



# JINPENG



We create more value to our customer

***JINPENG Mineral Processing EPC Solution***



# Corporate Overview



**JINPENG** is a leading engineering manufacturing and constructing company that specializes in providing high quality laboratory test, engineering design, equipment manufacturing and installation commissioning services to the mining and metallurgy industries.

With origins dating back to 2006, **JINPENG** has experienced consistent growth and has quickly established itself as a market leader with an excellent reputation for delivering projects **on time, on budget** and to guaranteed **design performance**. The Company has achieved this strong performance while maintaining a high level of occupational health and safety and environmental standards.

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# Corporate Overview



**JINPENG** has a proven track record of delivering integrated project solutions having provided services in over 70 countries for a vast range of **precious (Au, Ag)** , **ferrous and non-ferrous metal, nonmetal** and **battery minerals**.

Headquartered in **Yantai**, China, **JINPENG** also has offices in **Indonesia** and **Moscow** and Iran with further operational establishment in **Zimbabwe, Nigeria**, and **Sudan**. The Company employs a dedicated workforce of over **500** professional, technical, managerial, supervisory and support personnel, in addition to directly employed site construction personnel and subcontractors.

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# Founder of JINPENG



**Mr. Xu Baohua**

- Mineral processing researcher
- More than 40 years experience in the mineral processing industry with involvement in conceptual evaluation, engineering, commissioning and study management for new and existing projects in China and overseas.
- Fellow member of (Australasian institute of Mining and Metallurgy )
- Chief designer of Zhongkuang Gold mine, which is the biggest gold mine in Asia at that time.

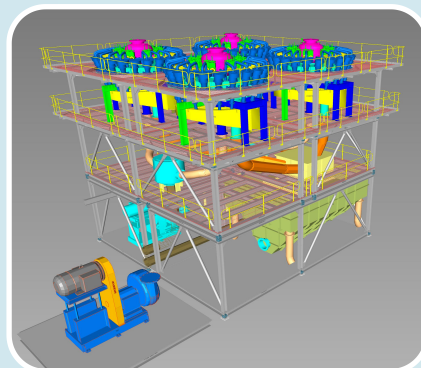
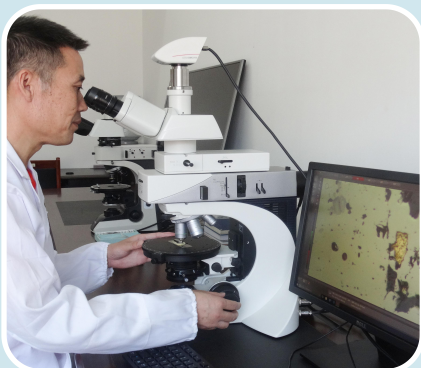


**Mrs. Yu Jinahuan**

- Senior Mining Engineer
- Graduated from Northeast university
- More than 35 years experience in the mining industry and budget estimate
-



# Our Capabilities



•Mineral  
Processing Test

•Process &  
Engineering  
Design

Equipment  
Manufacturing

•Installation &  
Commissioning

•Operation  
Management

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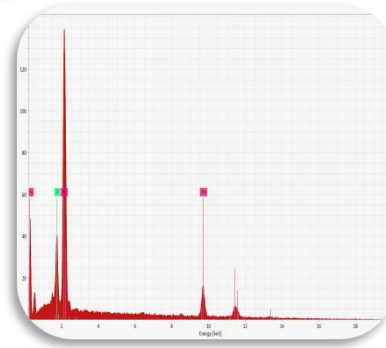
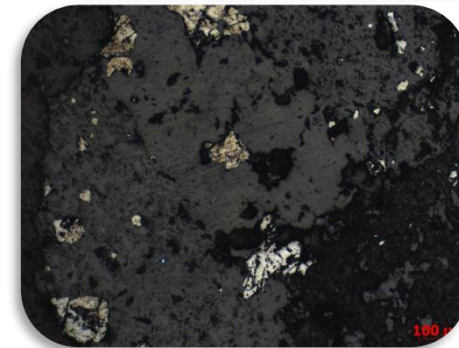
# Mineral Processing Test Center



Established in 2006 year, consisting of more than 30 experts in mineral processing and chemistry

Thousands of ore experimental and research at home and abroad

Advanced processing technology in Gold, Silver, Copper, Lead and Zinc, Iron, Fluorite, Silica sand, Graphite etc.

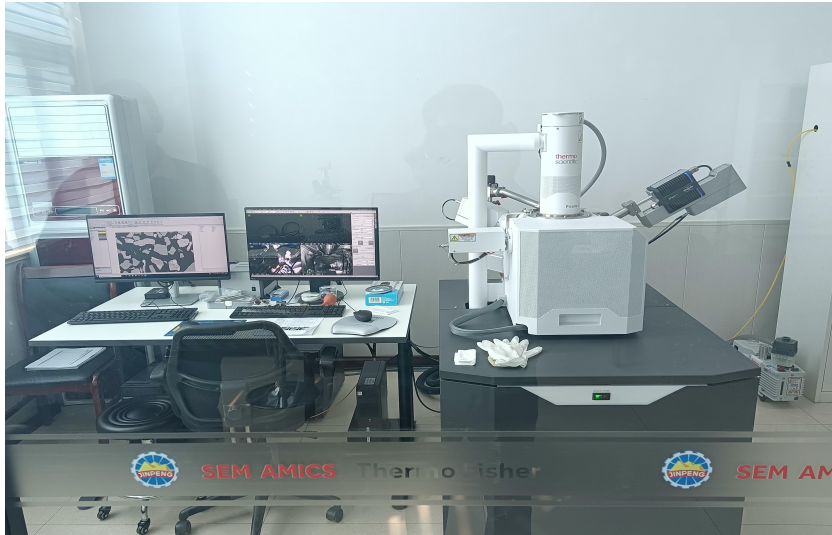


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# Mineral Processing Test Center



## Rock and Mineral Identification Room

Scanning electron microscope, AMICS automatic mineral analysis system, polarizing microscope



## Mineral Processing Laboratory

Flotation, gravity separation, magnetic separation, cyanidation, calcination, bacterial oxidation



## Analysis Laboratory

ICP instrument room, infrared sulfur carbon analysis room, chemical analysis room, fire assay room, balance room, high temperature room, sample room, melting sample room

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# Mineral Processing Laboratory



The mineral processing laboratory currently has eight functional rooms: two flotation labs, a gravity separation lab, a magnetic separation lab, a cyanidation lab, a bacterial oxidation lab, a roasting lab, a sample room, and a grinding room. Over the past 20 years since its establishment, more than 2000 experimental research projects have been completed, with an average of 150 experimental projects per year. At present, experimental research has been conducted on more than 60 single or multiple metal minerals, including 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 ore, tantalum niobium ore, ilmenite, spodumene, graphite ore, fluorite ore, phosphate ore, magnesium ore, zirconium ore, quartz, barite, potassium sodium feldspar ore, etc. The experimental research and application of bacterial oxidation technology are at an advanced level in China. There have also been new breakthroughs in the research and production application of non-toxic separation technologies for copper, lead, and zinc. We have multiple proprietary technologies in the experimental research of fluorite barite separation, scheelite fluorite separation, graphite ore, and spodumene beneficiation.

Annual average  
test: 150

Total amount of  
tests: 2000+

8 functional rooms for  
supporting facilities

Research on mineral  
types: 60+

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# Mineral Processing Laboratory



## Flotation Test Lab 1

This lab is equipped with two sets of full series flotation cells, 24L, 8L, 3L, 1.5L, 1.0L, 0.75L, 0.50L, 0.25L, 0.12L, 0.10L, and 0.08L each, which can handle the flotation process research of various minerals. In addition, it is also equipped with three-head agate grinding machine, sealed vibration prototype machine, graphite sand mill, filter, drying box, whiteness meter and other equipment.



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# Mineral Processing Laboratory



## Flotation Test Lab 2

This lab is the same as the first room, equipped with two sets of a series of flotation cells. And we have four sets of flotation equipment in the research institute, which can carry out multiple flotation test projects simultaneously, effectively reducing the research time. In addition, it is also equipped with three-head agate grinding machine, sample preparation, sealed prototype machine, filter, drying box and other equipment.



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# Mineral Processing Laboratory



## Magnetic Separation Laboratory

We have various types of magnetic separators, from dry to wet, from weak to strong, from small-scale experimental equipment to semi industrial equipment, which can adapt to the purification and enrichment of strong and weak magnetic minerals and the removal of non-metallic minerals. Specifically, we have a 500mm diameter vertical ring continuous high gradient strong magnetic separator, a flat ring periodic high gradient strong magnetic separator, magnetic pulley, magnetic separation tube, cylindrical magnetic separator and strong magnetic dry separator.



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# Mineral Processing Laboratory



## Gravity Separation Test Lab

There are Nielsen concentrators imported from Canada, which have unique effects on the recovery of fine particles and heavy minerals. In addition, there are ore mud shaking suitable for fine particle mineral gravity separation, ore sand shaking for coarse particle mineral gravity separation, spiral chute for coarse selection equipment, horizontal centrifuges for fine mud, and pre selection equipment jig.



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# Mineral Processing Laboratory



## Sample Room

The sample room has divided each sample plat according to the specifications and clearly labeled them to ensure that the samples do not contaminate each other. The sample is carried out using the ring cutting method to ensure the representativeness.

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# Mineral Processing Laboratory



## 氰化试验室



## Cyanidation Laboratory

The cyanidation laboratory is equipped with 18 cyanide mixing devices of different sizes, which can simultaneously conduct full mud cyanide tests on five or six types of ores. There are also ore heap leaching device, oxygen enriched leaching device, zero headspace extractor for sewage treatment, flip oscillator, high-pressure filter, odor oxygen generator and other equipment.

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# Mineral Processing Laboratory



## Bacterial Oxidation Lab

This lab is equipped with a fully 316 stainless steel water bath heating, inflation, and speed adjustable bacterial oxidation leaching stirring device, a constant temperature shaking incubator, and a bacterial storage and preservation cabinet suitable for different mineral species, which is suitable for high arsenic and high sulfur micro particle disseminated gold mines.

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# Mineral Processing Laboratory



## Grinding Ore Room

This room has one Bond power index ball mill, two rod mills of different sizes, three ball mills of different sizes, one specialized ball mill for grinding degree comparison, and one non-metallic high aluminum ball mill, which can adapt to the grinding of various materials.



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# Mineral Processing Laboratory



## Roasting Laboratory

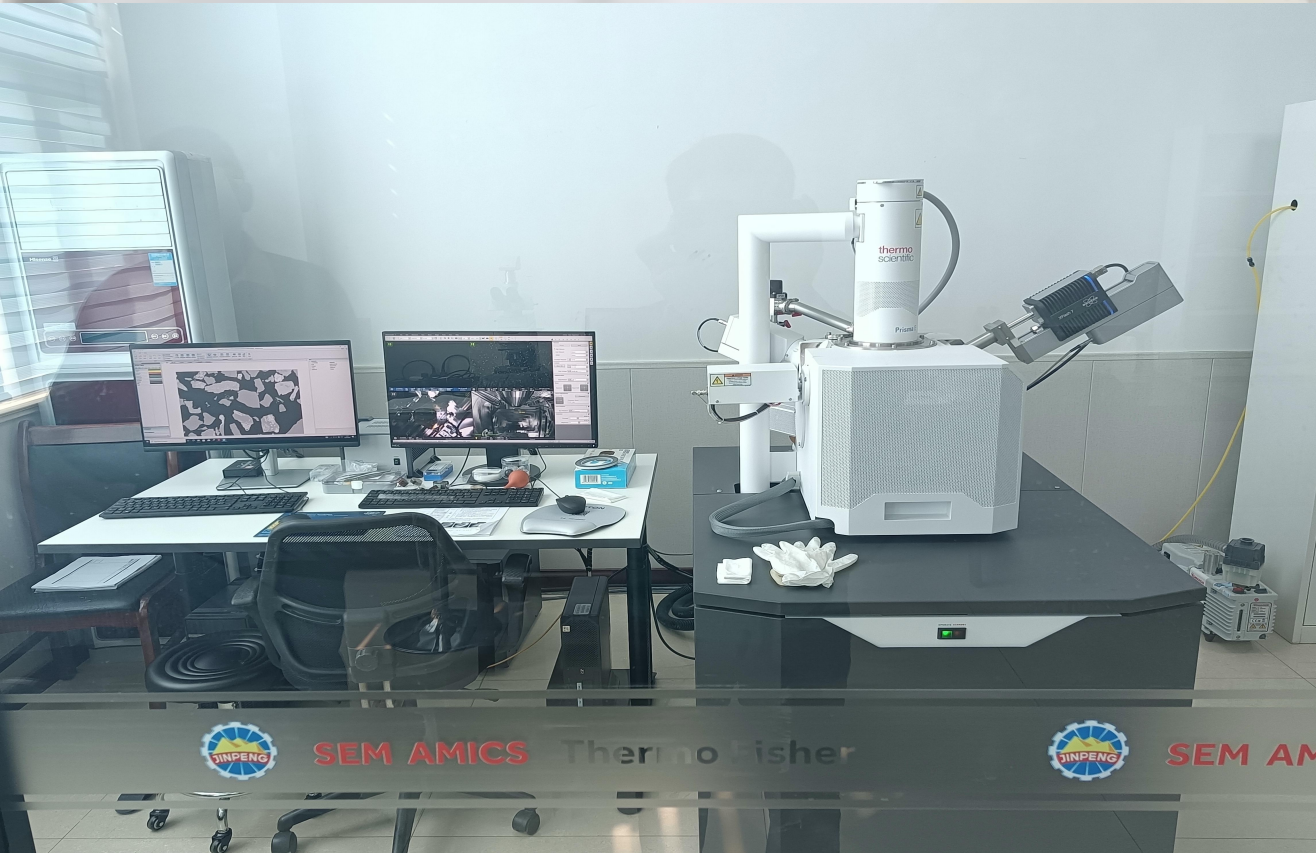
We have 5 roasting furnaces of different sizes to meet the roasting needs of different ores.



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## Rock and Mineral Identification Room



We have precision research equipment such as the Thermo Fisher scanning electron microscope from the United States, the Automatic Mineral Analysis System (AMICS), the Leica polarizing microscope from Germany, and a fully automatic grinding and polishing machine, with a value of over 3 million yuan. We can conduct mineralogical research on mineral processing technology, process parameter, theoretical indicator research and utilizability evaluation.

**Appraisal  
experience: 30 years**

**Import advanced  
equipment**

**Identification of  
mineral types: 60**

**Imported mineral  
system**

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# Rock and Mineral Identification Room



## SEM+AMICS

Thermo Fisher scanning electron microscope: Combined with advanced AMICS mineral analysis system, this electron microscope can accurately calculate three points:

1. The content of various minerals in the ore, especially when one element corresponds to multiple minerals, can provide precise guidance for mineral processing experiments;
2. The statistics of the particle size distribution of the target minerals can determine the specific crystalline particle size of the target minerals and adopt targeted beneficiation measures for recovery;
3. There are many variations in the statistics of the dissociation degree of target mineral, such as the determination of dissociation degree of target mineral at different fineness levels, and the number of associated minerals with the target mineral, which have great guiding significance for mineral processing experiment.



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# Rock and Mineral Identification Room



## Grinding Room

In order to assist in the analysis and identification of scanning electron microscopy, this room is equipped with a fully automatic grinding and polishing machine, a carbon spraying instrument, an ultrasonic cleaning machine, a drying oven, a mineral cutting machine, a rough polishing and grinding machine, and a precision polishing machine.



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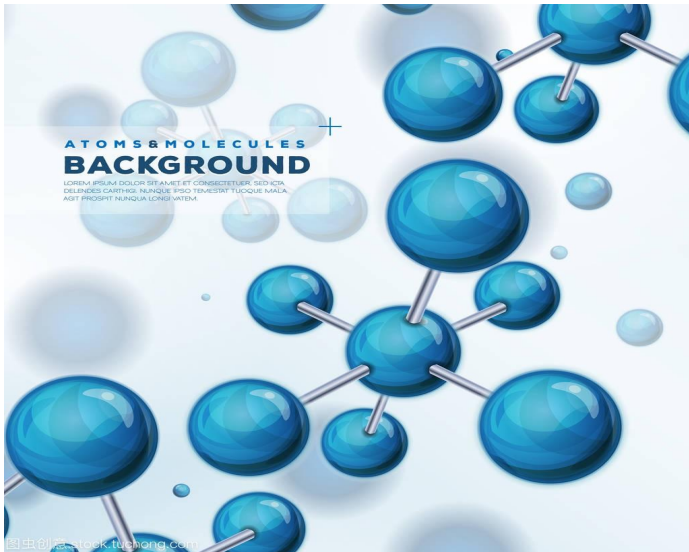


# Analysis Laboratory



## Introduction

The laboratory has seven functional rooms: dissolution room, balance room, ICP instrument room, fire assay room, high temperature room, chemical analysis room and infrared sulfur-carbon analysis room. It has multiple analysis and test instruments, including inductively coupled plasma spectrometer imported from the United States, high-frequency infrared carbon and sulfur analyzer, atomic absorption spectrophotometer, visible spectrophotometer, imported 1/10000 balance, fire assay equipment, and various heating equipment. It meets the various needs of gold, silver, copper, lead, zinc, potassium, sodium, calcium, magnesium, aluminum, iron, manganese, titanium, molybdenum, tin, molybdenum, antimony, cobalt, vanadium, nickel, chromium, lithium, phosphorus, niobium, tantalum, rubidium, cesium, and other minerals in various ores. Detection of over 70 common elements such as carbon, zirconium, rare elements, precious metals, non-ferrous metal concentrates, and mineral phase analysis of over 30 types.



**7 functional rooms for supporting facilities**

**Analytical elements:  
70+**

**Annual average  
analytical test: 30000+**

**Phase analysis:  
30+**

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## Analysis Laboratory



### Chemical Analysis Room

This room is used for chemical experiment and research. It is suitable for testing the content of elements in chemical analysis method and preparing standard solution.



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## Analysis Laboratory



### Balance Room

This room is used for sample submission, registration, and management. It is also used for weighing analytical samples, preparing standard solutions for weighing, and storing samples. It is also equipped with three 1/10000 analytical scales and two 1/1000 scales.



2023/12/21 13:55

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## Analysis Laboratory



### Dissolution Room

This room is used for pre-treatment of various ore samples, including sample dissolution and wet dissolution of gold element, activated carbon adsorption and washing.



2023/12/18 15:42

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## Analysis Laboratory



### High Temperature Room

This room has six muffle furnaces and three resistance furnaces, which are used for high temperature alkali melting of sample, fixed carbon detection, gold loaded carbon carbonization and ashing, and roasting of samples containing impurities.



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## Analysis Laboratory



### Instrument Room



**Thermo Fisher (USA) ICP inductively coupled plasma emission spectrometer:** With powerful multi-element analysis capability, it can complete the analysis in a short time and ensure the trace analysis results of the sample. It has extremely strong stability, high determination efficiency and high precision, which can detect more than 70 elements.

**AAS Atomic Absorption Spectrometer:** Using a uniquely designed 8-position lamp frame, it can quickly and accurately analyze metal elements in ore.

**Spectrophotometer:** Suitable for colorimetric detection of low content elements in ore.

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## Analysis Laboratory



### Infrared Sulfur and Carbon Analysis Room

Advanced high-frequency infrared carbon and sulfur analysis technology is adopted, which has the advantages of fast sample processing speed, accurate analysis result and simple operation. It can detect 0.0001% -99.99% carbon and sulfur, including the detection of effective sulfur.



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## Analysis Laboratory



### Fire Assay Room

The fire assay method is widely used in the chemical analysis of gold, silver and precious metals. In the arbitration analysis of gold and silver content, the fire assay method is often used due to its high accuracy and precision in the determination results. The fire assay system can remotely and precisely control temperature and start/stop with a mobile phone, with high temperature control accuracy, uniform and stable temperature inside the chamber, pneumatic control for opening the door, convenient operation, independent furnace, and easy maintenance and replacement of the furnace.

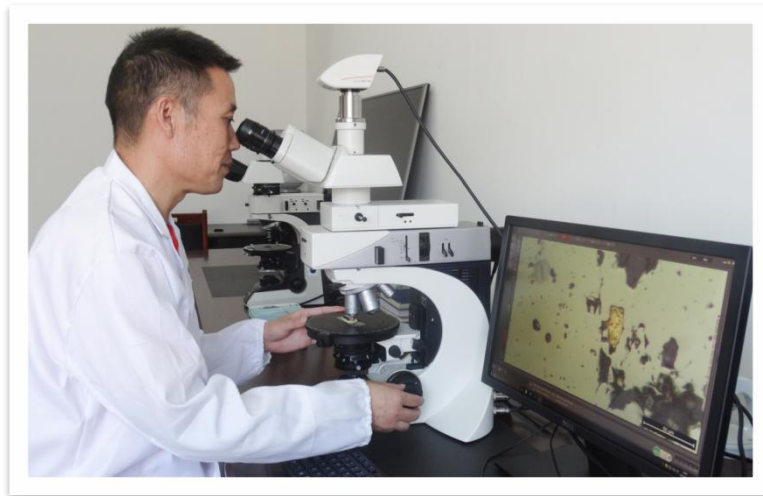


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# Mineral Processing Test Center



**Determinative mineralogy**



**Atomic Absorption Spectrum**



**Roasting**

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# Mineral Processing Test Center



**Knelson concentrator**



**Flotation**



**Leaching**

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# Mineral Processing Test Center



**Grinding**



**GRG**



**Magnetic**

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# Engineering Design Institute

## Engineering & Design

### What we do



Front End  
Engineering  
Design (FEED)



Process design,  
development and  
optimization



Mechanical design  
and specification



3D modelling and  
design



Detailed  
engineering design  
and drafting



Civil and structural  
design and  
specification



Electrical,  
instrumentation  
and control  
system design



HAZOP study

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# Engineering Design Institute

## 70 engineers in 16 disciplines

- Mining
- Tailing storage
- Smelting
- Automation
- Civil engineering
- Mining equipment
- Mineral processing
- Environment protection
- Electric power
- Geology
- General layout
- Technical economy
- Budget estimate
- Shaft construction
- Heating and ventilation
- Water supply and drainage

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# Engineering Design Institute

DIGITALIZATION, INTELLIGENTIZATION & INFORMATIZATION



Application of digital technology

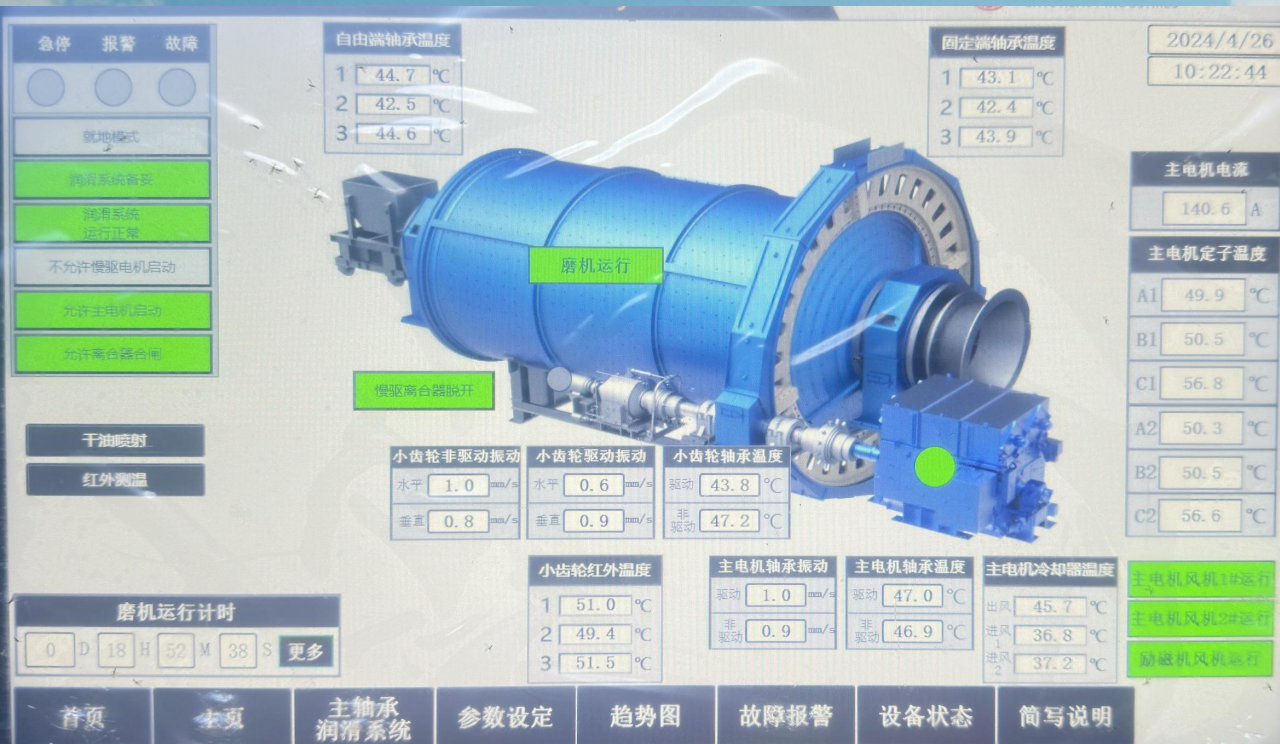
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# Engineering Design Institute

DIGITALIZATION, INTELLIGENTIZATION & INFORMATIZATION



Application of digital technology

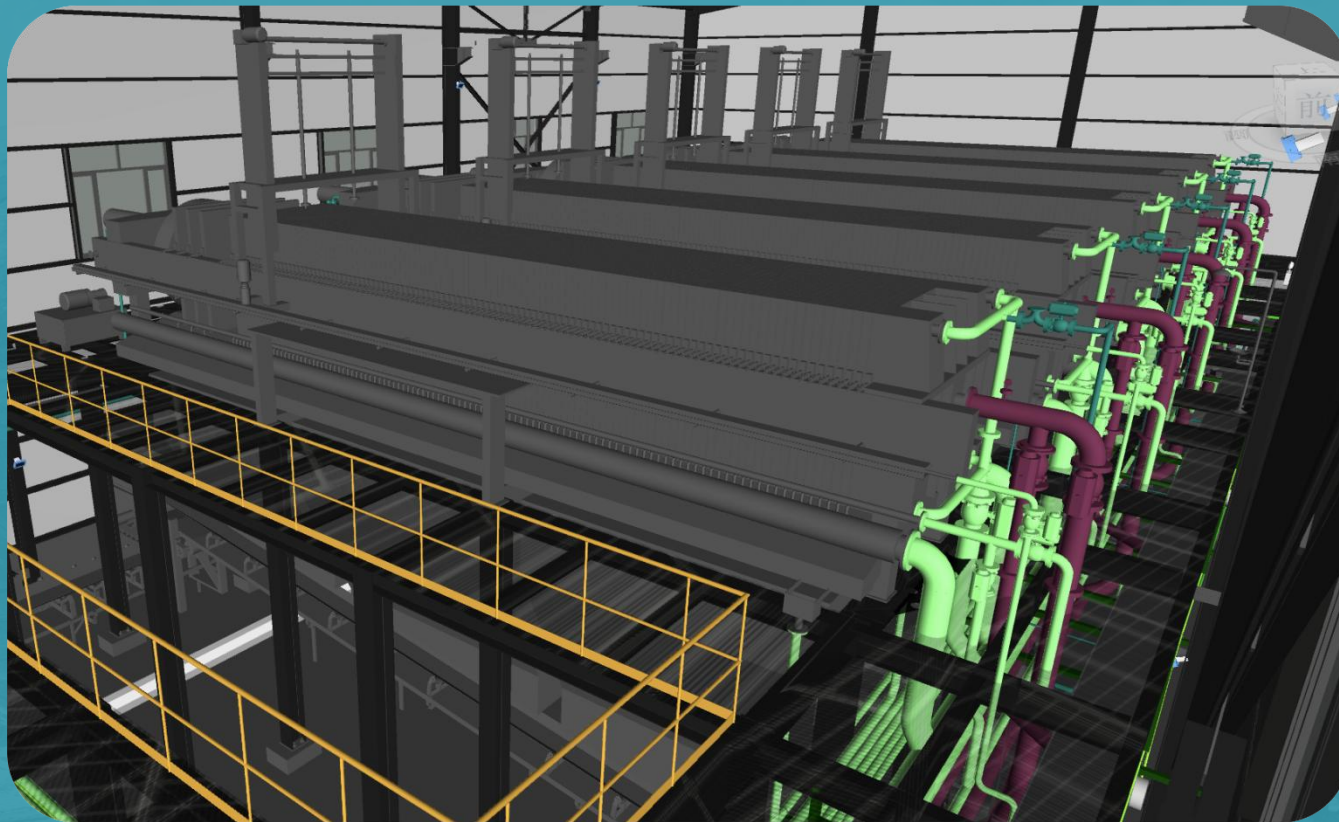
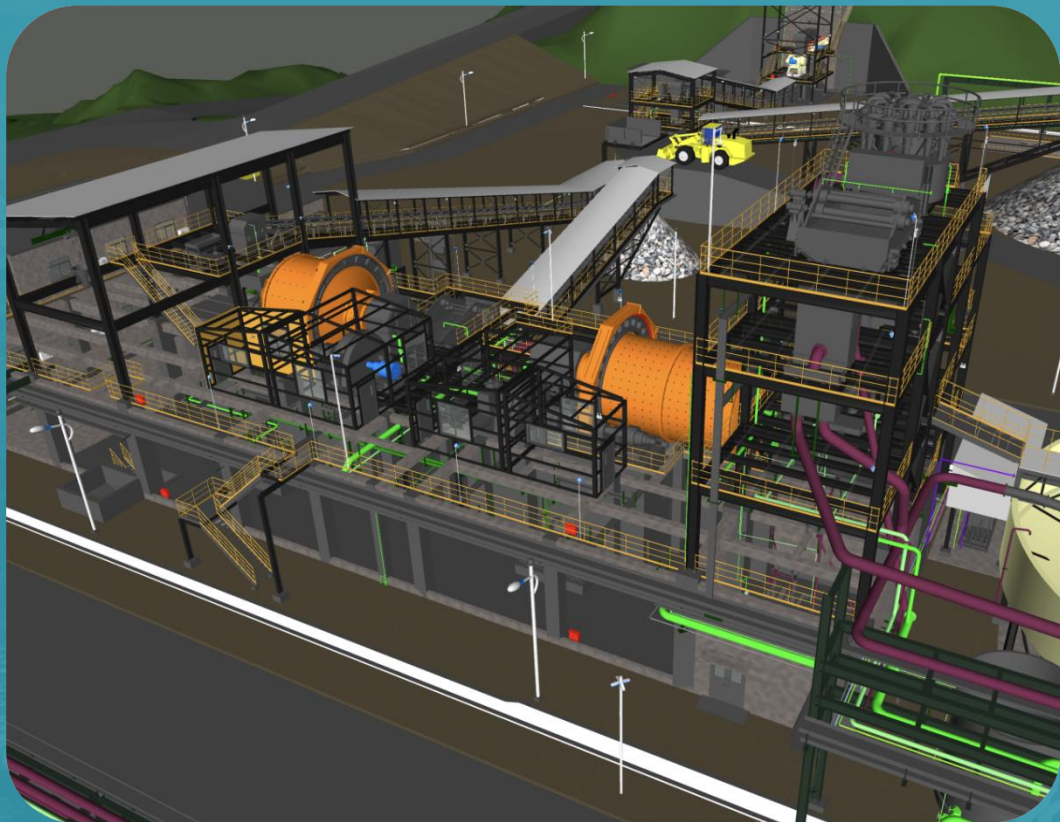
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# Engineering Design Institute

DIGITALIZATION, INTELLIGENTIZATION & INFORMATIZATION



3D Modelling

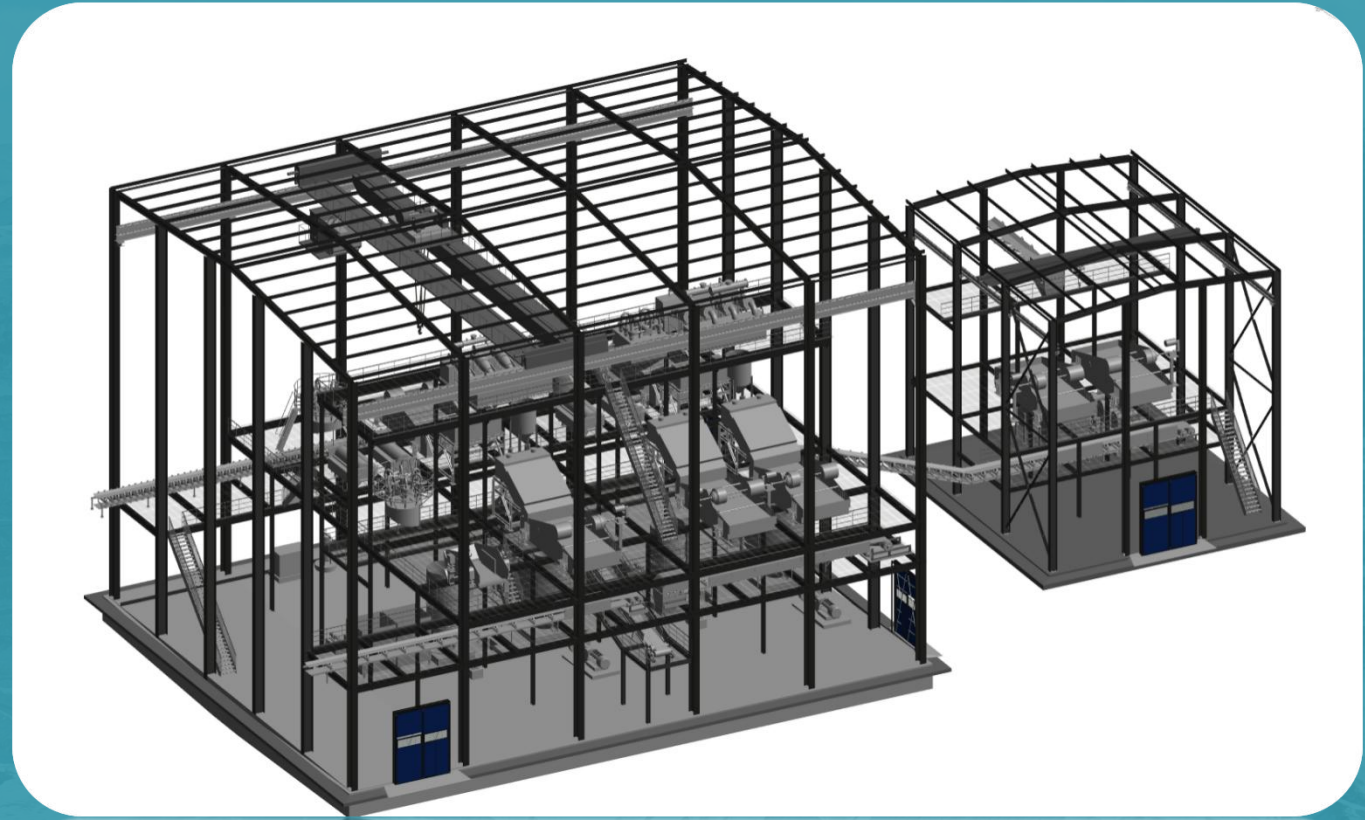
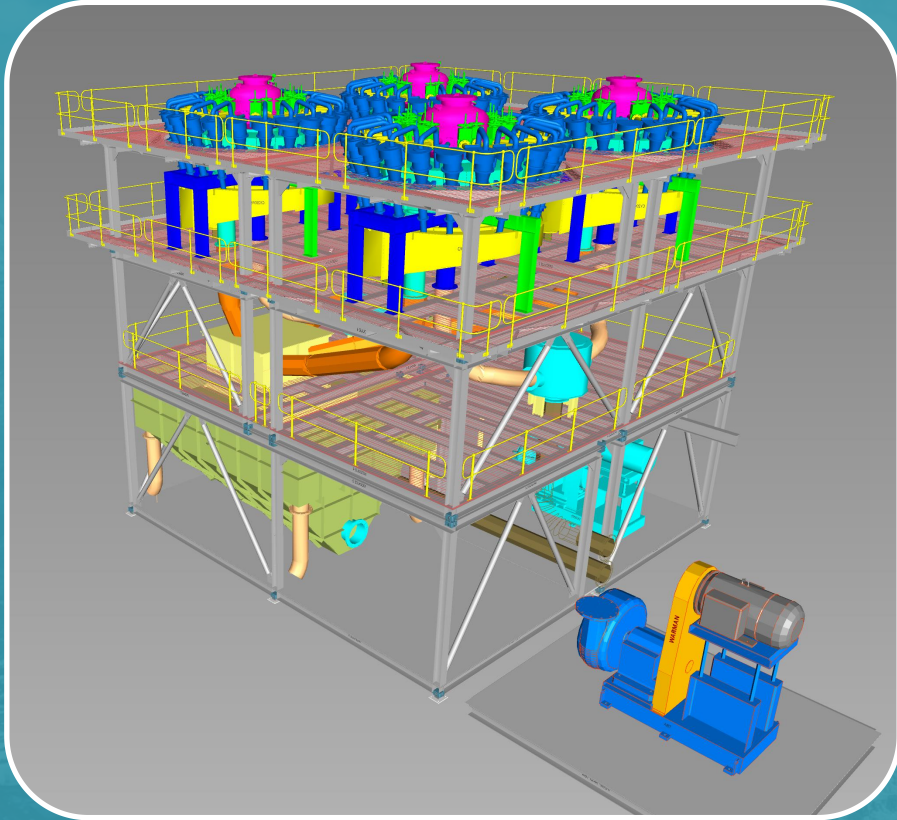
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# Engineering Design Institute

DIGITALIZATION, INTELLIGENTIZATION & INFORMATIZATION



3D Modelling

*JINPENG Mineral Processing EPC Solution*



# Talent Engineering people



## 烟台金鹏矿业机械有限公司优秀专家团队



许宝华



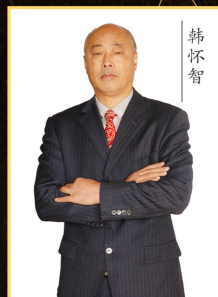
刘先鹏



付士新



满进红



韩怀智



刘永先



荆永卿



赵锡波



朱飞



刘传国



郭普金



邹积贞



胡仲英



胡春融



王祖超



初成海



潘俐进



柳志华



张歧胜



朱金生





## 烟台金鹏矿业机械有限公司售后服务团队



夏庆祝



李宜忠



高春宏



孙世贺



刘靖波



张成源



韩强



张乐友



姜德岳



王国华



谭明良



刘明祥



李培振



王仕清



### Fei Zhu

- **Graduation University:** Xi'an University of Architecture of technology
- **Major:** mineral processing
- **Title:** Ore dressing researcher, **Chief Engineer**
- **Resume:** Graduated from xi 'an university of architecture and technology in 1982, being assigned to changchun gold design institute that belongs to the ministry of metallurgical industry, during 40 years of working experience regarding mineral processing plant, desgned 3000t/d gold mine of henan zhongjin jinyuan gold co., LTD, 9500t/d phase 2 hunchun zijin shuguang gold copper mine, 2000t/d CIL plant of tiyier gold mine of China gold group, 3000t/d CIL plant of sunite jinxi mining of Inner Mongolia and other more than 30 large and medium-sized gold processing plants. won the awards from ministry of metallurgy industry, metallurgical construction society of China many times, especially for The first prize of national metallurgical industry excellent engineering design issued by China gold association.





### Pujin Guo

- **Graduation University:** North-east University
- **Major:** Mineral Processing
- **Title:** Mineral Processing Researcher
- **Resume:** Worked in changchun gold research institute for more than 20 years in mineral processing experimental research and industrial application, served as project leader for key science and technology project in the national "ninth five" and "tenth five" plan. Acted as the head of liaoning tianli biological oxidation gold extraction factory, engaged in technical research and development, technical transformation and expansion, scientific research projects and other work, Liaoning tianli biological oxidation industrial application won the second prize of national science and technology progress award, 15 provincial and ministerial science and technology progress awards, 2 invention patents, more than 10 papers was published. won the national gold industry the science and technology advanced worker in "Tenth-five" plan during , and the science and technology pacesetter in "eleventh five-year" plan and other honorary titles.



## Yongqing Jing

- **Graduation University:** Hebei Institute of Geology
- **Major:** geology
- **Title:** Senior Engineer、 assistant chief engineer
- **Resume:** After graduation in 1982, worked in Geology and mineral resources of Shandong Province, served as a geological member, drilling geological prospecting team leader, project leader etc., successively. During which , compiled *detailed geological report of Gold Deposit in Hexi in Zhaoyuan County of Shandong province and detailed geological report of middle of gold deposit in Zhaoyuan County of Shandong Province*, participated in many research on greenstone belt type , porphyry type, clay type, NMS type of typical ore deposits,being good at using geological expertise to quickly evaluate the development and utilization value of mineral deposits, especially at discovering the seriously underestimated potential mineral right value. Won the third prize for scientific and technological progress.





## Shixin Fu

- **Graduation University:** Northeastern University Gold College
- **Major:** Mining Engineering
- **Title:** Mining senior engineer, chief engineer of design institute



- **Resume:** After graduation from university in 1989, I was assigned to the canzhuang gold mine in zhaoyuan.

mainly responsible for exploration design of underground mine, the design and management work of mining method test, the transformation of eight underground systems, etc. In 2002, after being transferred to Yantai dongfang metallurgical design and research institute. He has been engaged in mining design, for nearly 100 mines of various types. possessing rich experience in on-site mining management and mining design.

## Xianpeng Liu



- **Graduation University:** Northeastern University Gold College
- **Major:** Mineral Processing
- **Title:** Mineral processing senior engineer, Deputy president of design institute
- **Resume:** From 1993-1997 worked as technician in Penglai Daliuhang Gold Mine, and participated in the extension project of 500t/d. from 1997-2005, served as senior engineer in Penglai Gold Smelting Company, and participated in the technical reform for CIL and smelting process, which won the second and third prize of national gold bureau science and technology progress. Since 2005, acting as deputy president of design institute, mineral processing senior engineer in Yantai Dongfang Metallurgical Design and Research Institute, designed more than hundreds of mineral dressing plants, such as gold, silver, copper, lead and zinc, iron, non-metallic ore etc.



## Jinhong Man

- **Graduation University:** Xi'an University Of Architecture And Technology
- **Major:** Industrial electric automation
- **Title:** Vice general manager of design institute,senior engineer
- **Resume:** in 1987 he was assigned to the Shandong Yantai Gold Design Institute, engaged in electrical design work. and involved in a number of large and medium-sized mine power supply, drag, automation engineering design projects, with a rich experience of mine design, complete sets of equipment, on-site debugging. He is the author of "variable frequency speed regulation application technology" and other training materials, and won the first shandong gold system "outstanding youth science and technology award".



## Liceng Xu

- **Graduation University:** Northeastern University Gold College
- **Major:** Mineral processing
- **Title:** Ore dressing senior engineer、 deputy general manager
- **Resume:** Working for the ore dressing, designing and researching more than 30 years, being skillful in gold, silver, copper, lead, zinc, iron, tin, tungsten etc, served as general manager and chief engineer for many mines, won "Provincial science and technology progress prize". Currently acting as deputy general manager of Jinpeng, in charge of ore dressing technical job.





## Chuanguo Liu

- **Graduation University:** Northeastern University
- **Major:** metallurgical engineering
- **Title:** Ore dressing senior engineer
- **Position:** Deputy chief engineer of design institute
- **Resume:** After graduation in 1993, he worked in Shandong Penglai Heilangou gold mine as technicians, the factory director and other job successively. Then served as chief engineer of copper tungsten molybdenum - lead-zinc polymetallic ore dressing in Gansu Qianyi mine, won first prize of scientific and technological progress in Shandong gold industrial bureau, having outstanding performance in the field of low grade refractory iron ore recovery, the Hanwang group Aoniu iron ore 2 million tons/year reconstruction and expansion project he presided was rated as a state-level green mine. Transferred to Yantai Oriental Metallurgical Design and Research Institute since 2014.



## Zhongying Hu

- **Graduation University:** Northeastern University Gold College
- **Major:** Mineral Processing
- **Title:** Ore dressing senior engineer
- **Resume:** She has been engaged in gold and nonferrous metals mine technical management for 30 years, undertaken many processing plant design modification project, especially having a in-depth study for wet recovery of gold ore, zero discharge of cyanide-bearing waste water, won three provincial scientific and technological progress awards, accumulated rich experience in processing plant management, participated in the preparation of gold system ore dressing, cyanide staff training materials. currently responsible for the technical support of jinpeng group before, during and after sales of equipment.





## Huaizhi Han

- **Graduation University:** Shandong institute of metallurgical engineering
- **Major:** Mineral Processing、 Industrial Automation
- **Title:** Senior Engineer
- **Resume:** Engaged in gold mining, zinc dust replacement, CIL plant, etc. the technology of resin leaching cyaniding process management for many years. Having rich practical experience in the field of resin leaching process, especially in-depth study of mine automation, especially in the cemented tailings filling, thickener automatic discharging, flotation automatic dosing and gained outstanding achievements



## Yongxian Liu

- **Graduation University:** Shandong institute of metallurgical engineering
- **Major:** Metallurgical machinery
- **Title:** Mechanical Senior Engineer、 Deputy general manager
- **Resume:** After graduation, served as the director of the equipment research institute in a large machinery factory and engaged in the production and design of machinery industry for more than 20 years. Got rich experience in mechanical design, installation and debugging, inspection and maintenance, etc. made many technical innovations on flotation cell, thickener, filter and other equipment, and obtained two national technical patents. He is now deputy general manager of jinpeng mining machinery co., LTD.





## Jizhen Zou

- **Graduation University:** Northeastern University
- **Major:** Mineral Processing
- **Title:** Ore dressing senior engineer
- **Resume:** Being good at a lot of ore dressing experimental study in gold, silver, copper, lead, zinc, iron, and non-metal etc. She published six papers in national professional journals and won two provincial and ministerial awards for scientific and technological progress.



### Xibo Zhao

- **Graduation University:** Jiangxi university of science and technology
- **Major:** Mineral Processing
- **Title:** Senior Engineer
- **Resume:** after graduating from university in 1987, He served as a technician in Hunan Xiangdong tungsten mine, then worked in shandong penglai Daliuhang smelter, hebei jinbao gold mine, during which obtained the rich on-site production and management experience, proficient in tungsten, copper, tin polymetallic ore dressing technology, possessing a rich experience the separation of graphite ore and fluorite ore, carried out several mill plant design, installation and commissioning work.





### Zhihua Liu

- **Graduation University:** Jiangxi university of science and technology
- **Major:** Nonferrous metallurgy
- **Title:** Senior Engineer
- **Resume:** For more than 20 years after graduation, successively worked in MouPing Hengbang group smelter, Fujian Tianbao molybdenum industry and Inner Mongolia nonferrous Jiahe as a technician and the chief engineer, possessing rich experience in the production and management, proficient in gold and silver smelting, roasting cyanide, copper, wet extraction technology for low grade gold ore heap leaching operation and technology , involved in many projects of design, installation and commissioning work.



# Manufacturing facilities

- 5 workshops with 150,000 working square meters areas
- More than 150 sets large machining lathes
- Grinding mill, classifying, thickening, flotation, leaching, elution, smelting and etc. more than 600 kinds of mineral processing equipment for processing plant
- ISO 9001:2008 Quality management system certificate, equipment with CE BV certificate



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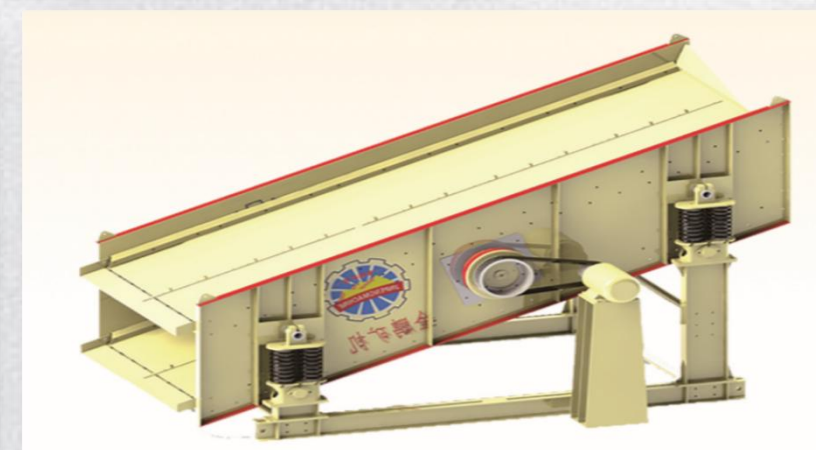
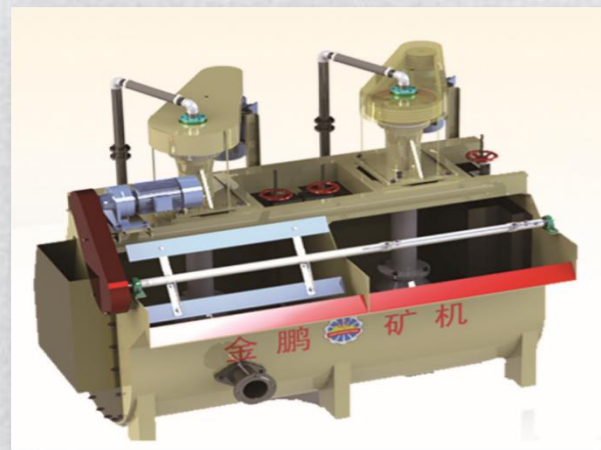
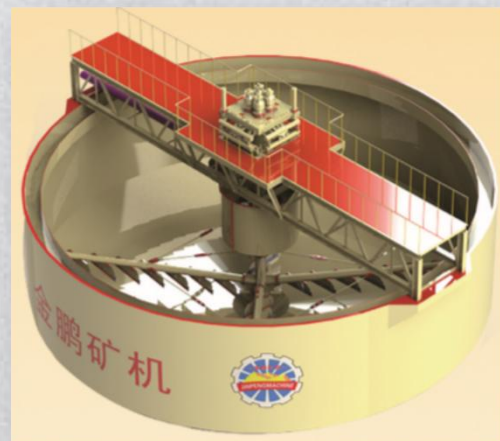
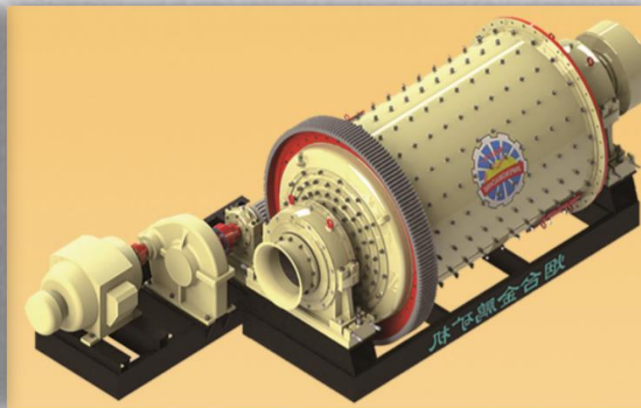
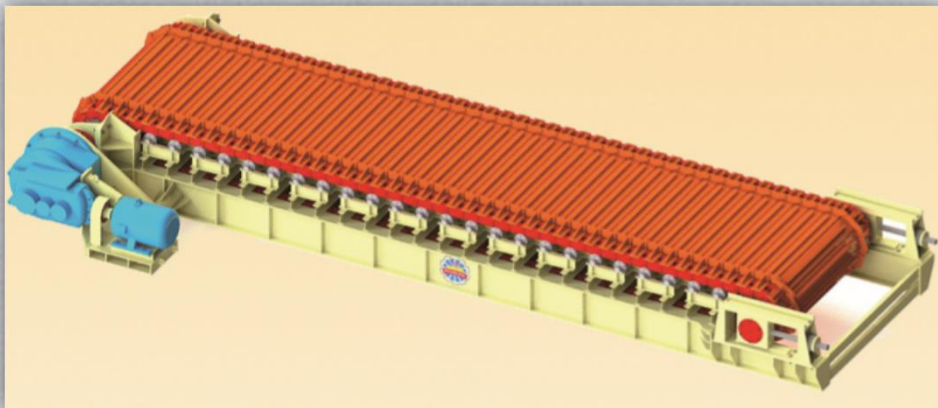
# Manufacturing facilities



***JINPENG Mineral Processing EPC Solution***



## Equipment



***JINPENG Mineral Processing EPC Solution***



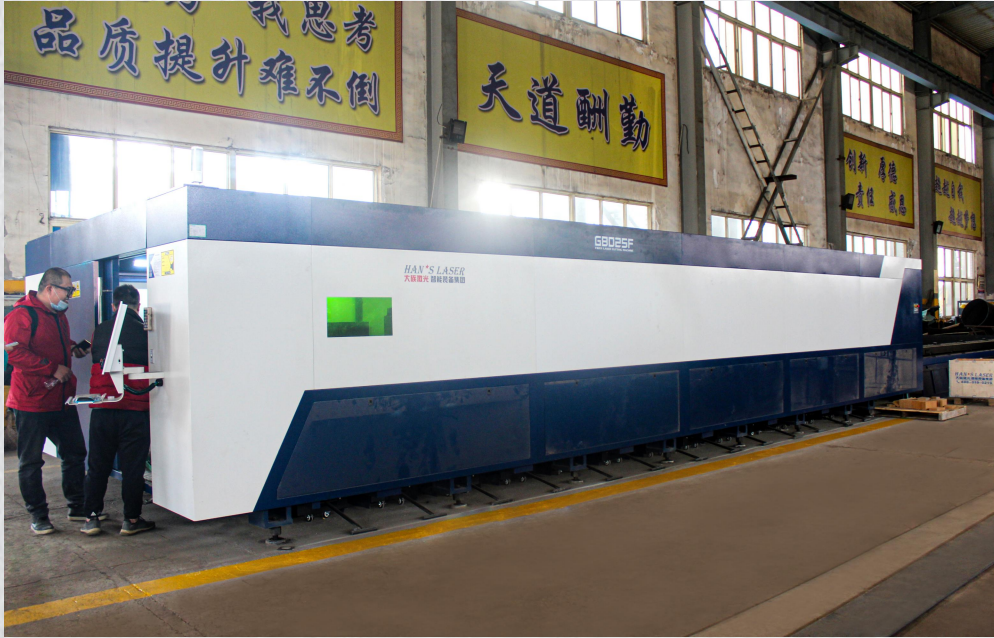
# International Certificates



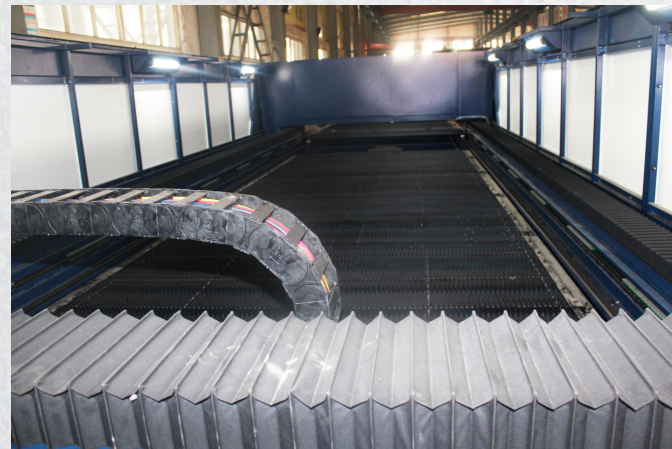
**JINPENG Mineral Processing EPC Solution**



# Manufacturing facilities



Laser cutting machine





# Manufacturing facilities



W11S-40X3200 Bending machine





# Manufacturing facilities



YN32-3150KN300 Pressing machine



Auto welding machine



# Manufacturing facilities



CK5225B/2SP vertical lathe

DVT500X31/40Q-NC 5m vertical lathe





# Manufacturing facilities



TPX6113-2 Boring machine



TBX6111B Boring machine



# Manufacturing facilities



CW61125L Long shaft lathe

Z30 100×31Dring machine





# Manufacturing facilities



Blasting machine





# Manufacturing facilities



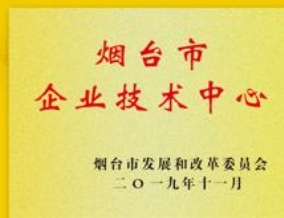
Painting room





## 金鹏集团荣誉展示

### JINPENG GROUP'S HONOR DISPLAY





# Project Achievement







## P.T. SUMBAWA JUTARAYA

Throughput: 1.2 mln tpa

Flowsheet: Crushing+ Grinding+ Gravity+ CIL+ Flotation+ Roasting+ Acid plant+ Acid wasing+ Calcine leaching+ Elution+ smelting+ Detox+ Tailing dewatering





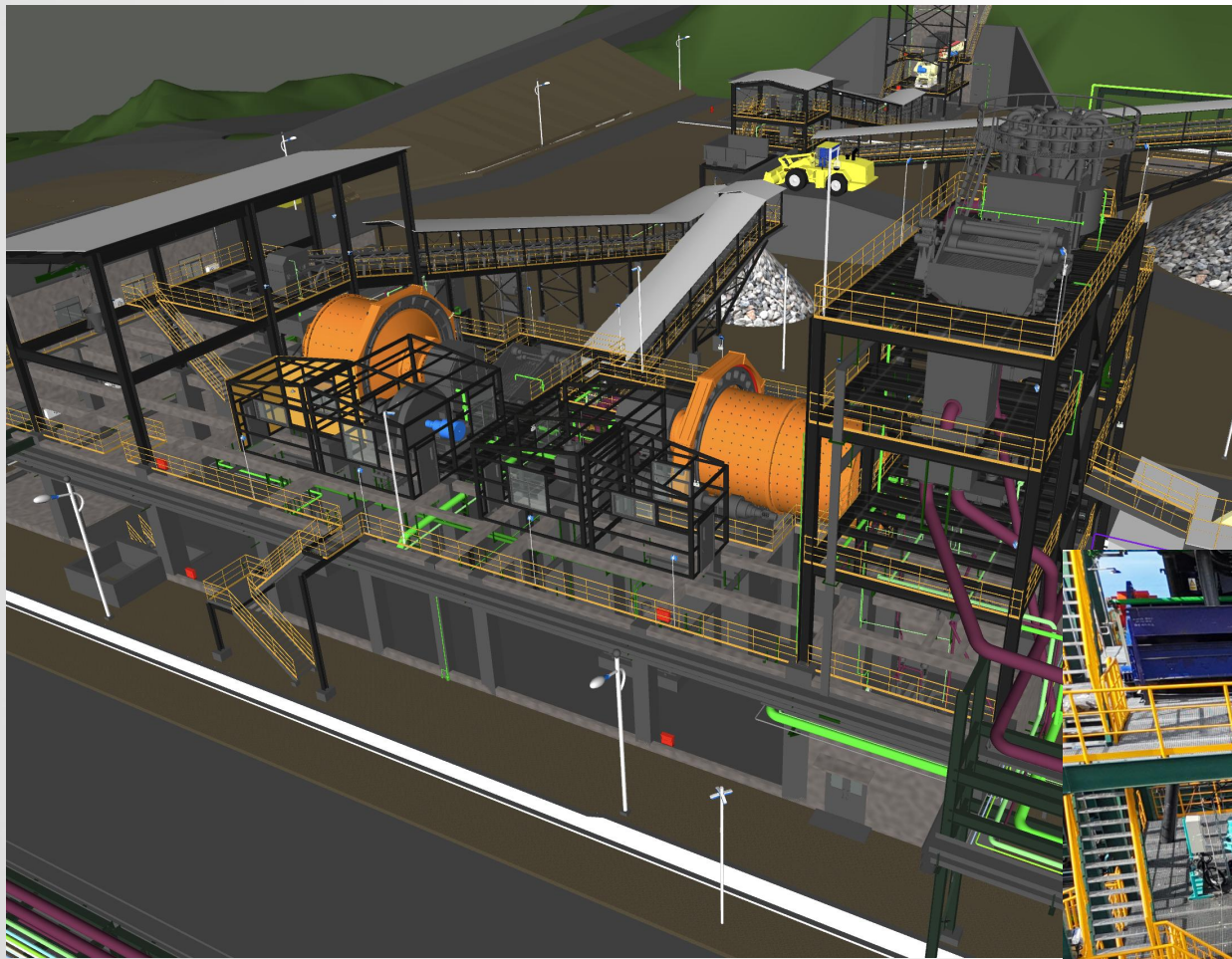




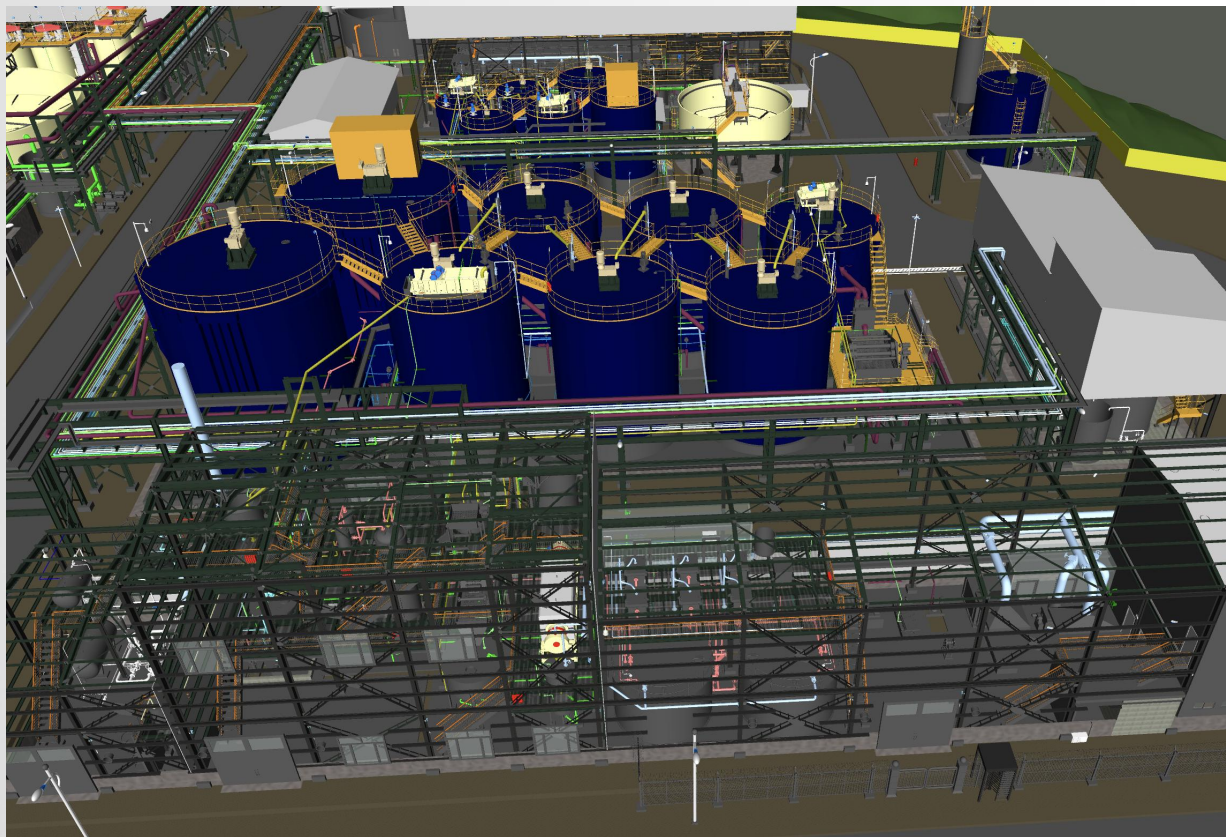
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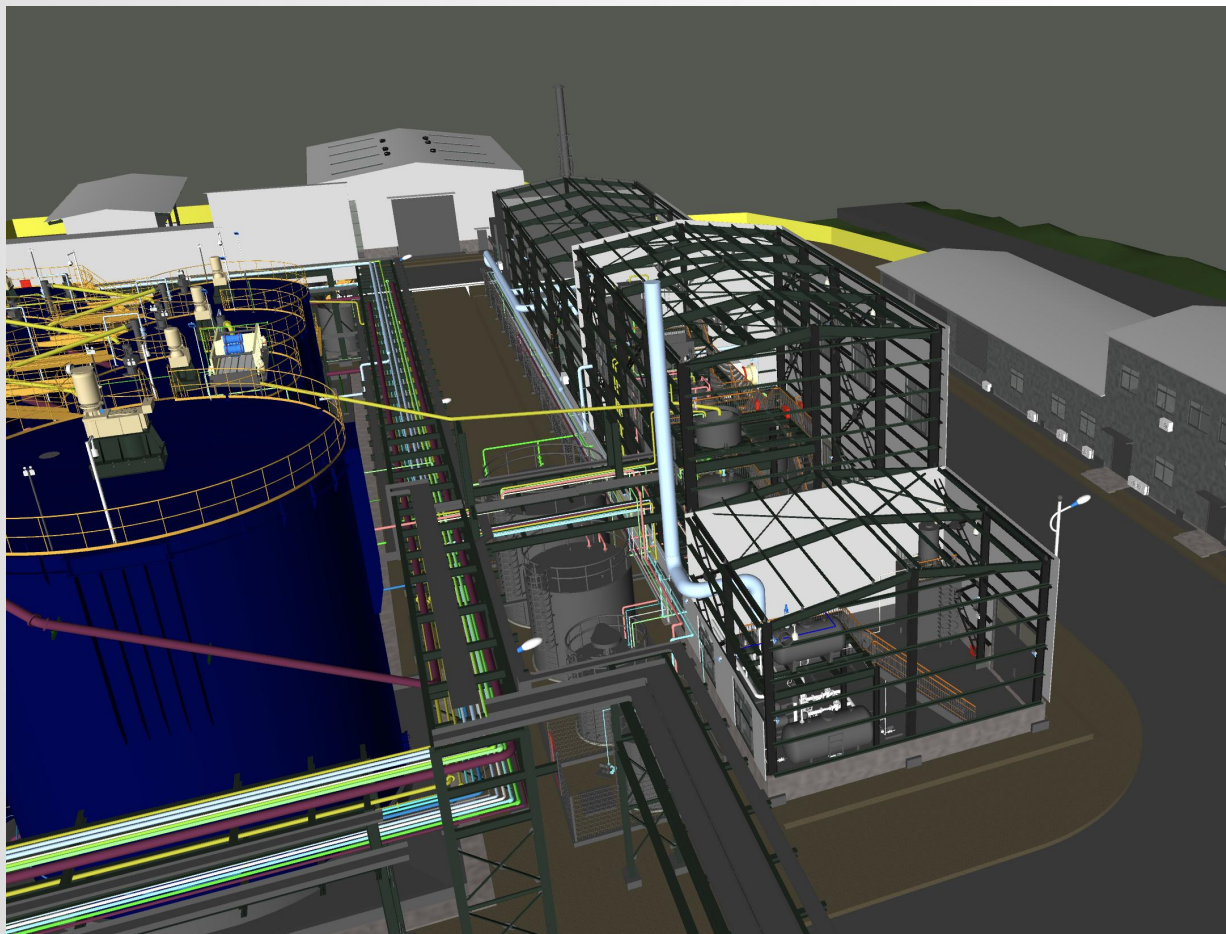




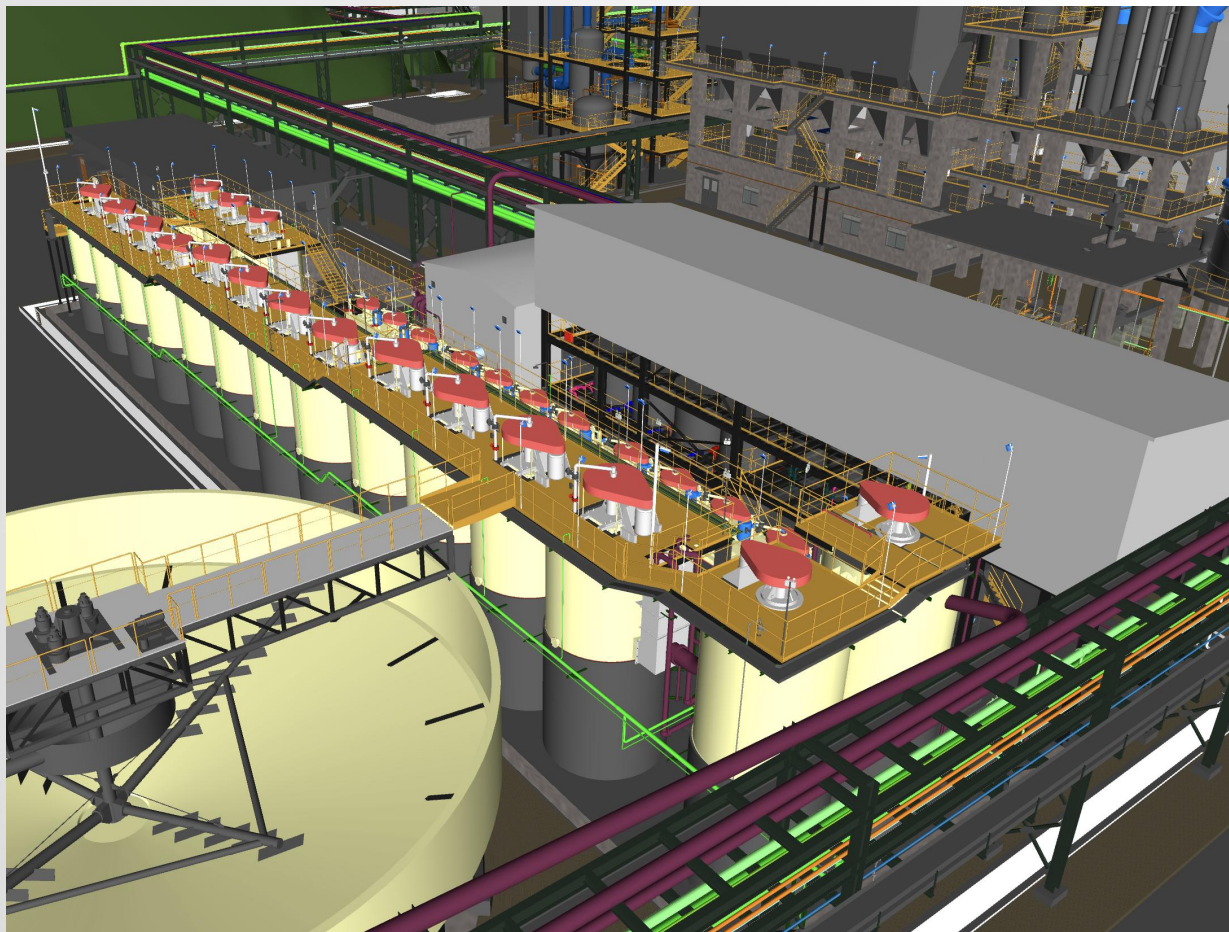




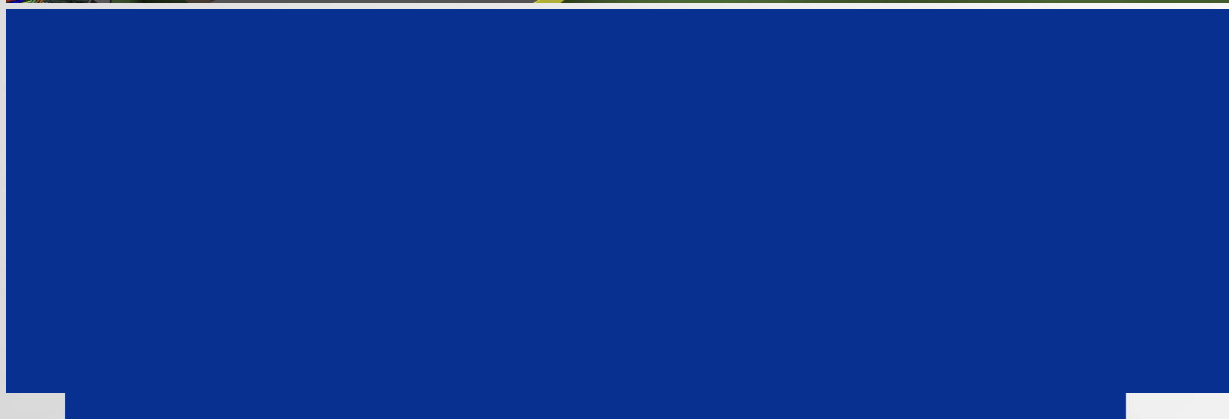
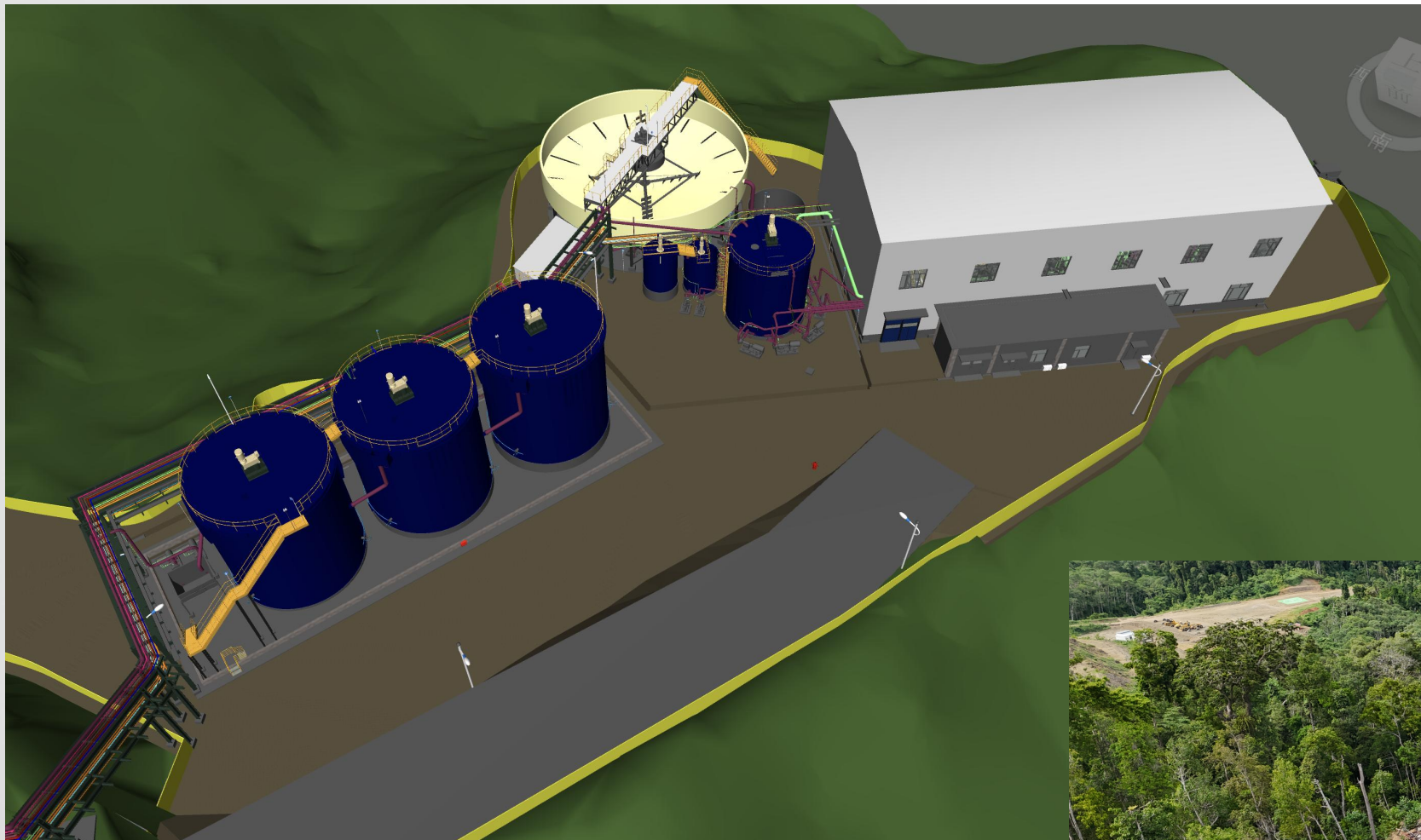
















*Project name:* **NIGERIA 1 M TPA GOLD CIL PLANT**

*Location:* Nigeria

*Ore type:* Oxide Gold Ore

*Design capacity:* 1MTPA





## Nigeria 1 MTPA Gold CIL plant

### Main process:

**Crushing:** One stage crushing with Metso C116 Jaw crusher

**Grinding:** SAB process, one stage SAG mill  $\Phi 5.5 \times 3.0\text{m}$  (1400kw) with one stage ball mill  $\Phi 4.0 \times 8\text{m}$  (2000kw)

**Gravity:** Knelson concentrator KC-QS30+ Acacia intensive leaching CS1000

**Leaching:** 48 hours 9800m<sup>3</sup> Leaching system with 10 sets  $\Phi 11\text{m} \times 11.5\text{m}$  leaching tank

**Elution and Electrowinning:** 3000kg per bath  
Product: 99.9% Gold Ingot





# Nigeria 1MTPA Gold CIL plant



Installation of SAG and Ball Mill



# Nigeria 1MTPA Gold CIL plant



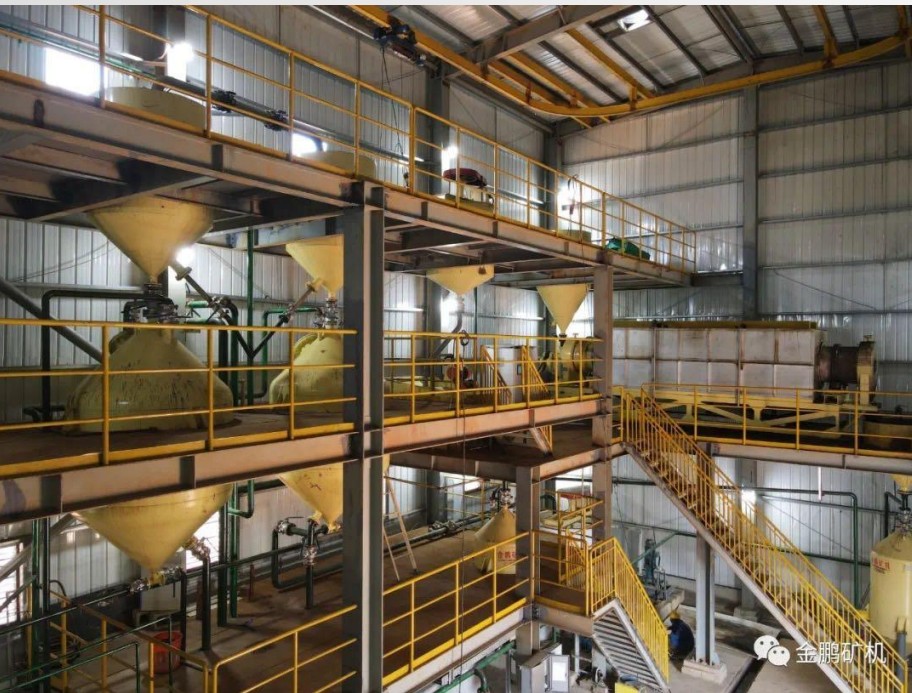
Installation of Leaching system



# Nigeria 1MTPA Gold CIL plant



金鹏矿机



金鹏矿机



金鹏矿机

Elution, Electrowinning and Gold Room





尼日利亚高压室

Nigeria 1MTPA Gold CIL plant



MCC & Central control room





**Project name:** ARMENIA 2M TPA COPPER  
FLOTATION PLANT

**Location:** Armenia

**Ore type:** Copper sulphide ore

**Design capacity:** 2,000,000 tons per annual

**Main process:**

Crushing: One stage crushing with Metso  
C150 Jaw crusher

Grinding: SABC process, one stage SAG mill  
Φ7\*3.2m (2300kw) with one stage ball mill  
Φ4.27m\*7.32m (2000kw)

Copper Flotation:

Rougher flotation- 6 sets 50 m<sup>3</sup> flotation cells

Scavenger flotation- 5 sets 50 m<sup>3</sup> flotation  
cells

Cleaner flotation- 19 sets 10 m<sup>3</sup> flotation cells

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Product: 25% copper concentrate



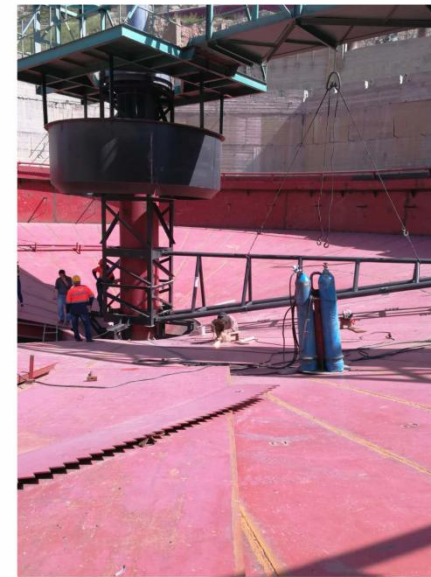
# Armenia 2m tpa copper flotation plant lant



Equipment delivery



# Armenia 2m tpa copper flotation plant lant



Equipment installation and in operation





Zambia 110tph copper flotation plant





Crushing: Three stages crushing(Jaw+Cone+Cone) with one single closed circuit

Grinding: One stage ball mill  $\Phi 3254$  with 1000Kw motor

Sulphide Copper Flotation:  
Rougher+ Scavenger flotation- 8 sets 30 m<sup>3</sup> flotation cells  
Cleaner flotation- 5 sets 8 m<sup>3</sup> flotation cells

Oxide Copper Flotation:  
Rougher+ Scavenger flotation- 13 sets 30 m<sup>3</sup> flotation cells  
Cleaner flotation- 5 sets 8 m<sup>3</sup> flotation cells

Product: 25% copper concentrate

**Project name:** Zambia 110tph copper flotation plant

**Location:** Zambia, Africa

**Ore type:** Oxide & sulfide copper ore

**Design capacity:** 110tph





# Zambia 110tph copper flotation plant



*Equipment delivery*

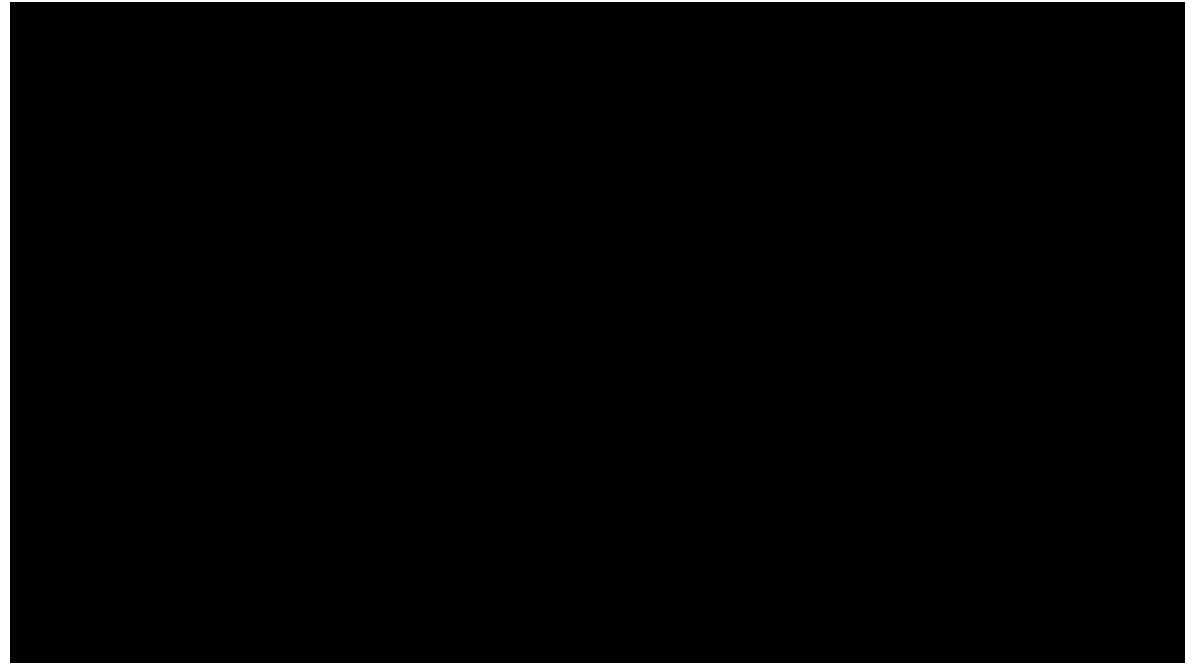




**Project name:** Zambia 110tph copper flotation plant  
**Location:** Zambia, Africa  
**Ore type:** Oxide & sulfide copper ore  
**Design capacity:** 110tph







**Project name:** Zambia 110tph copper flotation plant  
**Location:** Zambia, Africa  
**Ore type:** Oxide & sulfide copper ore  
**Design capacity:** 110tph







**Project name:** HUNAN 12,000 TPD LEAD & ZINC PLANT

**Location:** China

**Ore type:** Lead and Zinc

**Design capacity:** 12,000 tons per day

**Main process:**

Crushing: One stage Jaw crusher with one stage Impact crusher

Grinding: One stage grinding with 3 sets of 3645 ball mill

Rougher+ Scavenger flotation- 69 sets 16 m<sup>3</sup> flotation cells  
Cleaner flotation- 21 sets 10 m<sup>3</sup> flotation cells



Hunan 12,000 tpd lead & Zinc plant





6000tpd Tin processing plant, Bolivia

Raw ore grade: 2-3%,

Recovery: 92%





# 6000tpd Tin processing plant, Bolivia





# Thanks for your watching !

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**Contact Number: Elva +8615288799786**