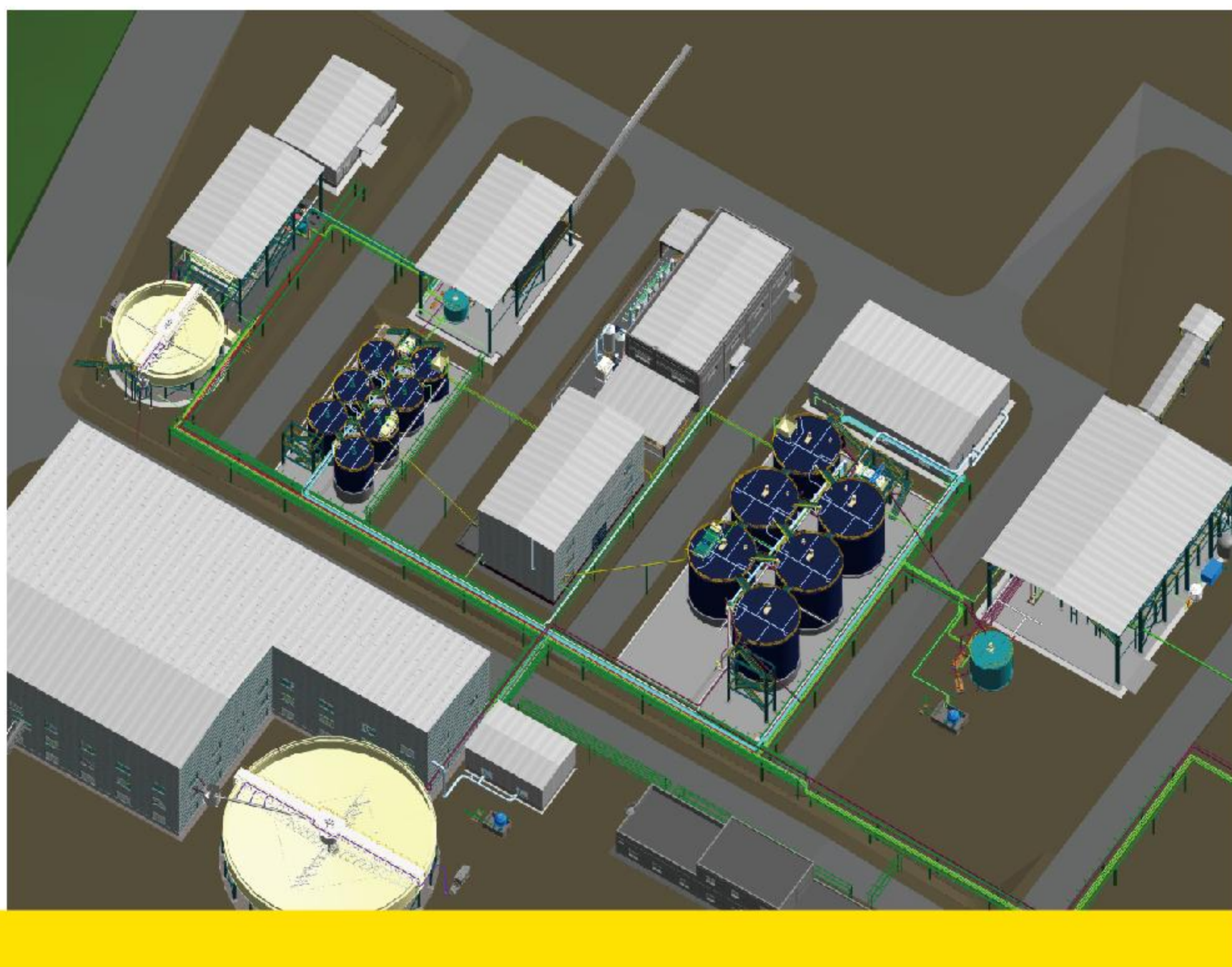
中矿金业8,000t/d 采选工程及主井井塔
Shaft Tower for 8,000t/d Zhongkuang Gold Mine



蒙古500t/d 金矿选厂
500t/d Gold Processing Plant in Mongolia



Gold
土耳其2,000t/d 金矿炭浆厂
2,000t/d Gold CIL Plant in Turkey



蓬莱大柳行1,000t/d 金矿浮选厂
1,000t/d Gold Flotation Plant in Penglai City



河北青龙1,000t/d 金矿浮选厂
1,000t/d Gold Flotation Plant in Hebei Province



厄立特里亚1,500t/d 金矿炭浆厂
1,500t/d Gold CIL Plant in Eritrea



印尼500t/d 金矿炭浆厂
500t/d Gold CIL Plant in Indonesia



海南山金1,000t/d 金矿炭浆厂
1,000t/d Gold CIL Plant in Hainan Province



四川1,000t/d 金矿浮选厂
1,000t/d Gold Flotation Plant in Sichuan Province



山东500t/d 萤石重晶石选厂
500t/d Fluorite-Barite Processing Plant in Shandong Province



江钨集团德安600t/d 锡矿选厂
600t/d Tin Processing Plant for Jiangwu Group



蒙古1,000t/d 萤石矿选厂
1,000t/d Fluorite Processing Plant in Mongolia



德国120t/d 白钨萤石矿选厂
120t/d Scheelite-Fluorite Processing Plant in Germany



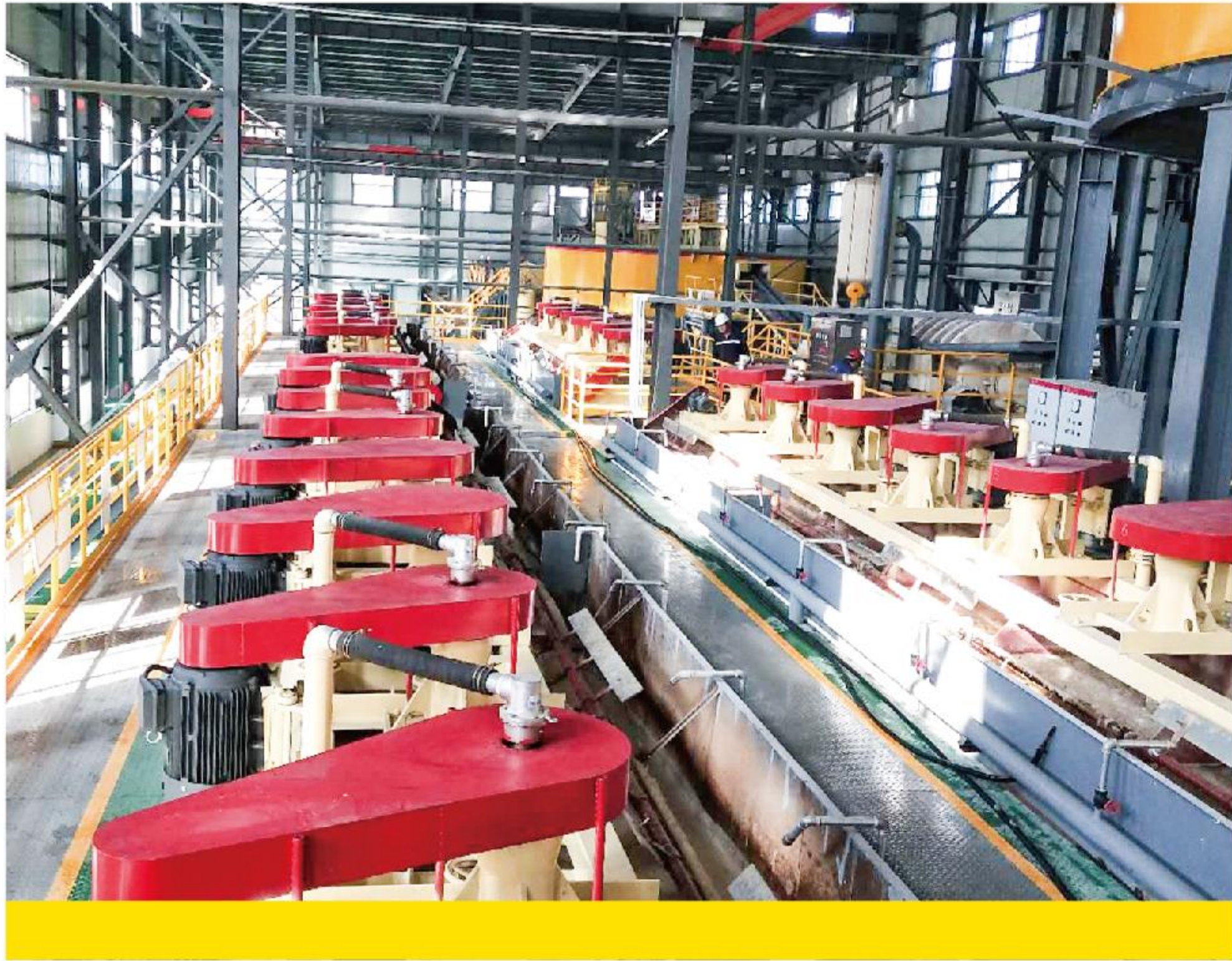
江西上饶1,000t/d 萤石矿选厂
1,000t/d Fluorite Processing Plant in Jiangxi Province



陕西750t/d 萤石矿选厂
750t/d Flourite Processing Plant in ShanXi Province



尼加拉瓜1000t/d 铜铅矿选厂
1000 t/d Copper-Lead Processing Plant in Nicaragua



辽宁500t/d 萤石矿选厂
500t/d Fluorite Processing Plant in Liaoning Province

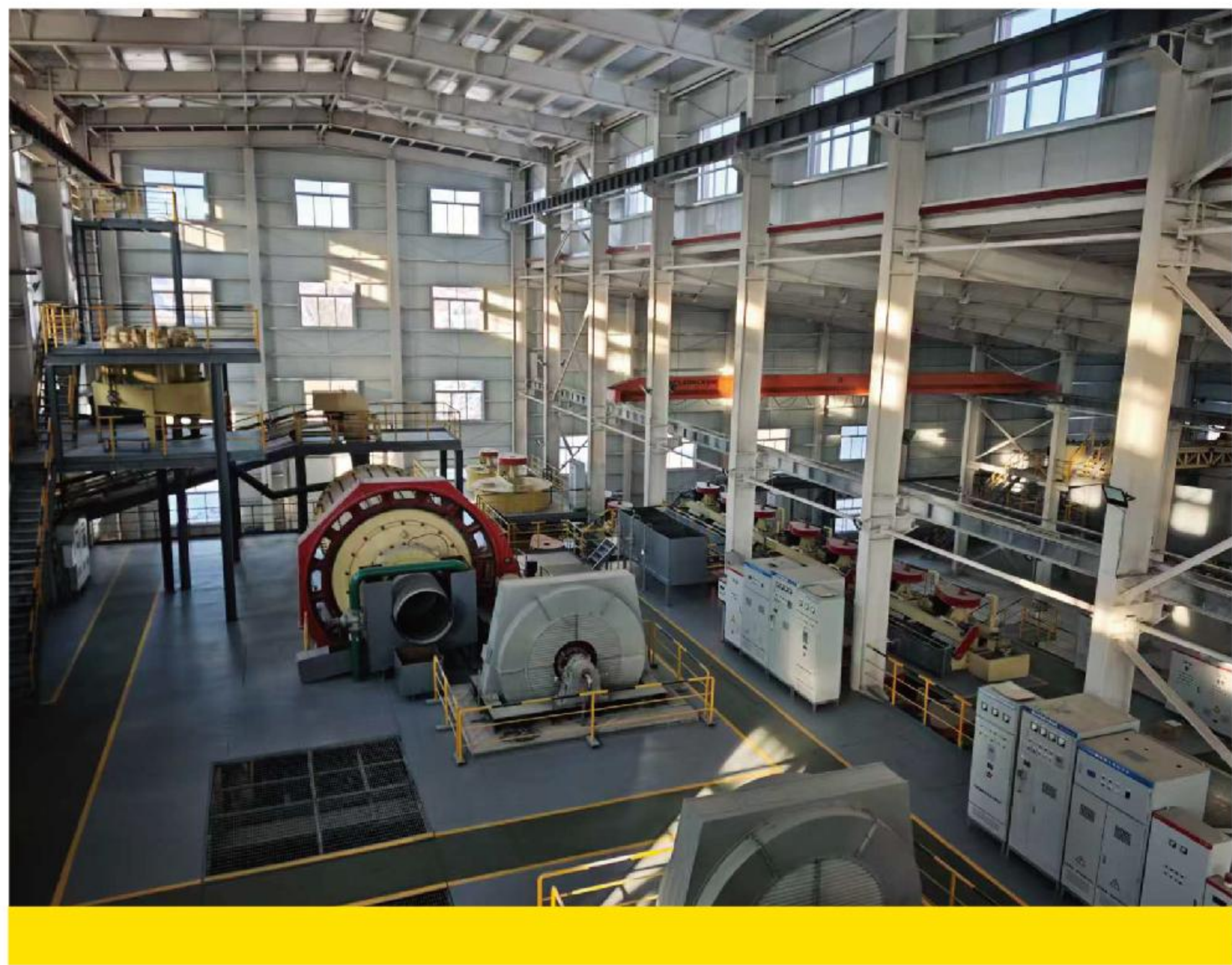


内蒙古锡林浩特1,200t/d 萤石矿选厂
1,200t/d Flourite Processing Plant in Inner Mongolia Province



亚美尼亚铜钼矿选厂
Copper Molybdenum Ore Processing Plant in Armenia

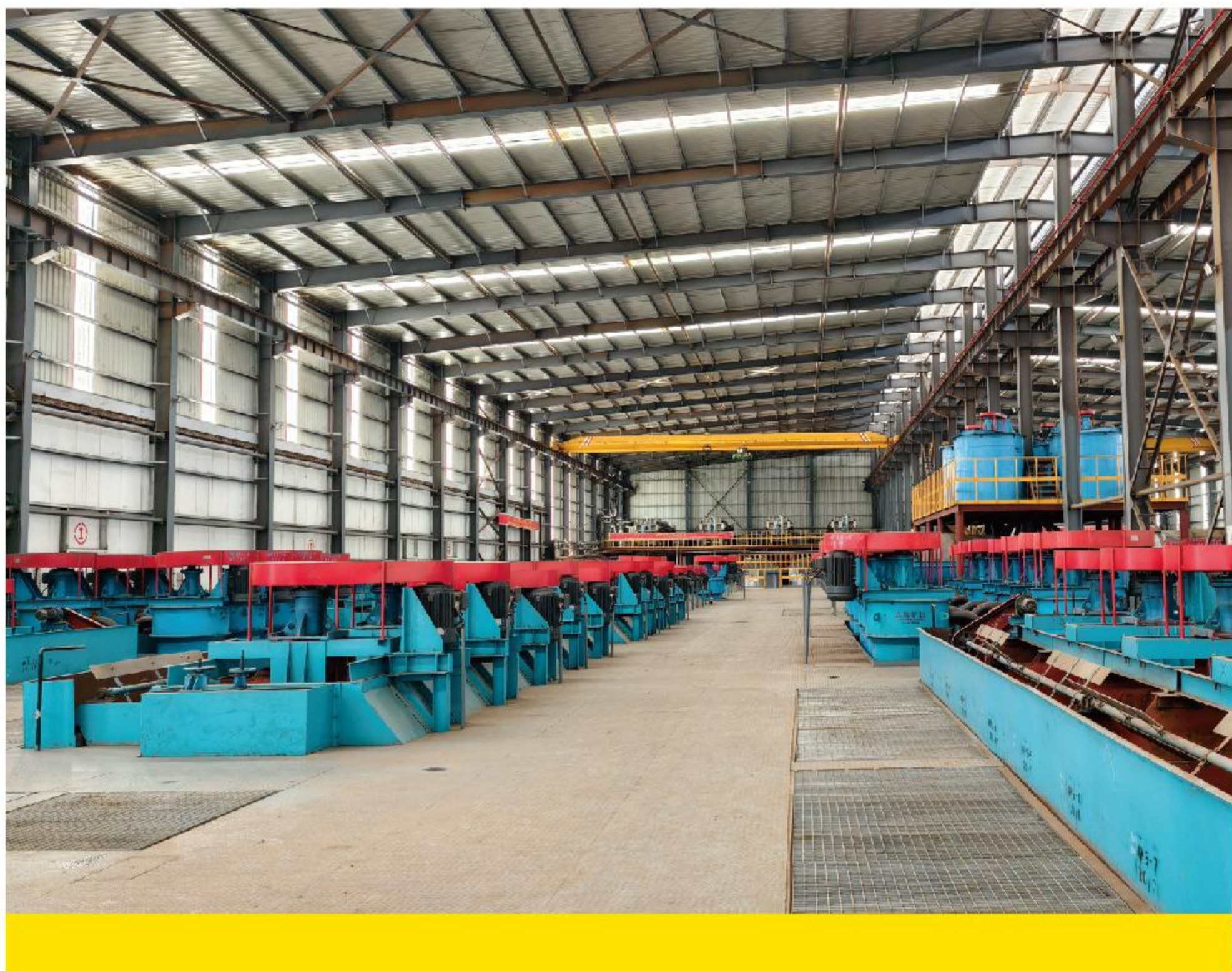




新疆3,000t/d 铜铁矿选厂
3,000 t/d Copper-Iron Ore Processing Plant in Xinjiang Province



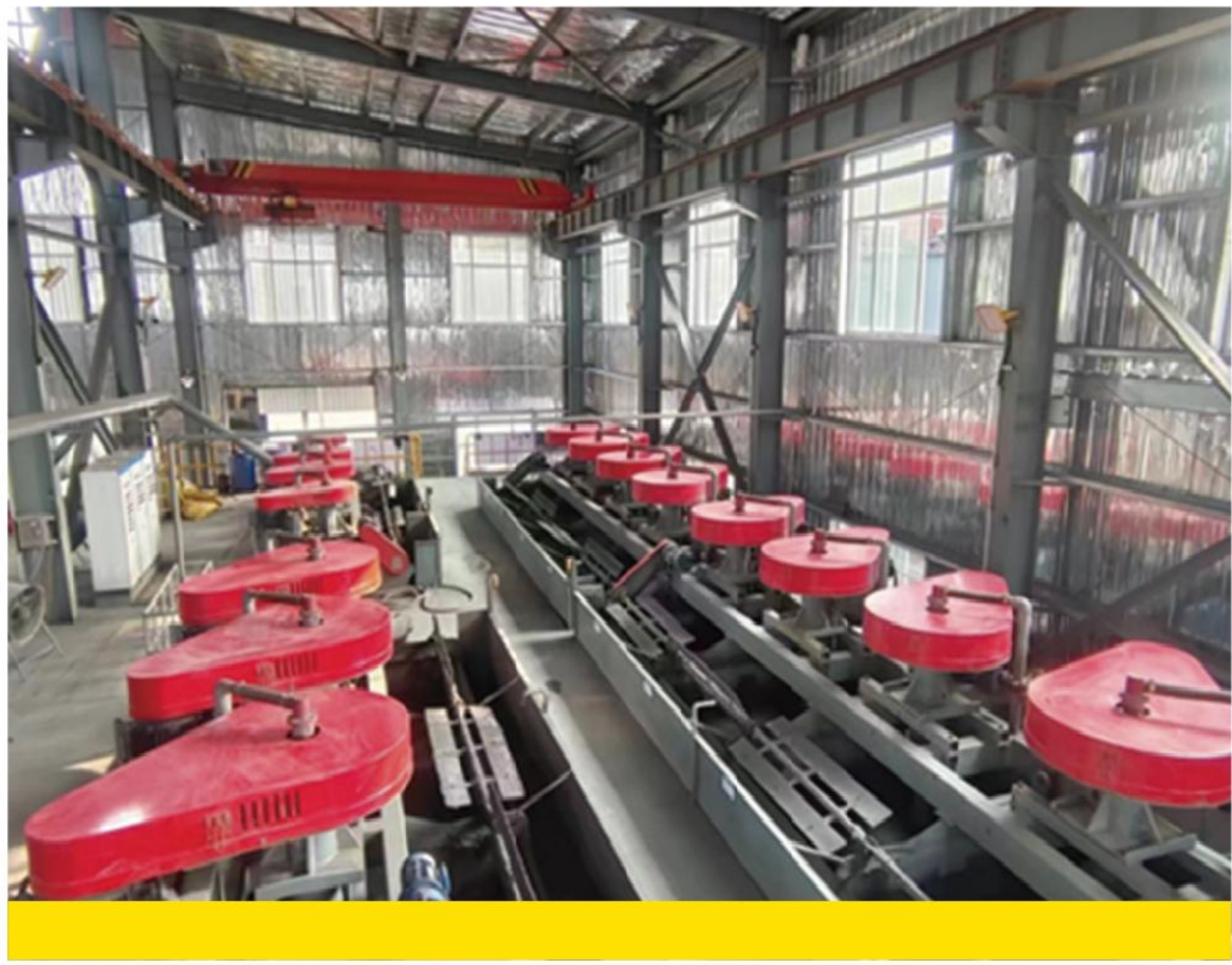
山东东营鲁方4,000t/d 铜渣冶炼厂
4,000t/d Copper Slag Processing Plant in Shandong Province



莫桑比克8,000t/d 石墨矿选厂
8,000t/d Graphite Processing Plant in Mozambique



黑龙江2,000t/d 石墨矿选厂
2,000t/d Graphite Processing Plant in Heilongjiang Province



江西700t/d 铜渣选厂
700 t/d Copper Slag Processing Plant in Jiangxi Province



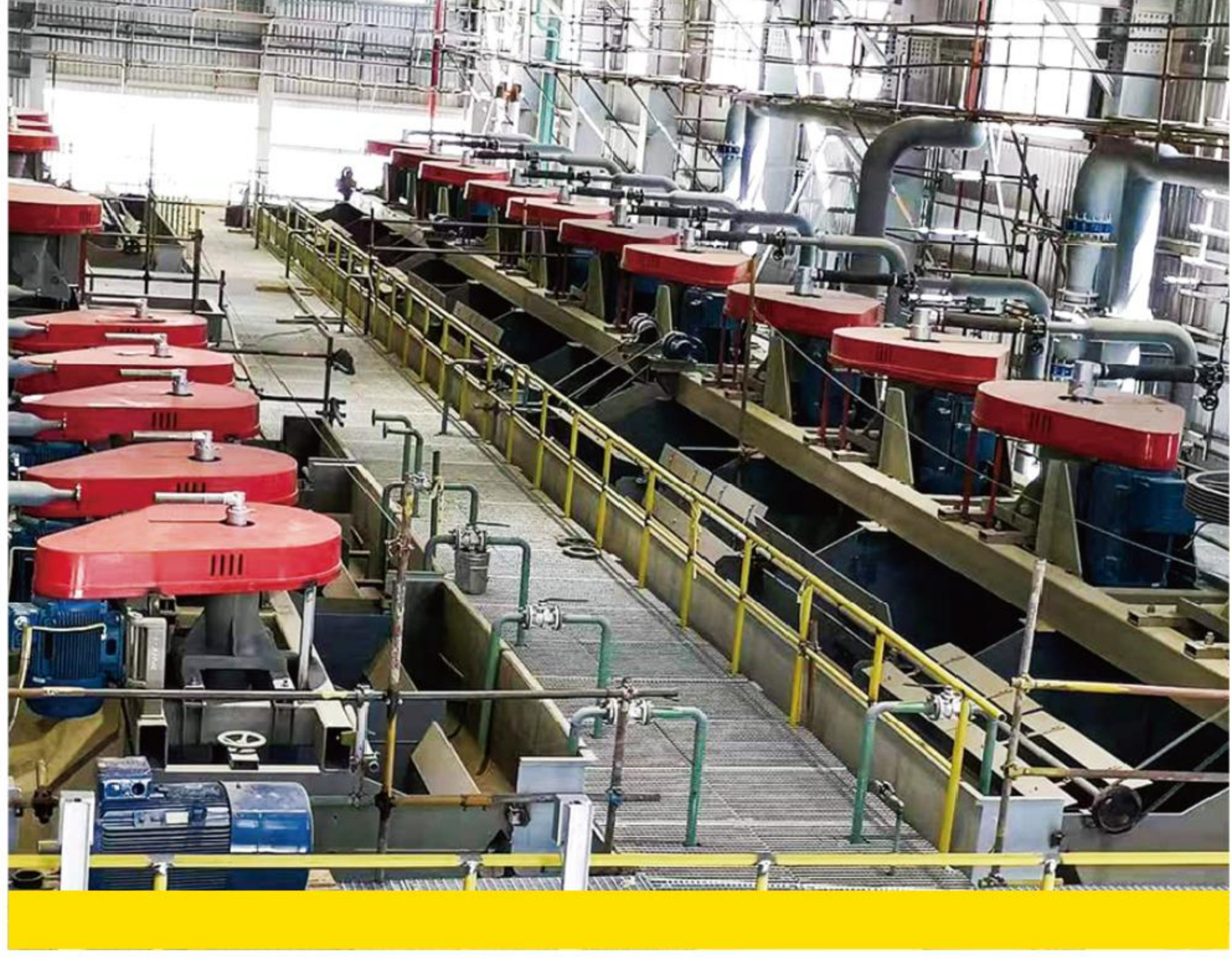
广东700t/d 铜渣选厂
700t/d Copper Slag Processing Plant in Guangdong Province



黑龙江4,000t/d 石墨矿选厂
4,000t/d Graphite Processing Plant in Heilongjiang Province



黑龙江4,000t/d 石墨矿选厂
4,000t/d Graphite Processing Plant in Heilongjiang Province



土耳其4,000t/d 铜渣选厂
4,000 t/d Copper Slag Processing Plant in Turkey



莫桑比克10,000t/d 钛锆矿
10,000t/d Titanium-Zirconium Processing Plant in Mozambique



坦桑尼亚840t/d 石墨矿选厂
840t/d Graphite Processing Plant in Tanzania



坦桑尼亚2,000t/d 石墨矿选厂
2,000t/d Graphite Processing Plant in Tanzania



越南550,000 t/a 褐铁矿选厂
550,000t/a Limonite Processing Plant in Vietnam



哈密5,000t/d 铁矿选厂
5,000t/d Iron Processing Plant in Hami



内蒙古兴业集团融冠矿业4,500t/d 铁锌矿选厂
4,500t/d Iron-Zinc Processing Plant in Inner Mongolia Xingye Group



广西1,500t/d 铁矿选厂
1,500t/d Iron Processing Plant in Guangxi Province



广西桂林1,500t/d 褐铁矿选厂
1,500t/d Limonite Processing Plant in Guangxi Province



内蒙古小西沟500t/d 铅锌矿选厂
500t/d Lead-Zinc Processing Plant in Inner Mongolia Province



罕王集团200万t/a 铁矿选厂
2 Million TPA Iron Processing Plant for Hanking Group



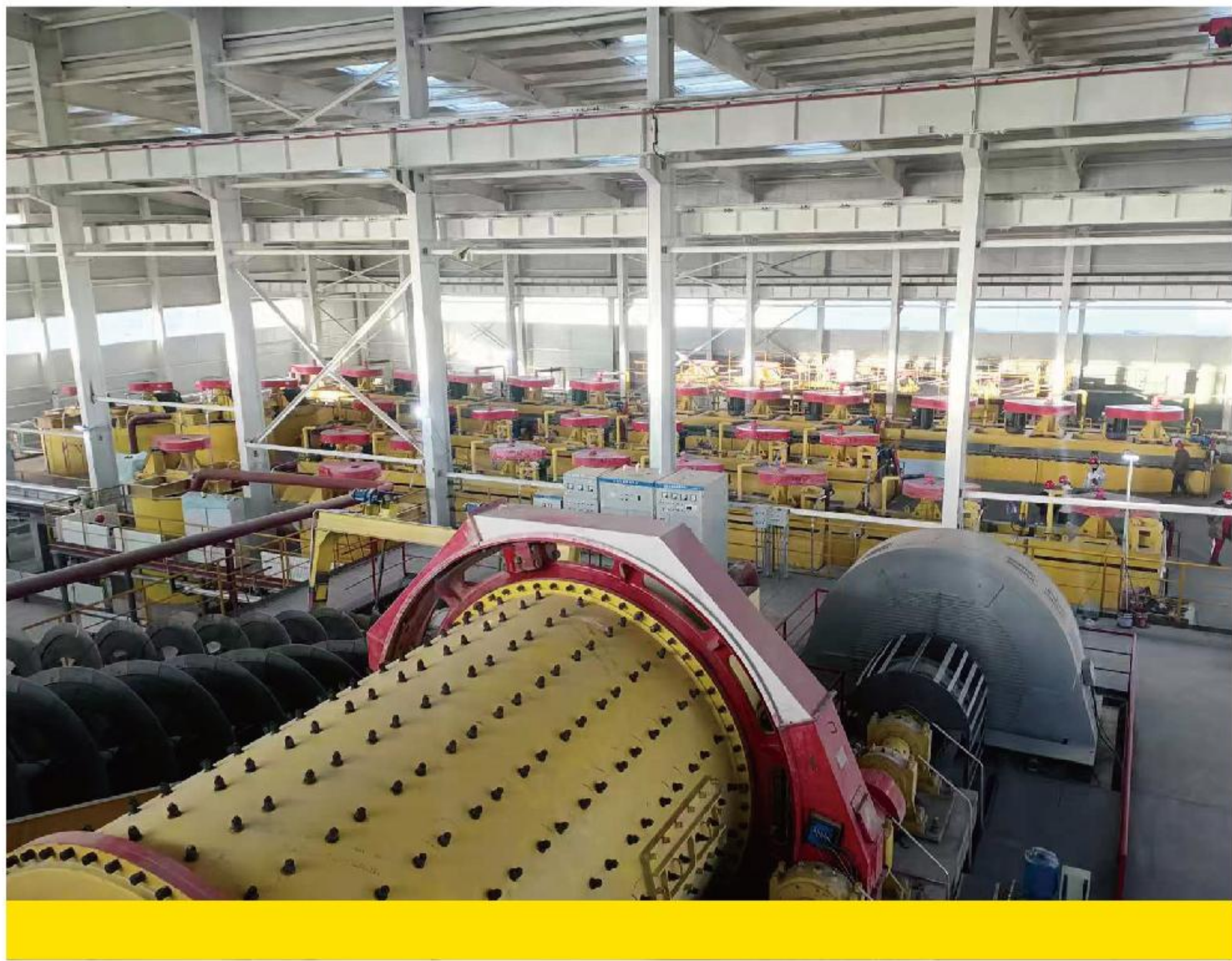
山东莱州3,000t/d 铁矿选厂
3,000t/d Iron Processing Plant in Shandong Province



蒙古新鑫矿业3,000t/d 铅锌矿选厂
3,000t/d Lead-Zinc Processing Plant in Mongolia



内蒙荣邦1000t/d 智能化铅锌矿选厂
1,000t/d Intelligent Lead-Zinc Processing Plant in Inner Mongolia Province



新疆叶城1,500t/d 锂矿选厂
1,500t/d Lithium Processing Plant in Xinjiang Province



阿根廷500t/d 银矿选厂
500t/d Silver Processing Plant in Argentina



敖伦花矿业12,000t/d 钼矿选厂
12,000t/d Molybdenum Processing Plant in Aolunhua



内蒙古小东沟6,000t/d 钼矿选厂
6,000t/d Molybdenum Processing Plant in Inner Mongolia Province



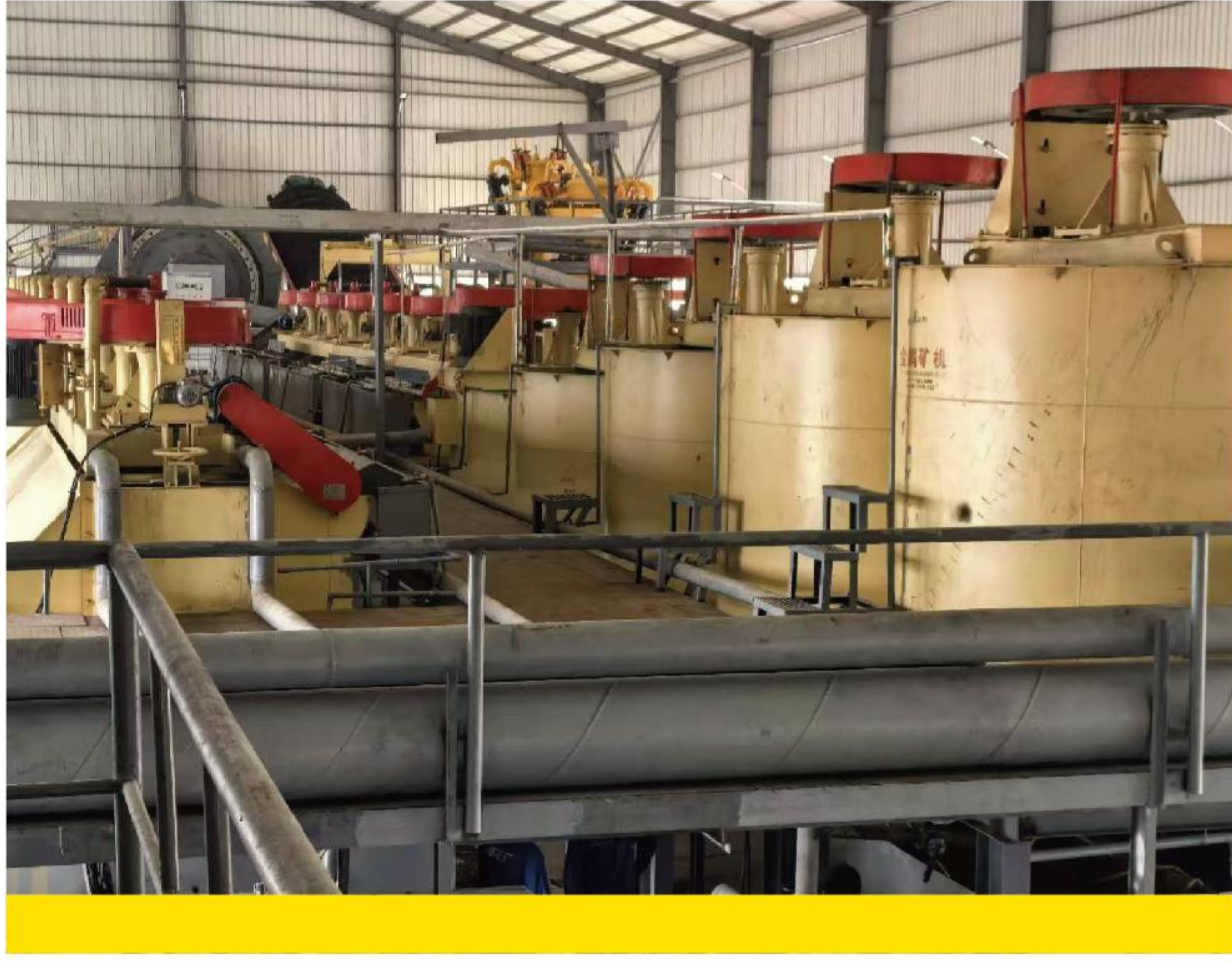
尼日利亚100万TPA 锂辉石选厂
1 Million TPA Lithium Processing Plant in Nigeria



沈阳建筑垃圾处理智能化生产线
Intelligent Production Line of Construction Waste Treatment in Liaoning Province



山东淄博3,000t/d 锂辉矿选厂
3,000t/d Lithium Processing Plant in Shandong Province



尼日利亚500t/d 锂矿选厂
500t/d Lithium Processing Plant in Nigeria



印度尼西亚300万TPA 红土镍矿选厂
3 Million TPA Laterite Nickel Processing Plant in Indonesia



河北3,200t/d 磷矿选厂
3,200t/d Phosphate Processing Plant in Hebei Province



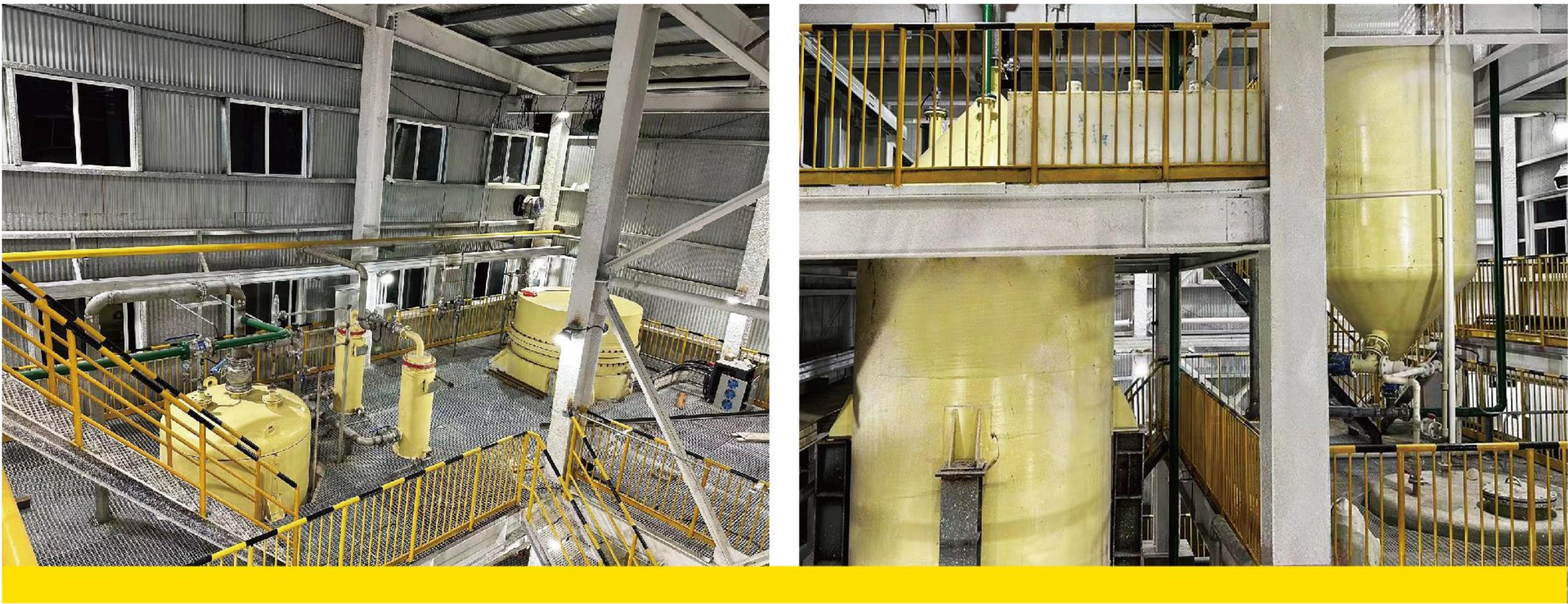
贵州15万TPA铝土矿选厂
150,000 TPA Bauxite Processing Plant in Guizhou Province



新疆12吨每批高温高压解吸电解及精炼项目
Xinjiang 12t/Batch High Temperature and Highpressure Desorption & Electrowinning and Refining Project



俄罗斯30,000TPA铍矿选厂
30,000 TPA Beryllium Processing Plant in Russia



贵州10吨每批高温高压解吸电解项目
Guizhou 10t/Batch High Temperature and Highpressure Desorption & Electrowinning Project



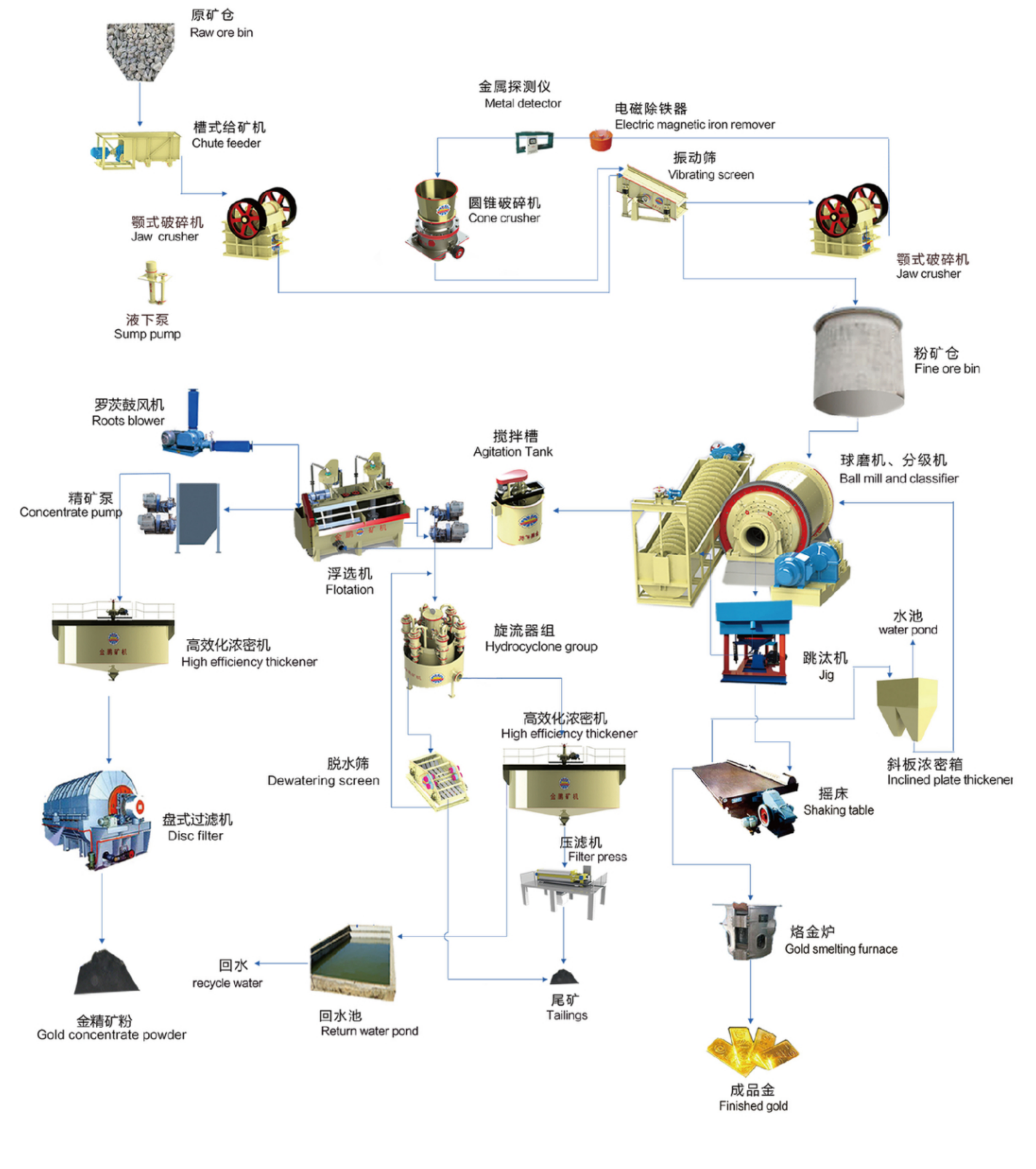
俄罗斯5,000KG每批解吸电解装置
Russia 5,000kg/Batch Elution & Electrowinning Device



俄罗斯4,000KG每批解吸电解装置
Russia 4,000kg/Batch Elution & Electrowinning Device

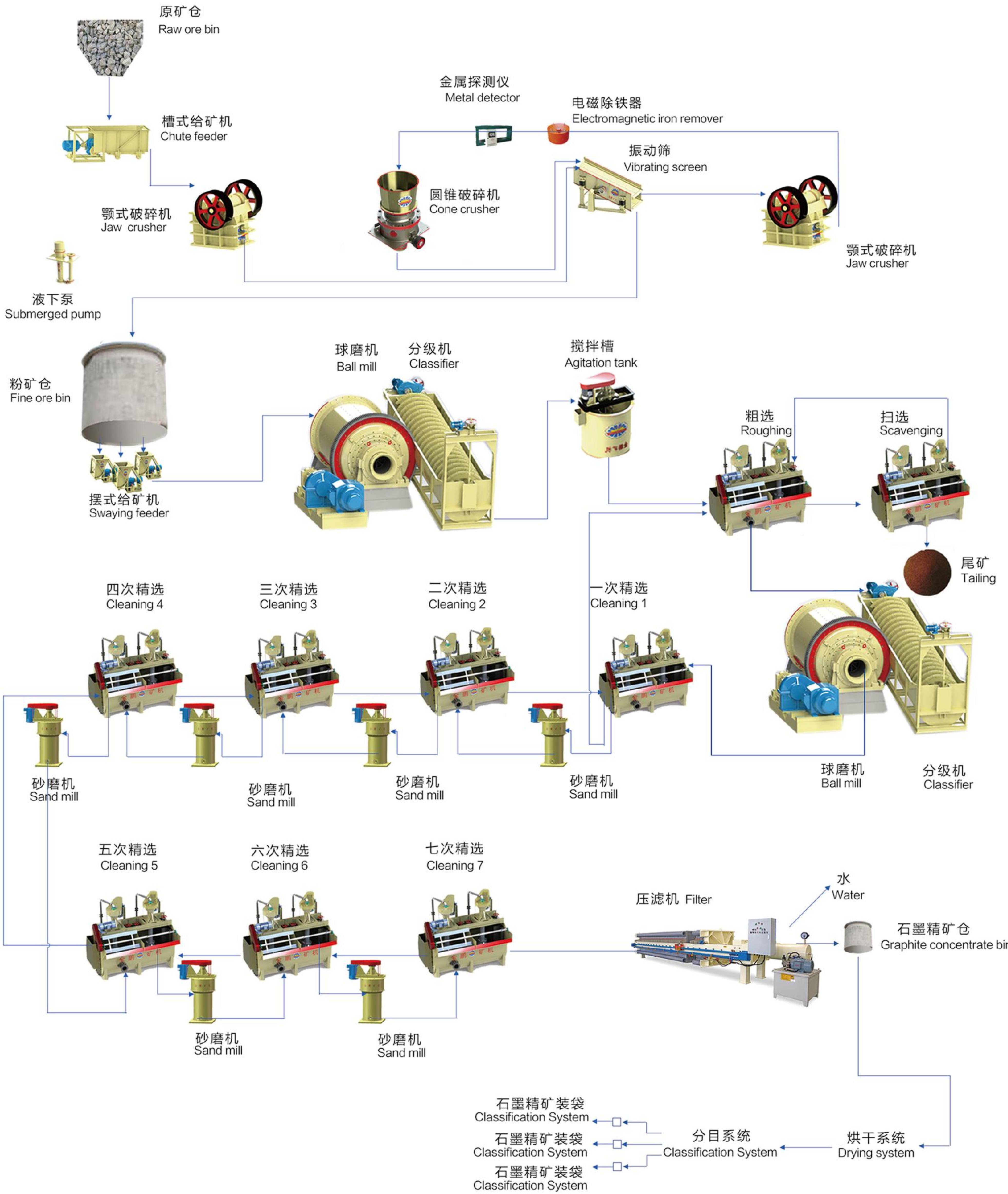
俄罗斯8吨每批解吸电解装置
Russia 8t/Batch Elution & Electrowinning Device

Process Flow Diagram of CIL Plant



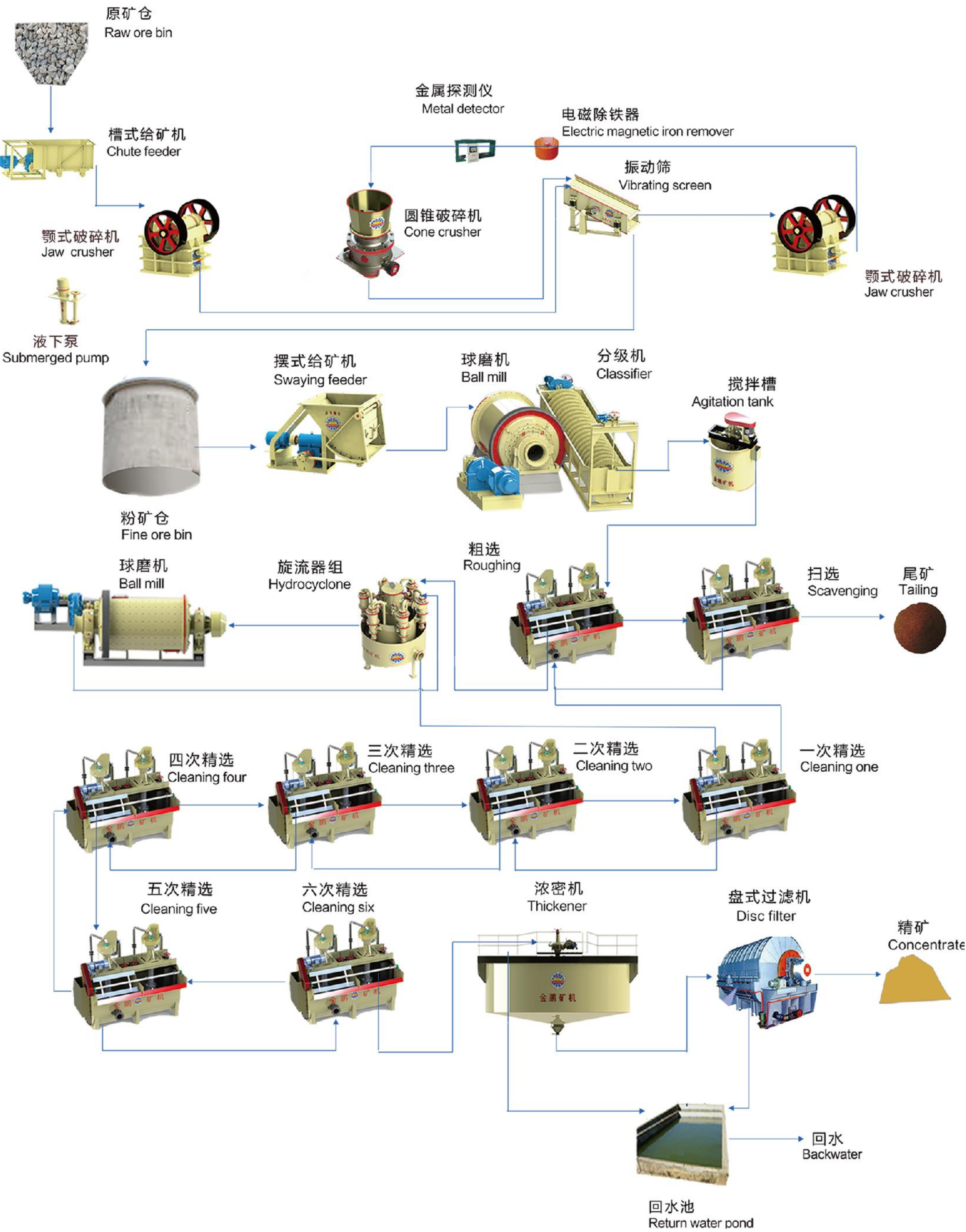
石墨矿工艺形象流程图

Process Flow Diagram of Graphite Processing Plant



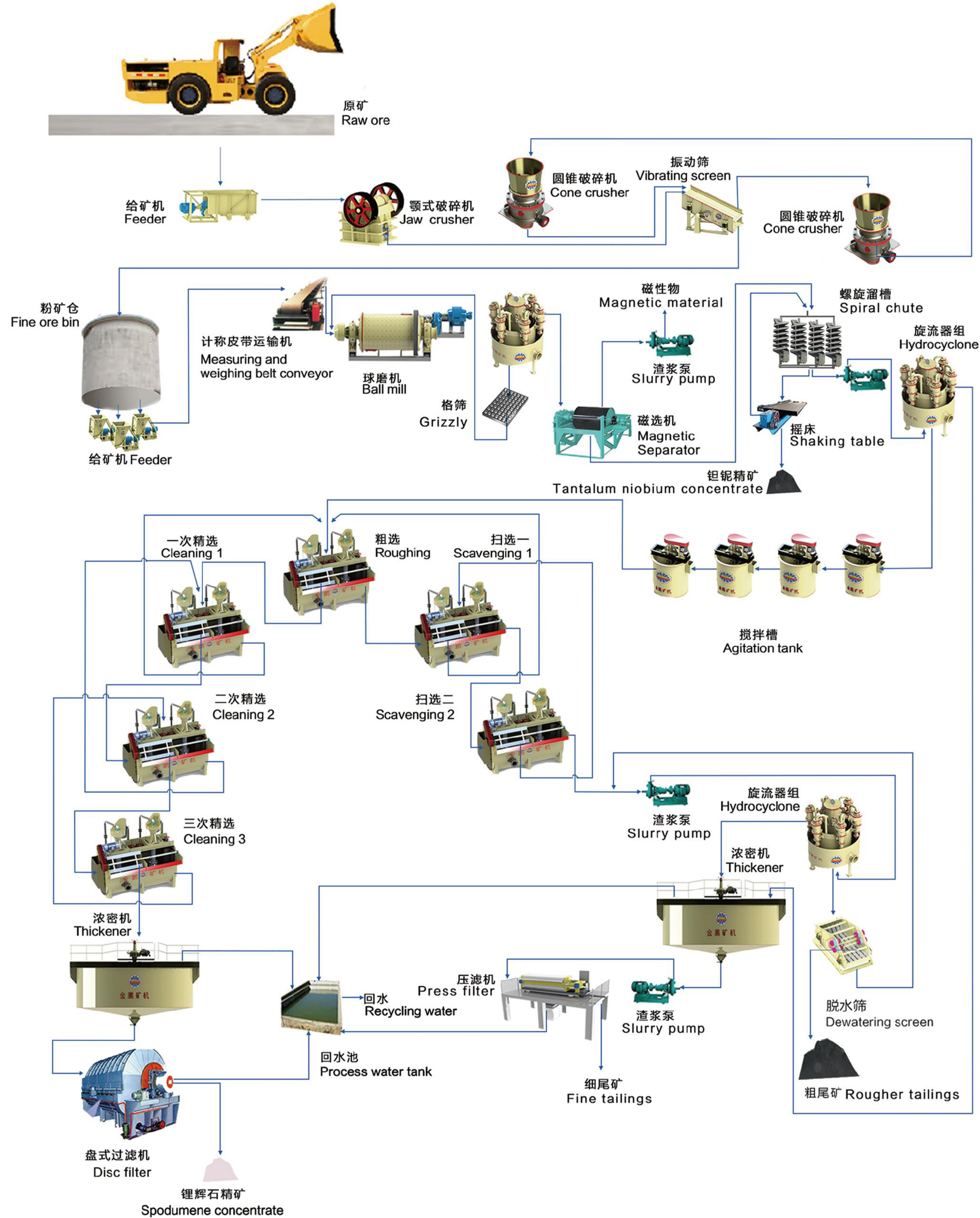
萤石矿工艺形象流程图

Process Flow Diagram of Fluorite Processing Plant



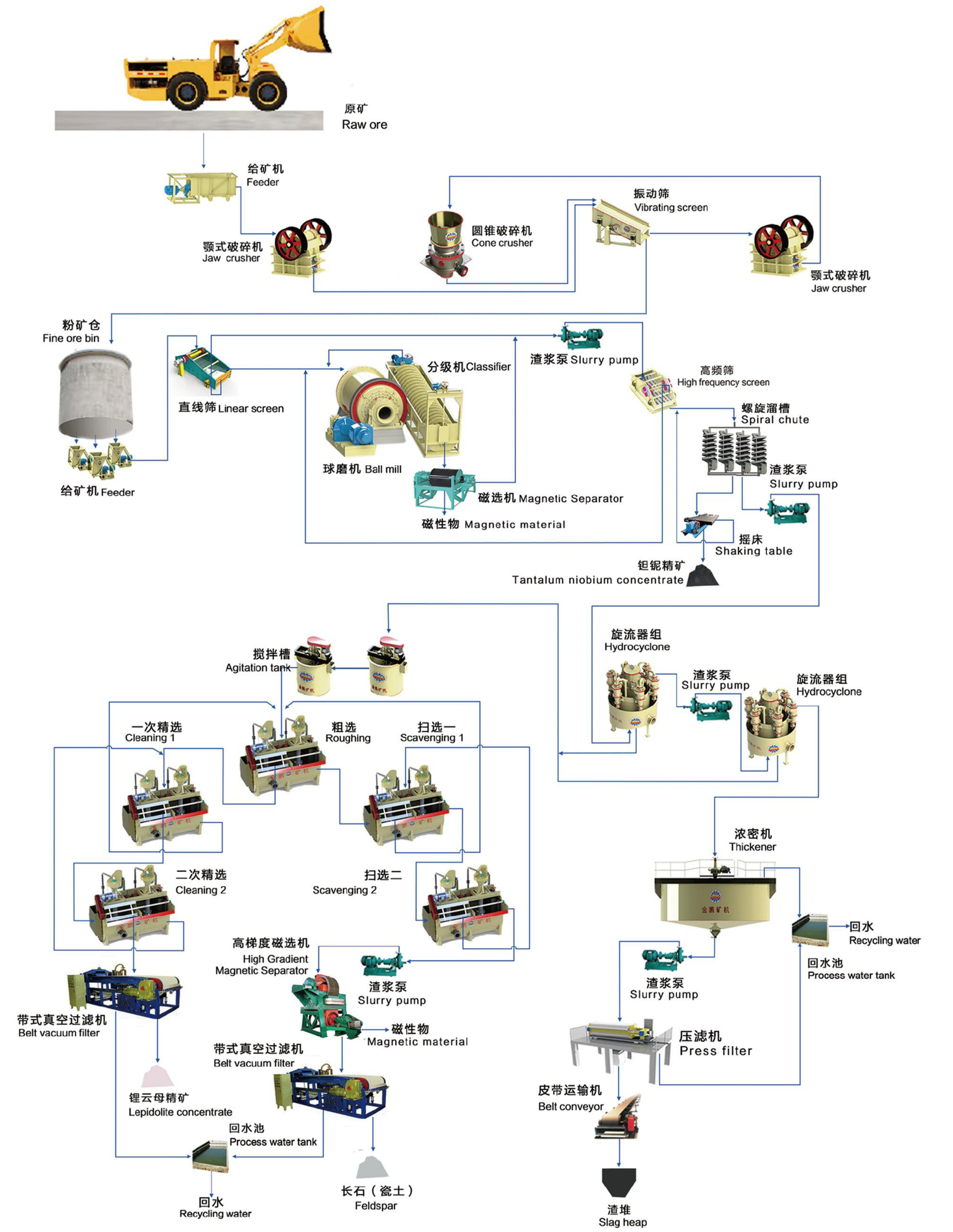
锂辉石工艺形象流程图

Process Flow Diagram of Spodumene Processing Plant



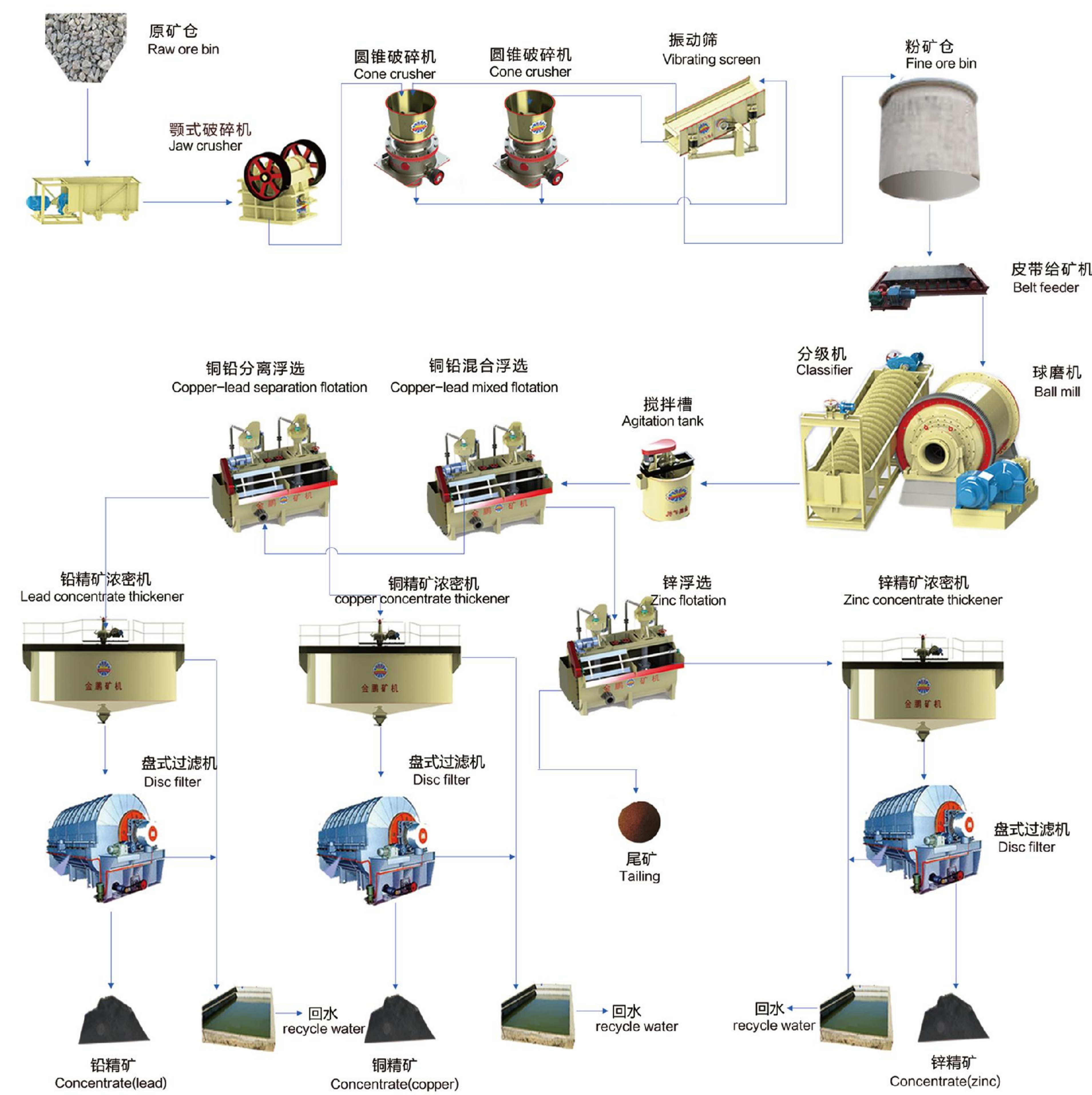
锂云母工艺形象流程图

Process Flow Diagram of Lepidolite Processing Plant



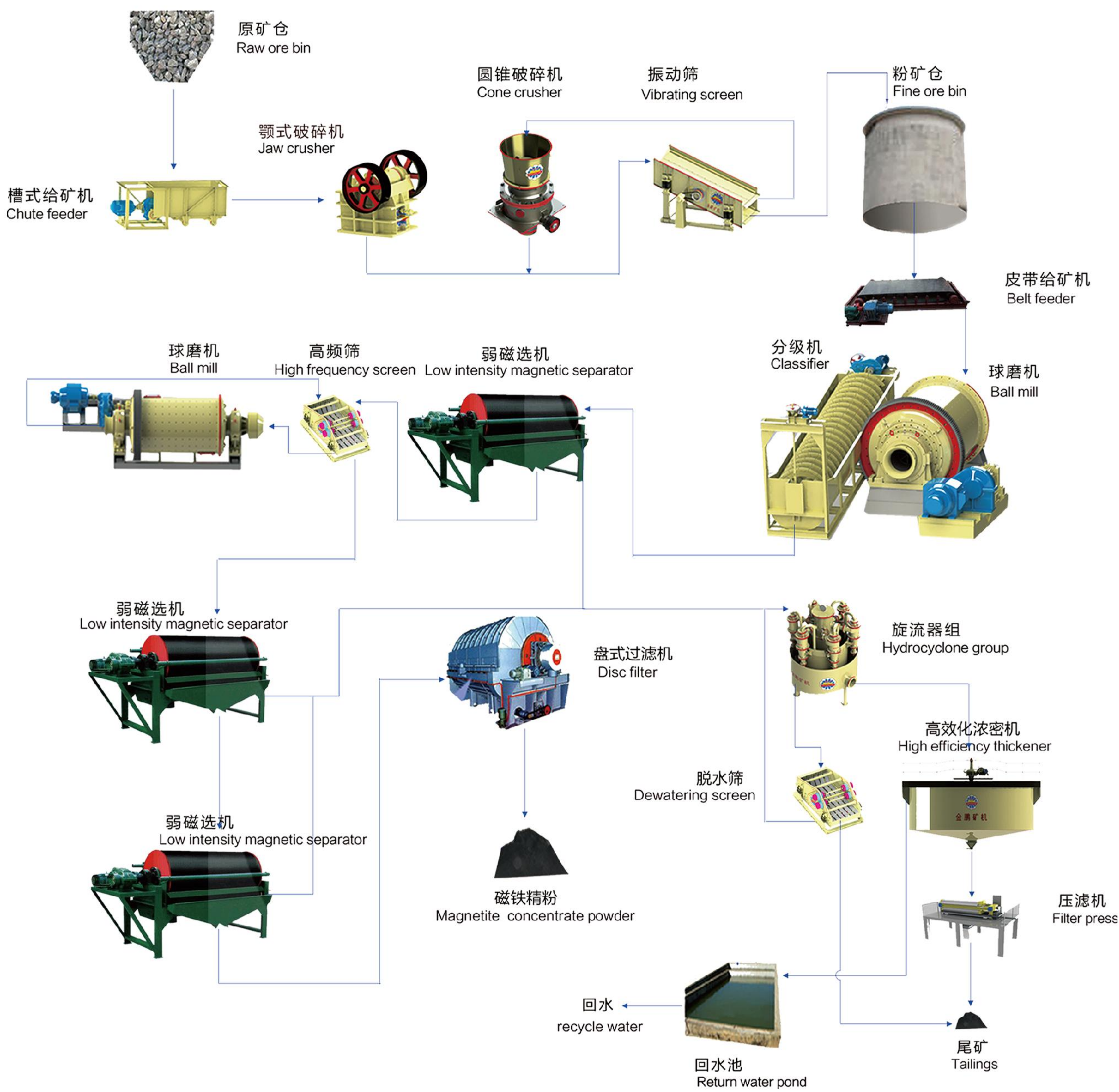
铜铅锌工艺形象流程图

Process Flow Diagram of Copper Lead-Zinc Ore Processing Plant



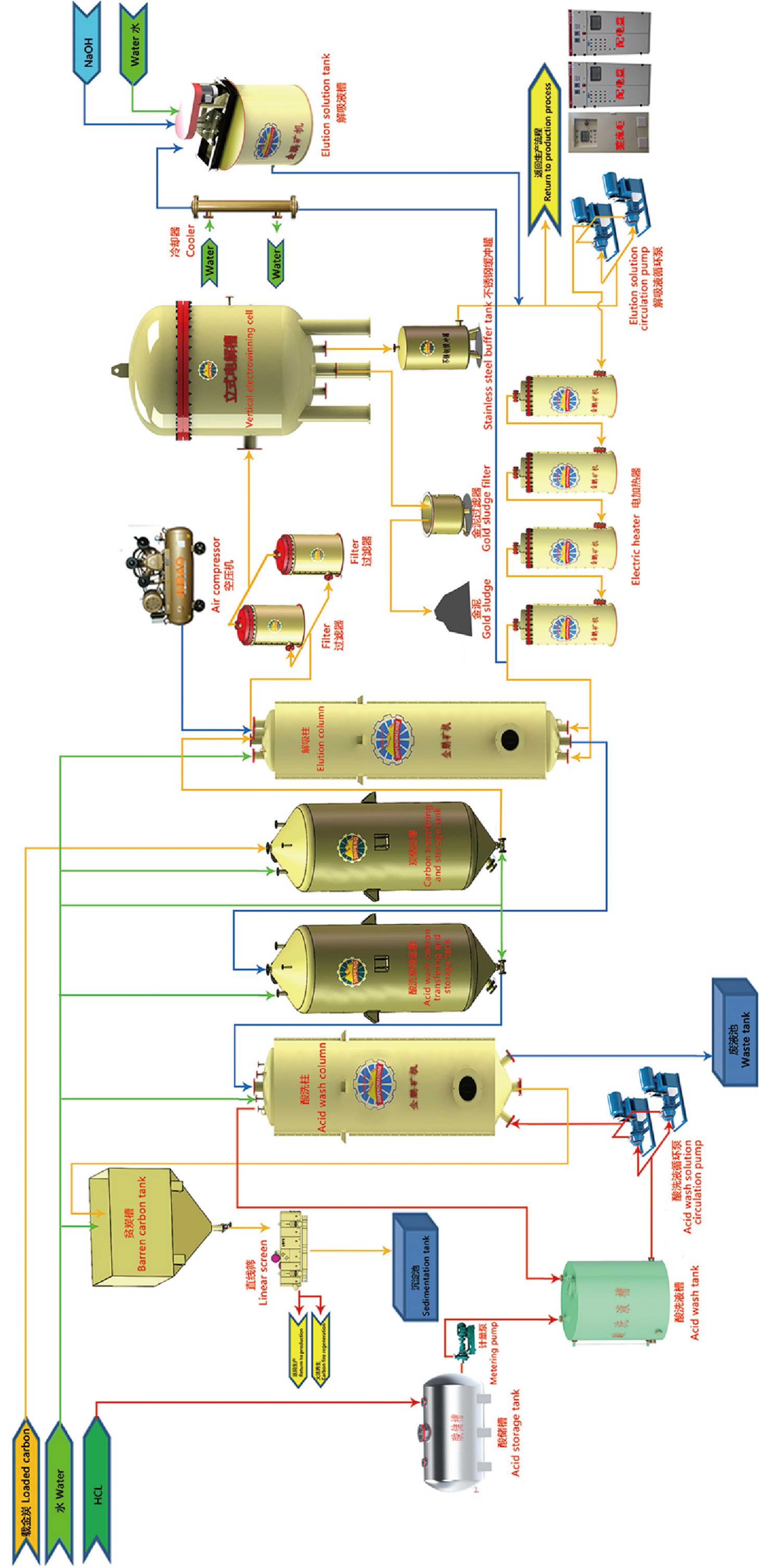
磁铁矿选矿工艺形象流程图

Process Flow Diagram of Magnetite Processing Plant



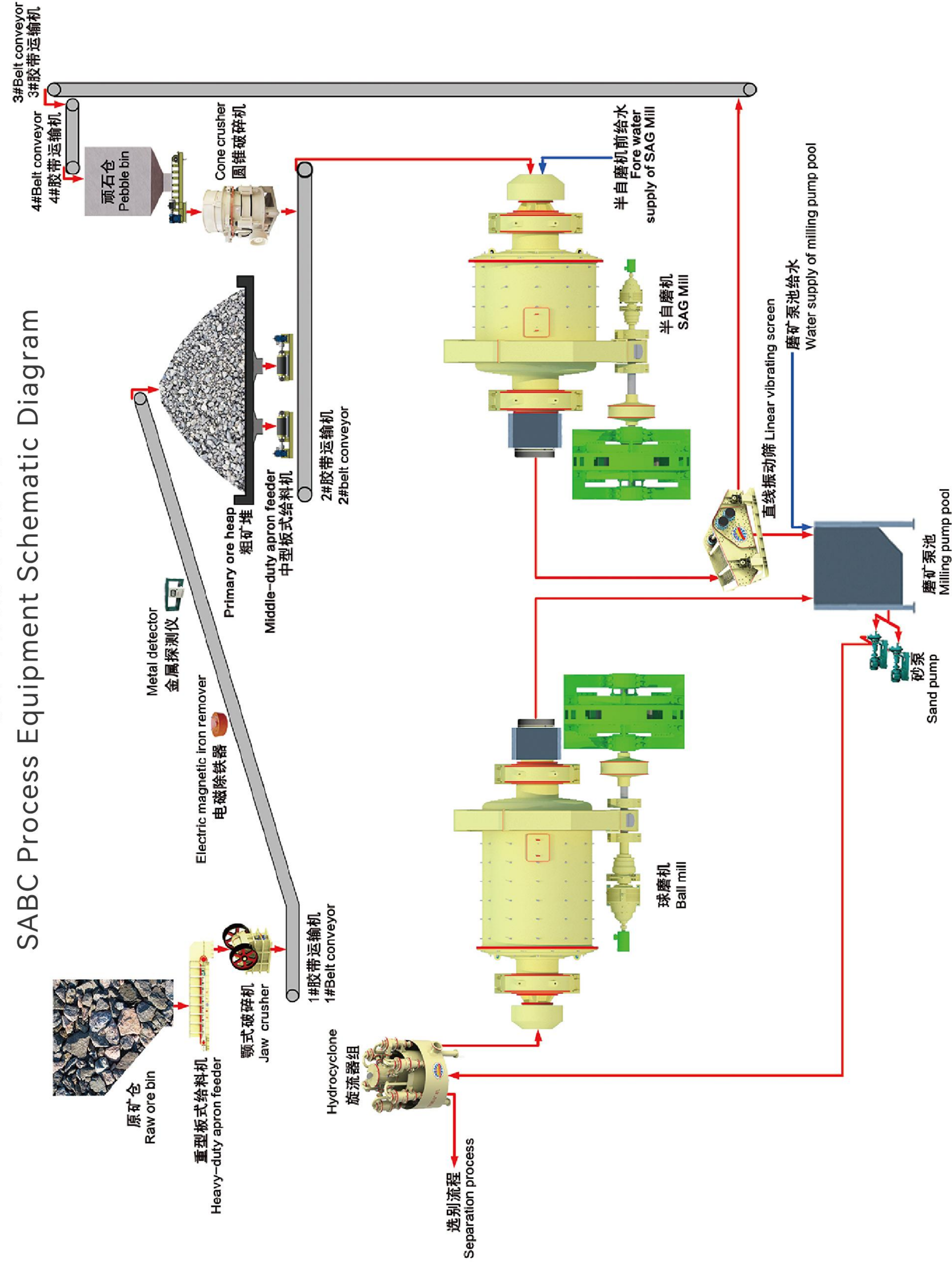
高效无氰解吸电解工艺主流程设备联系形象图

High Efficiency and Cyanide-Free Elution and Electrowinning Process Flow Diagram



SABC流程设备形象联系图

SABC Process Equipment Schematic Diagram



Process Flow Diagram of Silica Sand Processing Plant

