



方园筛网 中国荣耀 全球矿业 精选有我  
Fangyuan Screen Glory of China Global Mining Beneficiation Expert

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**MULTIDECK**  
**High Frequency Screen**  
多叠高频筛



**方园（安徽）智能装备有限责任公司**  
FANGYUAN (ANHUI) INTELLIGENT MINING EQUIPMENT CO., LTD.



**FANGYUAN**  
**安徽方园**  
全球矿业·精选有我



## 企业概况 COMPANY PROFILE

方园(安徽)智能装备有限责任公司位于素有“中国碳谷”之称的能源城市——安徽省淮北市。厂区坐落在安徽省淮北市龙湖高新经济开发区。公司是“国家级高新技术企业”，是ISO三体系认证企业。

经过几十年的奋斗，目前公司有三个厂区：筛分设备制造厂、聚氨酯精细筛网制造厂、筛板（金属、非金属）制造厂。产品覆盖金属选矿、非金属选矿、选煤、建材等多个行业，主要包括：叠层高频筛、高频筛、直线筛、分级旋流器、聚氨酯精细筛网、聚氨酯和橡胶筛板、金属筛网与筛板及各种筛分设备配件。

方园公司成立伊始，便创建了科技研发中心，组建科研团队，致力于开展“产学研”活动。先后与北京航空航天大学、中国矿业大学、安徽理工大学、淮北师范大学等高等院校及周边大型国有企业进行合作，不断引进人才，开发新产品、生产新工艺。其中与北京航空航天大学合作研发的聚氨酯精细筛网获得两项国家发明专利，打破了聚氨酯精细筛网进口的垄断地位；与中国矿业大学、山东新汶集团新巨龙选煤厂联合开展的“降低重选下限粗精煤泥直接回收”的工艺技术研究获得“国家科技成果”奖。

Fangyuan (Anhui) Intelligent Mining Equipment Co., Ltd. has been rated as a National High Tech Enterprise, located in Hua-ibei Hi-tech Economic Development Zone, Huaibei is the "China Carbon Valley • Green Gold Huaibei" energy city. Fangyuan is rated as a National High-tech Enterprise and achieves ISO Three System certification.

After decades of efforts, at present, there are three factories in Fangyuan, namely vibration equipment factory, screen panels factory and rubber screen panels factory. The products cover metal mineral processing, non-metal mineral processing, coal preparation, building materials and other industries, mainly including: multi-deck high frequency screen, high frequency screen, linear screen, classifying cyclone, polyurethane fine screen mesh, polyurethane and rubber screen panels, metal screen meshes and screen panels and other various screening equipment accessories.

At the beginning of its establishment, Anhui Fangyuan has established an enterprise R&D center with complete facilities and a high-level scientific research team. It is committed to carrying out "production, learning and research" activities. It has successively cooperated with Beihang University, China University of Mining and Technology, Anhui University of Science & Technology, Huaibei Normal University and other large-scale state-owned enterprises in the surrounding areas to continuously introduce talents, develop new products and new production processes. Fangyuan developed polyurethane fine screen mesh cooperating with Beihang University to break the monopoly of imported products. We worked with China University of Mining & Technology to work on reducing the limit of gravity concentration project, which achieved the "National Science & Technology Achievement Award".

全球矿业 精选有我 诚信铸企业 科技铸精品

Global Mining Beneficiation Expert To Develop The Enterprise On Trust To Make the Products With Technology



## 国家专利技术认证

National Patent Technology Certification



方园承诺为用户提供优质，高效，节能，环保的产品和服务

Fangyuan promises to provide clients with high-quality, high-efficient, energy-saving and environmental protection products and services.

## 产品简介

### Product Introduction

方园 FY-HVS 系列高频叠层振动细筛是由方园公司引进国外先进技术研制出的湿式细粒物料筛分设备,其特征如下:

- 筛机主体采用铆钉铆接,保证了设备长期运行的可靠性和稳定性,减少了维护次数和劳动量。
- 筛机表面整体采用聚脲喷涂技术进行处理,增加了设备的耐磨性和防腐性,延长设备使用寿命。
- 使用自主开发的聚氨酯精细筛网(最小 0.075mm),筛网不易堵孔,五路同时给料,处理量大,筛分效率高。

Fangyuan FY-HVS Multideck High Frequency Screen is a wet fine material screening equipment developed by Fangyuan company with foreign advanced technology. Its features are as follows:

- The main parts of screen are riveted with rivets, ensuring the reliability and stability of long term operation, reducing maintenance times and the labor amounts.
- The surfaces are sprayed with polyurea, increasing the wear resistance and corrosion protection, extending the service life of the equipment.
- Matched with the fine screen mesh (Fangyuan's innovation minimum aperture is 0.075mm), the screen has 5 feeding ways, enlarging the handling capacity and the screening efficiency.



**FY-HVS-1520 五层高频筛**  
FY-HVS-1520 Five-deck High Frequency Screen

## 产品简介

### Product Introduction



**FY-HVS-2820 八层高频筛**  
FY-HVS-2820 Eight-deck High Frequency Screen



**FY-HVS-10-1214 十层高频筛**  
FY-HVS-10-1214 Ten-deck High Frequency Screen

## FY-HVS-系列多叠高频筛机主要技术参数

### FY-HVS Series Multideck High Frequency Screen Technical Data

| 型号<br>Model    | 筛分面积<br>Sieving Area<br>(m <sup>2</sup> ) | 振幅<br>Amplitude<br>(mm) | 功率<br>Power<br>(kW) | 处理量<br>Handling Capacity<br>(t/h) | 筛机倾角<br>Sieving Obliquity<br>(°) | 给矿浓度<br>Feeding Concentration | 外型尺寸<br>Figure Size<br>(mm) |
|----------------|-------------------------------------------|-------------------------|---------------------|-----------------------------------|----------------------------------|-------------------------------|-----------------------------|
| FY-HVS-1120    | 1.4                                       | 0-2                     | 2×1.0               | 8-15                              | 17.5°-20°                        | 30-45%<br>200-400g/L          | 2450×1481×2170              |
| FY-HVS-1320    | 4.3                                       | 0.8-2                   | 2×1.8               | 20-40                             |                                  |                               | 3850×1510×3715              |
| FY-HVS-1420    | 5.8                                       | 0.8-2                   | 2×1.8               | 30-55                             |                                  |                               | 4590×1510×4085              |
| FY-HVS-1520    | 7.3                                       | 0.8-2                   | 2×1.8               | 40-70                             |                                  |                               | 5160×1510×4450              |
| FY-HVS-2220    | 3.5                                       | 0-2                     | 2×1.0               | 20-35                             |                                  |                               | 3615×1710×3355              |
| FY-HVS-2320    | 5.2                                       | 0.8-2                   | 2×1.8               | 30-50                             |                                  |                               | 3850×1710×3715              |
| FY-HVS-2420    | 7.0                                       | 0.8-2                   | 2×1.8               | 40-60                             |                                  |                               | 4590×1710×4085              |
| FY-HVS-2520    | 8.7                                       | 0.8-2                   | 2×1.8               | 50-85                             |                                  |                               | 5160×1710×4450              |
| FY-HVS-1130    | 2.1                                       | 0-2                     | 2×1.0               | 8-15                              |                                  |                               | 3450×1550×2620              |
| FY-HVS-1230    | 4.3                                       | 0-2                     | 2×1.0               | 15-30                             |                                  |                               | 4650×1580×3560              |
| FY-HVS-1330    | 6.5                                       | 0.8-2                   | 2×1.8               | 20-40                             |                                  |                               | 5430×1580×4120              |
| FY-HVS-1430    | 8.7                                       | 0.8-2                   | 2×1.8               | 30-55                             |                                  |                               | 5910×1580×4530              |
| FY-HVS-1530    | 10.95                                     | 0.8-2                   | 2×1.8               | 40-70                             |                                  |                               | 6395×1580×4940              |
| FY-HVS-2820    | 15.68                                     | 0.8-2                   | 2×1.8               | 75-125                            |                                  |                               | 6020×1896×4922              |
| FY-HVS-10-1214 | 17.52                                     | 0.8-2                   | 2×3.2               | 90-140                            |                                  |                               | 4987×1776×5464              |

注:处理量以金属选矿的中矿密度计算

Mark: The handling capacity is calculated by the middlings density of metal mines

### 应用范围 Application

#### ■ 粗煤泥分选

Coarse coal slime separation

#### ■ 从砂中脱除高比重杂质

Removing the high specific gravity impurities from ore sand

#### ■ 末煤脱除硫铁矿

Removing the pyrite from fine coal

#### ■ 矿砂分级

Ore sand separation & grading

#### ■ 从砂中脱除褐煤/泥煤

Removing the high specific gravity impurities from ore sand

#### ■ 锡,铅,锌,钛等细粒级矿物分选

Separation of tin, lead, zinc, titanium and other fine-grained

方园 FY-DWG 系列脱水筛适用于浓度小于 50% 的矿浆中粗颗粒等杂质的筛分,处理量大、占地面积小,对给矿粒度、浓度的波动适应性强,各运动部件的运转速度较慢,磨损和故障率很低,工作可靠、操作维护简单。应用于大颗粒矿石及杂物的隔渣筛分,可用于煤炭、冶炼、建材、化工等其它需要除渣的领域。

Fangyuan FY-DWG Dewatering Screen is suitable for screening impurities such as coarse particles in pulp with concentration less than 50%. It has large processing capacity, small footprint, strong adaptability to fluctuation of feed particle size and concentration, slow operation speed of all moving parts, low wear and failure rate, reliable operation and simple operation and maintenance. It can be used in coal, smelting, building materials, chemical industry and other areas requiring slag removal.



**FY-DWG-1130 高频脱水筛**  
FY-DWG-1130 Dewatering Screen



**FY-HVS-1120 单层筛**  
FY-HVS-1120 - One-deck Screen



**FY-HVS-1420 四层筛**  
FY-HVS-1420 - Four-deck Screen



**FY-HVS-1520 五层筛**  
FY-HVS-1520 - Five-deck Screen for coal preparation



**FY-HVS-1530 五层三段筛**  
FY-HVS-1530 - Five-deck & Three-part Screen

FY - HVS - 1 5 2 0  
DWG

FY-HVS-1520-Five-deck Screen for coal preparation

版本: 0- 标准型, 1、2、3... 定制  
Version: 0- Standard 1.2.3... Customized

每层筛网数量: 2- 两段, 3- 三段  
Screen mesh quantity of each deck: 2- Two parts 3- Three parts

筛机层数: 1-2-3-4-5-8 层筛  
Deck Qty. of screen: 1-deck, 2-deck, 3-deck, 4-deck, 5-deck, 8-deck

筛网宽度: 1-1000mm, 2-1200mm, 4-1400mm  
Screen Mesh width 1-1000mm, 2-1200mm, 4-1400mm

产品类型: HVS- 高频叠层筛 DWG- 高频脱水筛  
Product Type: HVS- Multideck High Frequency Screen DWG- Dewatering Screen

安徽方园简称  
Anhui Fangyuan



FY-SIEVE- 聚氨酯精细筛网

FY-SIEVE Polyurethane Fine Screen Mesh

核心技术：聚氨酯精细筛网两项国家发明专利  
纤维增强聚氨酯精细筛网及其成型方法  
(荣获第十八届国家发明专利金奖)

When installed and fixed, they can not be in tight shape, mesh surface separation rate and using life, as a result and using life, as a result, they can not remove

FY-SIEVE- 系列聚氨酯精细筛网参数

FY-SIEVE series Polyurethane Fine Screen Mesh Technical Data

| 序号<br>No | 规格尺寸 (mm)<br>Specification | 孔径 (mm)<br>Aperture                                                                                  | 开孔率 (%)<br>Open Area | 重量 (kg)<br>Weight |
|----------|----------------------------|------------------------------------------------------------------------------------------------------|----------------------|-------------------|
| 1        | 1050x702                   | 0.075 0.1 0.125 0.15<br>0.18 0.2 0.21 0.23<br>0.25 0.3 0.32 0.35<br>0.43 0.5 0.6 0.7<br>0.85 1.0 1.5 | 32%~42%              | 1.51~2.5          |
| 2        | 1220x702                   |                                                                                                      |                      |                   |
| 3        | 1245x702                   |                                                                                                      |                      |                   |
| 4        | 1245x840                   |                                                                                                      |                      |                   |
| 5        | 1450x840                   |                                                                                                      |                      |                   |
| 6        | 1400x1000                  | 其他尺寸可定制                                                                                              |                      |                   |

FY-SIEVE- 系列聚氨酯精细筛网型号说明

FY-SIEVE series Polyurethane Fine Screen Mesh Model Description



FANGYUAN HIGH FREQUENCY SCREEN

FY-SIEVE- 系列聚氨酯精细筛网的特征及优势

FY-SIEVE Polyurethane Fine Screen Mesh Features&Advantages

方园公司生产的聚氨酯精细筛网采用进口聚氨酯材料，特殊配方，内置增强骨架，整体一次浇注成型，耐磨防腐，能承受强大的横向拉应力，从筛网两侧直接拉紧安装固定在筛框上。而拼接筛网不能承受张紧拉力，只能用托网固定在筛框上。与拼接筛网相比，方园公司生产的 FY-SIEVE- 聚氨酯精细筛网具有强大的技术优势：

整体一次浇注成型

开孔率高 (32%—42%)，筛缝采用锥孔设计，不易堵孔。

筛分效率高，处理量大。

内置增强骨架，提高筛网抗拉强度。

筛网直接拉紧固定安装在筛框上，筛丝绷紧，筛缝不变形。

筛分分级精确，使用寿命延长。

进口聚氨酯材料，严谨的材料配方，弹性、柔性增强，耐磨防腐。

Polyurethane fine screen mesh made by Fangyuan adopts imported polyurethane raw material, special formula, reinforcement frames, it is cast into shape at one time, it is wear-resistant and corrosion-resistant and can bear strong transverse tensile stress. It is directly tightened from both sides of the screen and fixed on the screen frame. However, the splicing screen mesh can not bear the tension and can only be fixed on the screen frame with the supporting screen mesh. Compared with the splicing screen mesh, FY-sieve polyurethane fine screen mesh produced by Fangyuan has strong technical advantages:

One-time casting and forming of the whole screen mesh.

The opening rate is high (32% - 42%), and the screen slot is designed with taper shape, which is not easy to block.

The screening efficiency is high and the handling capacity is large.

Aramid yarn frames are built-in to improve the tensile strength of screen.

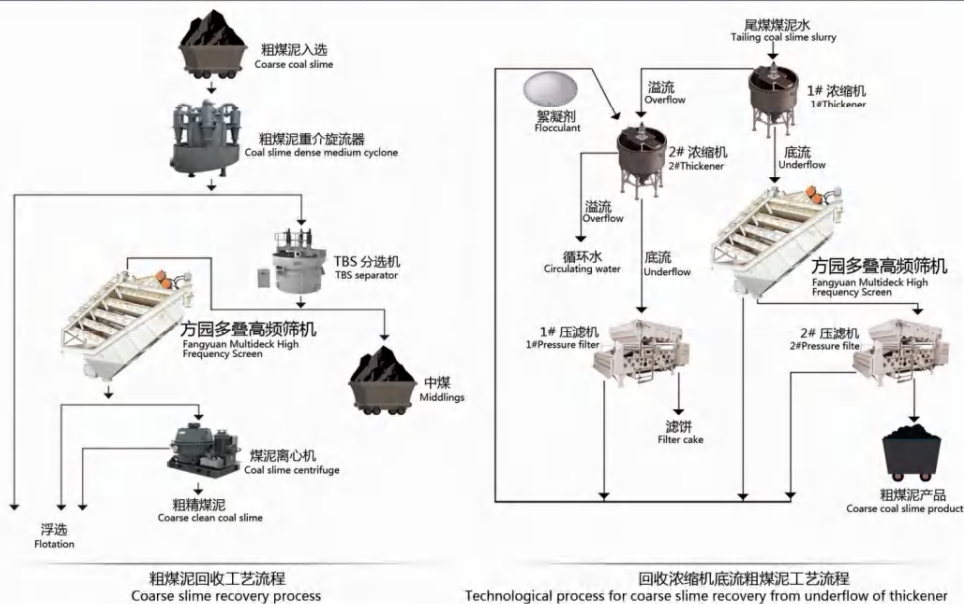
The screen mesh is directly tightened and fixed on the frame, the screen wires are tight and the screen slots are not deformed.

The screening and grading are accurate and the service life is prolonged.

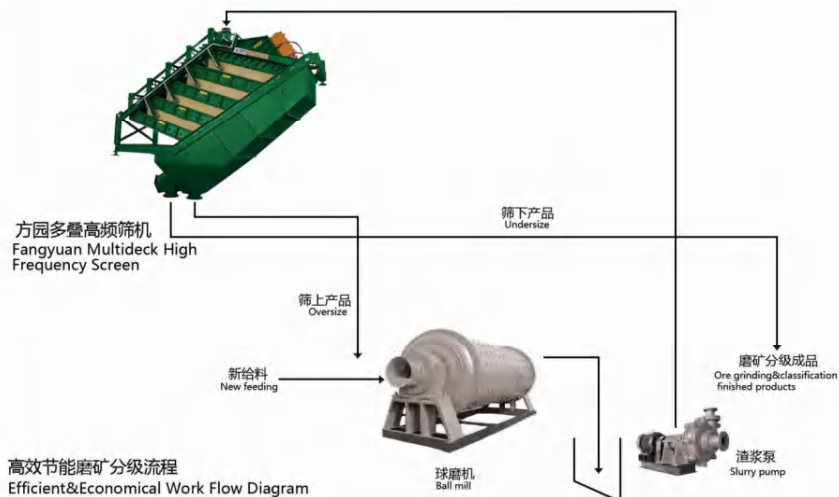
Imported polyurethane raw material, exact material formula, improving elasticity and flexibility, wear resistance and corrosion resistance.



## 工艺流程图 Process flow chart



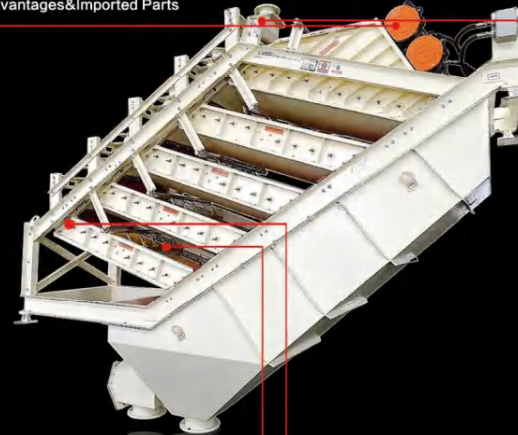
粗煤泥分选一般流程（根据煤质不同，工艺流程不同，我公司可根据粗煤厂的实际情况，设计合理流程）  
Coarse Coal Slime Separation General Flowchart (processing will be changed depending on difference of the coal. Fangyuan can design the suitable flowcharts along with the actual situations of the coal-dressing plants.)



## FANGYUAN SCREEN GLORY OF CHINA

### 优势及进口组件

#### Advantages & Imported Parts



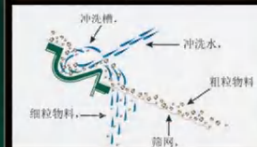
进口振动电机  
Imported Motor

筛机采用两进口振动电机，保证筛机长期运行的稳定性和可靠性，使用寿命长达 40000 小时。筛机采用垂直堆叠设计，多层筛框同时工作，占地面积小，处理量大。  
The screen machine adopts two imported vibration motors to ensure the stability and reliability of the screen machine for long-term running, its using life is as long as 40000 hours. The screen machine is designed with vertical stacking shape, multideck screen frames work at the same time with small floor area and large handling capacity.



喂料器  
Feeder

喂料器五路同时给料，提升筛分效率，内附高强度耐磨橡胶，外部使用聚氨酯喷涂技术，提高使用寿命，减少维护次数，增加产量。  
Five-way feeders feed the materials at the same time to improve the screening efficiency, high strength wear-resistant rubber are lined inside and polyurea are sprayed outside in order to improve service life, reduce maintenance times and increase production output.



二次造浆系统  
Re-pulp system

筛面采用两段，三段式，增加二次，三次造浆，经过第一张筛网筛分，筛面物料浓度增大，不利于筛分，通过二次造浆槽和喷水系统的配合，使物料达到利于筛分的浓度，提高了筛分效率。  
The screen surface of the re-pulp system adopts two-part type, which increases the secondary p-ulping trough. After the first screen mesh screening, the material concentration on the screen surface increases, which is not conducive to screening. Through the cooperation of the re-pulp trough and the spraying system, the material reaches the suitable concentration for screening, in this way, the screening efficiency is greatly improved.



哈德洛克螺母  
Hardlock nut  
哈克钉拉铆  
Huck rivet

筛机主体采用哈克钉拉铆，日本进口哈德洛克螺母（高铁、轮船、飞机上使用）固定主体包证设备长期运行的可靠性和稳定性，减少维护次数和工人的劳动量。  
The main body of the screen machine is riveted by Huck screws, and fixed by Japan's imported hardlock screws and nuts (used on high-speed railway, ships and airplanes), so as to ensure the reliability and stability of the long-term operation of the equipment, reduce the maintenance times and the labor volume of the workers.



聚氨酯精细筛网  
Polyurethane Fine Screen Mesh



分料器内部  
Divider Inside

方园料浆分配器内部采用高耐磨衬胶，延长使用寿命。  
High wear-resistant rubber lining is used in the side of slurry divider to prolong the servellife.



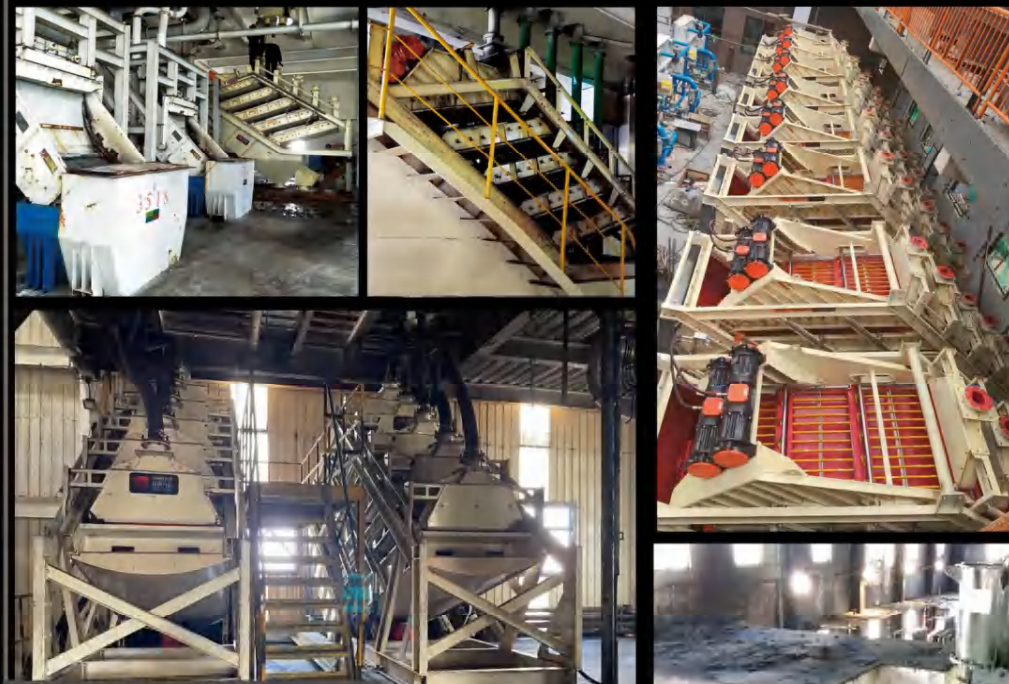
选矿部分应用现场

Application sites of mining ores



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选煤部分应用现场

Application sites of coal mining



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PERFECT-AFTER-SERVICE

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## 方园（安徽）智能装备有限责任公司

FANGYUAN (ANHUI ) INTELLIGENT MINING EQUIPMENT CO.,LTD.



### 方园(安徽)智能装备有限责任公司

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## 关于方园 → ABOUT FANGYUAN



价值观: 诚信, 合力, 创新, 共赢。

Values: Integrity, Cooperation, Innovation, Win-Win.

使命: 追求卓越品质, 助力矿业发展。

Mission: Pursue excellent quality and help the development of the mining industry.

愿景: 以先进技术为依托, 做矿业筛分领域的引领者。

Vision: Relying on advanced technology, to be the leader in the field of mining screening.

公司产品覆盖金属矿山、非金属矿山、选煤、建材等多个行业, 方园公司成立伊始, 创建了科技研发中心, 组建科研团队。其中与北京航空航天大学合作研发的聚氨酯精细筛网获得两项国家发明专利, 与中国矿业大学、山东新汶集团新巨龙选煤厂联合开展的“降低重选下限粗精煤泥直接回收”的工艺技术研究获得“国家科技成果”奖。

The company's products cover metal mines, non-metal mines, coal preparation, building materials and other industries. At the beginning of its establishment,

AnhuiFangyuan established an enterprise R&D center with complete facilities and a high-level scientific research team. Among them, the polyurethane fine screen developed in cooperation with Beihang University has won two national invention patents, and the process technology research of "reducing the lower limit of gravity and direct recovery of coarse and fine coal slime" jointly carried out with China University of Mining and Technology and Xinjulong Coal Preparation Plant of Shandong Xinwen Group won the "National Scientific and Technological Achievement" Award.



- 2008 年获得高新技术企业证书
- 2020 年工业领域节能环保产业市级优秀企业
- 2011 年荣获淮北市知名产品称号
- 2020 年获得企业信用评价 AAA 级信用企业
- 2013 年获得专精特新中小企业
- 2020 安徽股权托管交易中心专精特新板挂牌
- 2019 年获得市认定企业技术中心证书
- 荣获专利 36 项

- In 2008, obtained the high-tech enterprise certificate
- In 2020 Municipal Excellent Enterprises in Energy Conservation and Environmental Protection Industry in the Industrial Field
- In 2011, won the title of well-known products in Huaibei City
- In 2020, won the AAA grade credit enterprise of enterprise credit evaluation
- In 2013, won the title of Specialized Special New SME
- In 2020 Anhui Equity Custody Trading Center Specialized Special New Board Listed
- In 2019, awarded the certificate of Municipal Enterprise Technology Center
- Won 36 patents

# 产品设计 →→

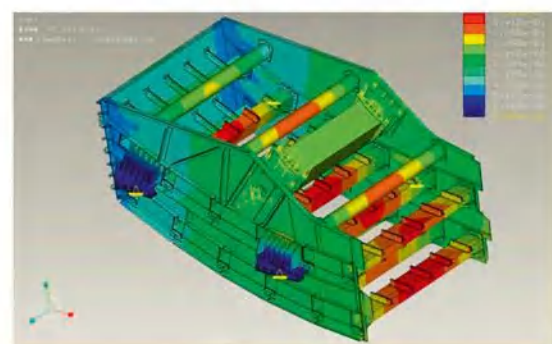
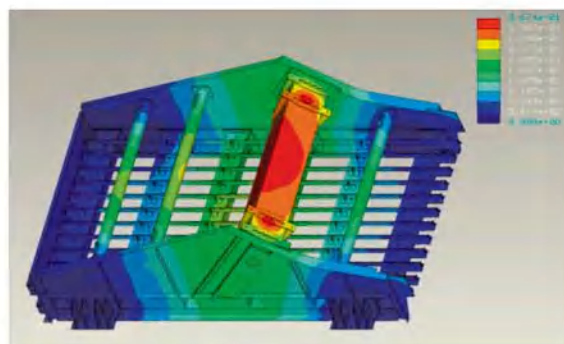
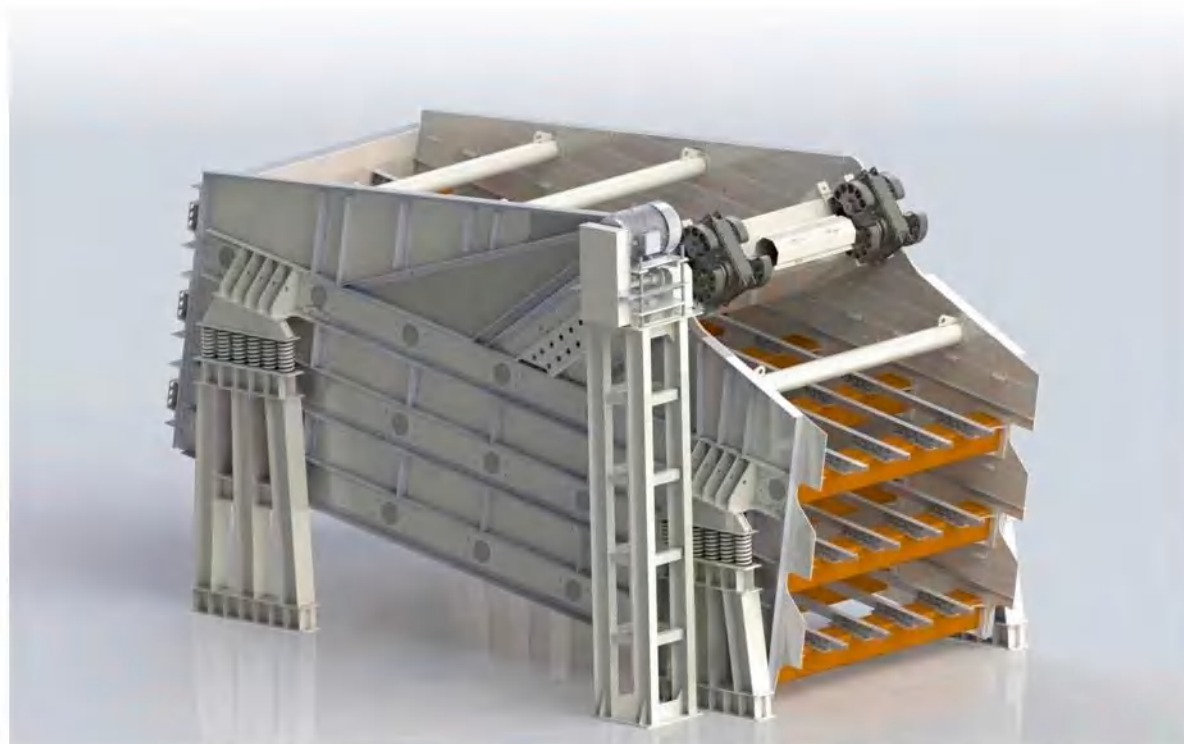
## PRODUCT DESIGN

方园公司拥有经验丰富的筛分设计开发团队和先进的加工制造工艺及加工设备。

Fangyuan Mining has an experienced screening design and development team and advanced processing and manufacturing technology and processing equipment.

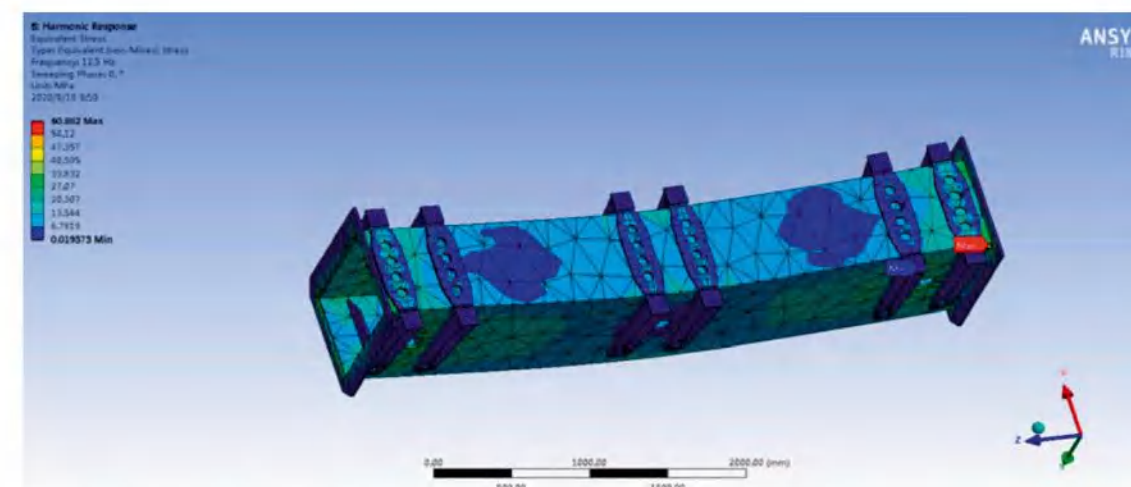
在设计过程中，通过 CAE 数值分析方法和三维建模软件，对产品结构设计、刚度和强度计算、材料选择等方面进行模态及瞬态分析。

In the design process, through CAE numerical analysis method and 3D modeling software, modal and transient analysis is carried out on product structure design, stiffness and strength calculation, material selection and other aspects.



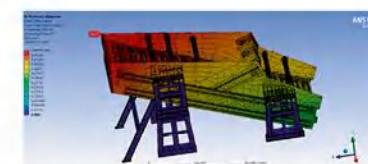
# 设计理念及分析方法 →→

## DESIGN CONCEPT & ANALYSIS METHOD

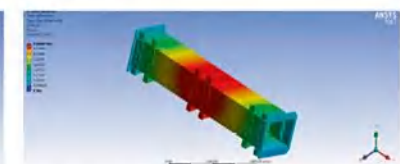


在施加激振力情况下，主梁的应力云图

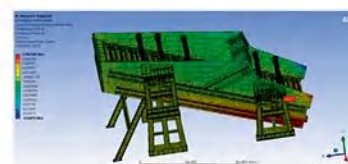
The stress cloud image of the main beam under the condition of applying the exciting force.



谐响应下总变形云图  
Total deformation cloud image  
under harmonic response



主梁位移云图  
Main girder displacement cloud  
image



谐响应下 X 向位移云图  
X-direction displacement cloud  
image under harmonic response

### 01 客户化的设计 Customer-oriented design

针对每一位用户提供的物料及使用条件，量身定制方案，满足用户应用需求。  
According to the materials and conditions of use provided by each user, tailor-made solutions to meet user application needs

### 02 延长设备使用寿命 Extend the service life of equipment

通过有限元模态和应力分析，可以提高筛机结构强度和重量，减少应力，延长设备使用寿命。  
Through finite element modal and stress analysis, the structural strength and weight of the screen machine can be improved, the stress can be reduced, and the service life of the equipment can be extended.

### 03 性能科学可靠 Scientific and reliable performance

对激振器主梁和筛箱等关键部件进行作用力模拟分析，建立虚拟模型对设备进行完善和改进，提前排除可能存在的危险区间，保证产品结构的科学性和可靠性。  
Perform force simulation analysis on key components such as the main beam of the exciter and the screen box, establish a virtual model to improve and complete the equipment, eliminate possible dangerous areas in advance, and ensure the scientificity and reliability of the product structure.

### 04 提高承载力和适应性 Improve bearing capacity and adaptability

针对筛下横梁等关键部件进行优化，加强防护等级，提高承载力和适用性。  
Optimize the key components such as the crossbeam under the screen, strengthen the protection level, and improve the bearing capacity and applicability.

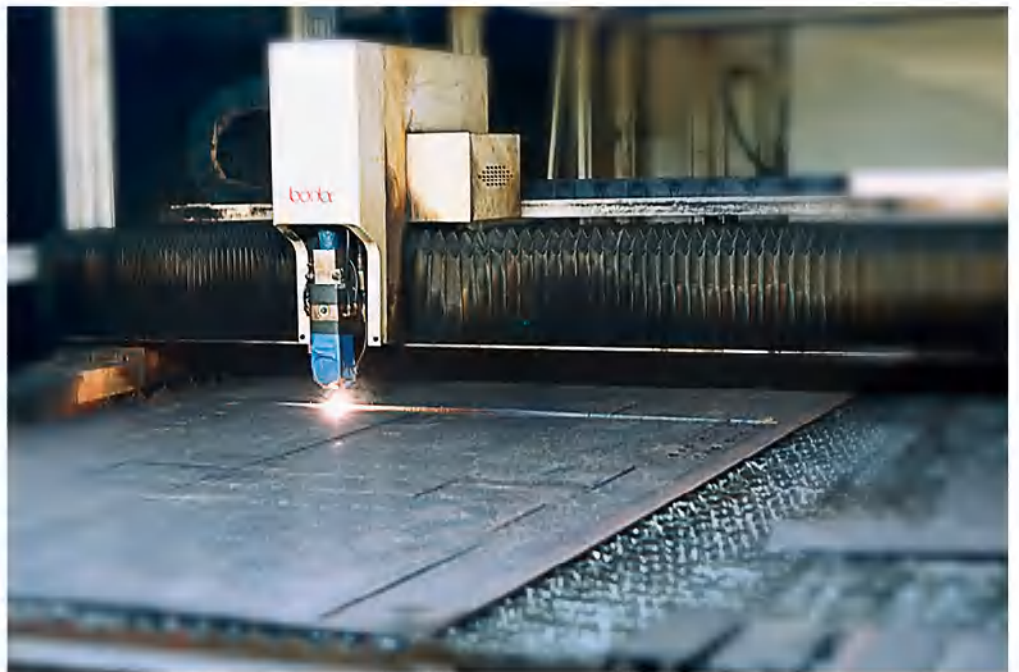


## 产品制造

### PRODUCT MANUFACTURING

方园公司具有先进的产品制造工艺与完善的质量管理体系，筛分设备在制造过程中，精心选材，在下料、组对、机加工、焊接、热处理、表面处理、组装和测试等各工序上严格按照行业标准进行全过程以及产品全生命周期的质量监管。各工序均采用先进的工艺和设备。  
 Fangyuan Mining has advanced product manufacturing technology and perfect quality management system. During the manufacturing process of screening equipment, materials are carefully selected. In the feeding, pairing, machining, welding, heat treatment, surface treatment, assembly, testing and other processes in strict accordance with the industry standards for the whole process and the whole life cycle of the product quality supervision. Each process adopts advanced technology and equipment.

| 开始<br>Start                  | 原材料<br>Raw Material          | 下料<br>Blanking               | 机加工<br>Machining         | 组对<br>Positioning         | 焊接<br>Welding                   | 热处理<br>Heat Treatment          | 表面处理<br>Surface Treatment                 | 组装<br>Assembly | 测试<br>Test                    |
|------------------------------|------------------------------|------------------------------|--------------------------|---------------------------|---------------------------------|--------------------------------|-------------------------------------------|----------------|-------------------------------|
| 供应商测评<br>Supplier Evaluation | 材质单<br>Material List         | 下料图<br>Blanking Diagram      | 文件控制<br>Document Control | 胎具确认<br>Mold Confirmation | 文件控制<br>Document Control        | 文件控制<br>Document Control       | 拉拔试验<br>Pull Test                         |                | 力矩检测<br>Torque Detection      |
|                              | 实物测量<br>Physical Measurement | 实物测量<br>Physical Measurement | 尺寸控制<br>Size Control     | 文件控制<br>Document Control  | 无损检测<br>Non-destructive Testing | 热处理曲线图<br>Heat Treatment Curve | 漆膜检测<br>Paint Film Detection              |                | 温升测试<br>Temperature Rise Test |
|                              |                              |                              |                          |                           | 焊接地标图<br>Welding                |                                | 表面粗糙度<br>Surface Roughness                |                | 噪音检测<br>Noise Detection       |
|                              |                              |                              |                          |                           | 焊接工艺<br>Welding Process         |                                | 温湿度记录<br>Temperature and Humidity Records |                | 振动参数<br>Vibration Parameters  |
|                              |                              |                              |                          |                           | 工艺评定<br>Process Evaluation      |                                |                                           |                |                               |



在出厂前，为了保证产品的性能，我们对每台设备都进行 48 小时空载试验，质检人员严格按照筛机检验标准，使用专业振动测试仪器提取数据并分析，调整参数，并对筛机进行静、动态性能测试，检查所有连接件的紧固情况，检查轴承温度等，测试完毕后经由技术人员进行判定，设备合格后准予出厂。  
 Before leaving the factory, in order to ensure the performance of the product, we conduct a 48-hour no-load test on each equipment. The quality inspectors strictly follow the inspection standards of the screen machine, use professional vibration testing instruments to extract and analyze data, adjust parameters, and test the screen machine. Carry out static and dynamic performance tests, check the fastening conditions of all connecting parts, check the bearing temperature, etc. After the test is completed, it will be judged by technicians, and the equipment will be allowed to leave the factory after passing the test.

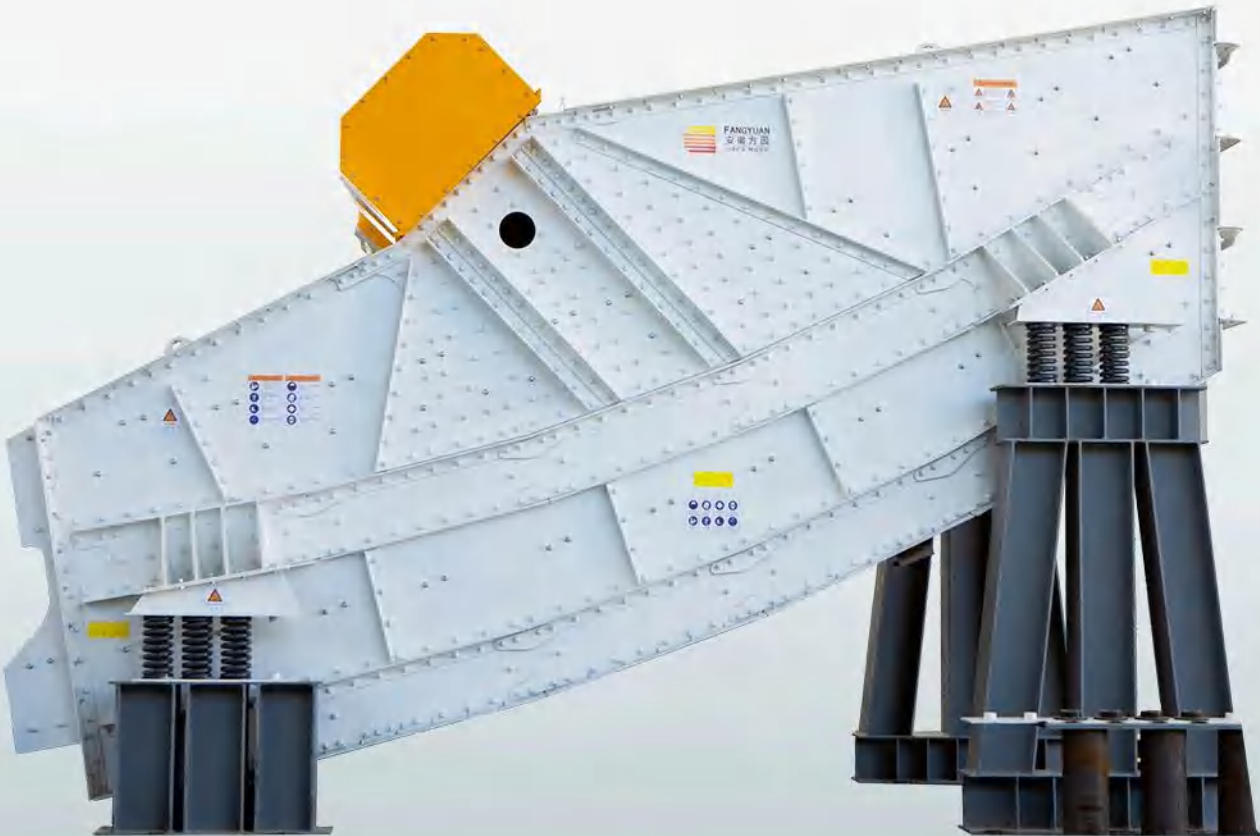
# FDB 香蕉筛



## FDB BANANA SCREEN



方园 FDB 大型香蕉筛为连续多角度筛面设计，配备高效激振器连续运转，激振强度大，可应用于分级筛和脱介筛。FDB Large Banana Screen is designed for continuous multi-angle screen surface, equipped with high-efficiency vibrator for continuous operation, strong excitation strength, and can be applied to grading screen and de-mediation screen.



### 香蕉筛特点

#### Large Banana Screen Features

- 比常规的水平筛或圆振筛提高 40%左右的处理量。
- 同等筛分面积，设备更加节约空间。
- 采用直线振动方式，与普通圆振动形式相比振动强度大，物料流动更加流畅，处理量更大。
- 可配备模块式聚氨酯或橡胶筛板便于拆装更换。
- 适合干法和湿法筛分。可选择单层、双层和三层筛面。
- Compared with conventional horizontal screen or circular vibrating screen, the processing capacity is increased by about 40%.
- With the same screening area, the equipment saves more space.
- Adopts the linear vibration mode, which has higher vibration intensity than the ordinary circular vibration mode, and the material flow is smoother and the processing capacity is larger.
- It can be equipped with modular polyurethane or rubber sieve plate for easy disassembly and replacement.
- Suitable for dry and wet sieving. Single layer, double layer and three layer sieve surface can be selected.



### 香蕉筛工作原理

#### Large Banana Screen Working Principle

##### 高速入料分层段

##### High-speed feeding stratified section

入料筛分角度大，使得物料移动速度加快，起到快速分层作用，易筛物料更加快速透筛。  
The feeding screening angle is large, which speeds up the moving speed of the material and plays a role of rapid stratification, and the easy-to-sieve material can be screened more quickly.

##### 中速筛分段

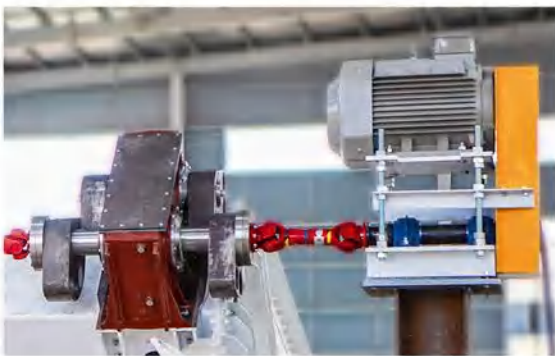
##### Medium speed screening section

随着筛面倾角减小，使物料的移动速度减慢，形成料层，增加颗粒的透筛概率，提高筛分效率，完成主要筛分透筛及部分分层作用。  
As the inclination angle of the sieve surface decreases, the moving speed of the material will be slowed down to form a material layer, which will increase the sieving probability of the particles, improve the screening efficiency, and complete the main sieving and partial stratification.

##### 低速排料阶段

##### Low speed discharge stage

筛分角度继续减小，与筛网尺寸接近的物料在此阶段完成检查筛分。  
The screening angle continues to decrease, and the materials close to the size of the screen mesh are screened at this stage.

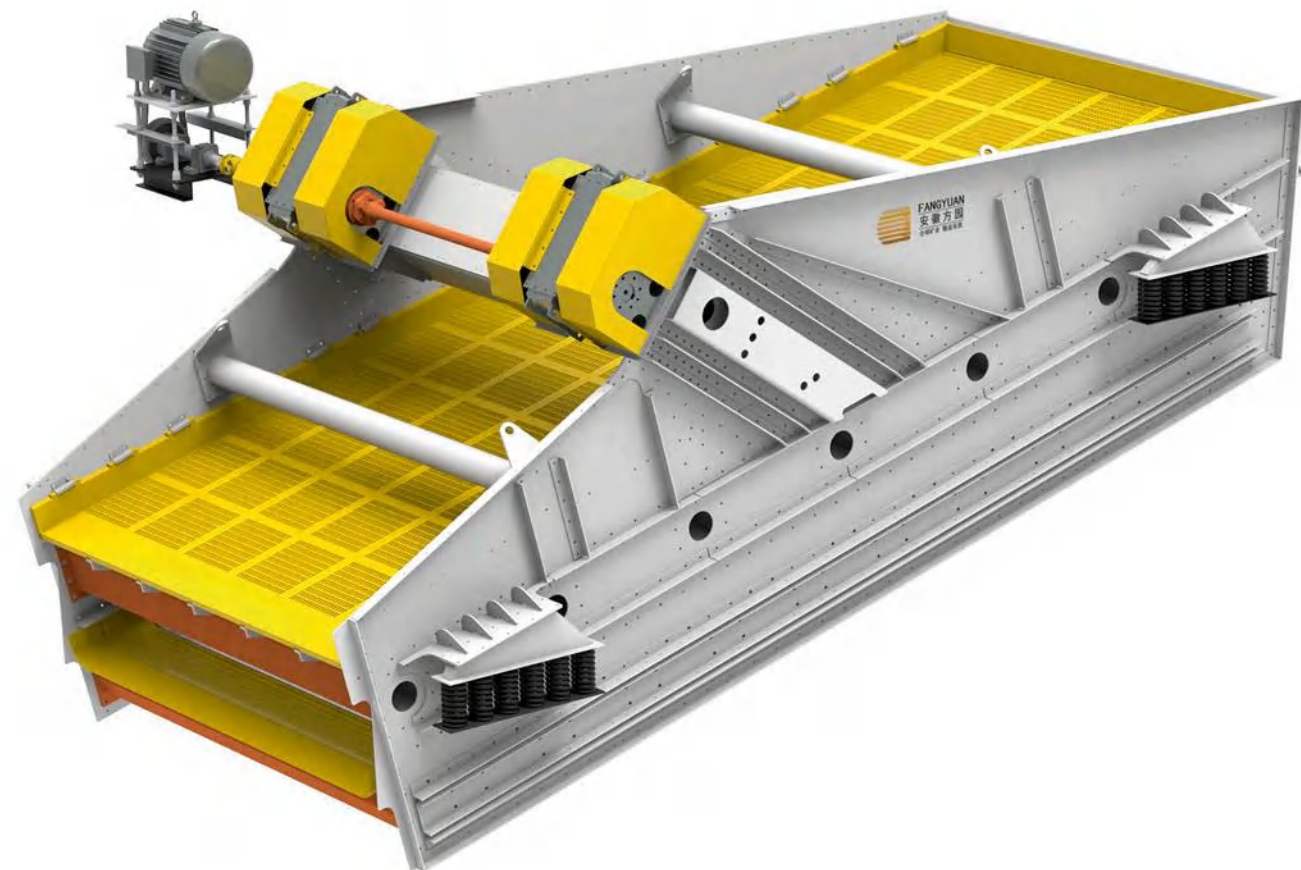


# FDFL 大型弛张筛 →→

## FDFL FLIP FLOW SCREEN

方园弛张筛主要由箱式激振器、主振筛框、浮动筛框、剪切弹簧、柔性聚氨酯筛网，主振弹簧和驱动装置等组成，具有单位面积处理量大，筛分效率高优点，广泛应用于细粒度、黏湿物料的筛分应用。

FDFL Large Flip Flow Screen is mainly composed of box-type vibrator, main vibrating screen frame, floating screen frame, shear spring, flexible polyurethane screen mesh, main vibrating spring, driving device and other components. With the advantages of large processing capacity per unit area and high screening efficiency, it is widely used in the screening of fine-grained and viscous materials.



### 弛张筛主要特点

FDFL Flip Flow Screen Features

1

激振强度可达 50g 以上，解决细粒度、黏湿物料的筛分

Excitation intensity can reach more than 50g, which solves the screening of fine-grained and sticky materials

2

浮动筛框采用多个剪切弹簧组合结构，通过弹簧数量的变化实现振幅调整。

The floating screen frame adopts multiple shear spring combination structures to achieve amplitude adjustment through changes in the number of springs.

3

聚氨酯筛网弹性具有自清理筛孔作用，能有效解决细颗粒物料堵网问题。

The elasticity of the polyurethane screen has the function of self-cleaning screen holes, which can effectively solve the problem of fine particle material blocking the screen.

4

筛网安装轨座采用牛角型设计，保护侧板同时防止物料跑粗。

The screen installation rail seat adopts the horn-shaped design to protect the side plate and prevent the material from running thick.

5

筛面可分为单层弛张筛、双层弛张筛

Screen surface can be divided into single-layer relaxation screen and double-layer relaxation screen.

# FDL 大型直线筛 (干法、湿法) →→

## FDL LARGE SIZING SCREEN(DRY、 WET)

设备主要由箱式激振器、筛箱、弹簧、支座和驱动装置组成。运动轨迹为直线，筛机安装形式为 0° 到 15°。适用于各种恶劣的工况环境。在金属矿山、煤炭、砂石骨料、建材等领域的干法分级、湿法分级、脱水等环节广泛应用。

The equipment is mainly composed of box-type vibrator, screen box, spring, support and driving device. The motion track is a straight line, and the installation form of the screen machine is from 0° to 15° . Applicable to various harsh working conditions and environments.

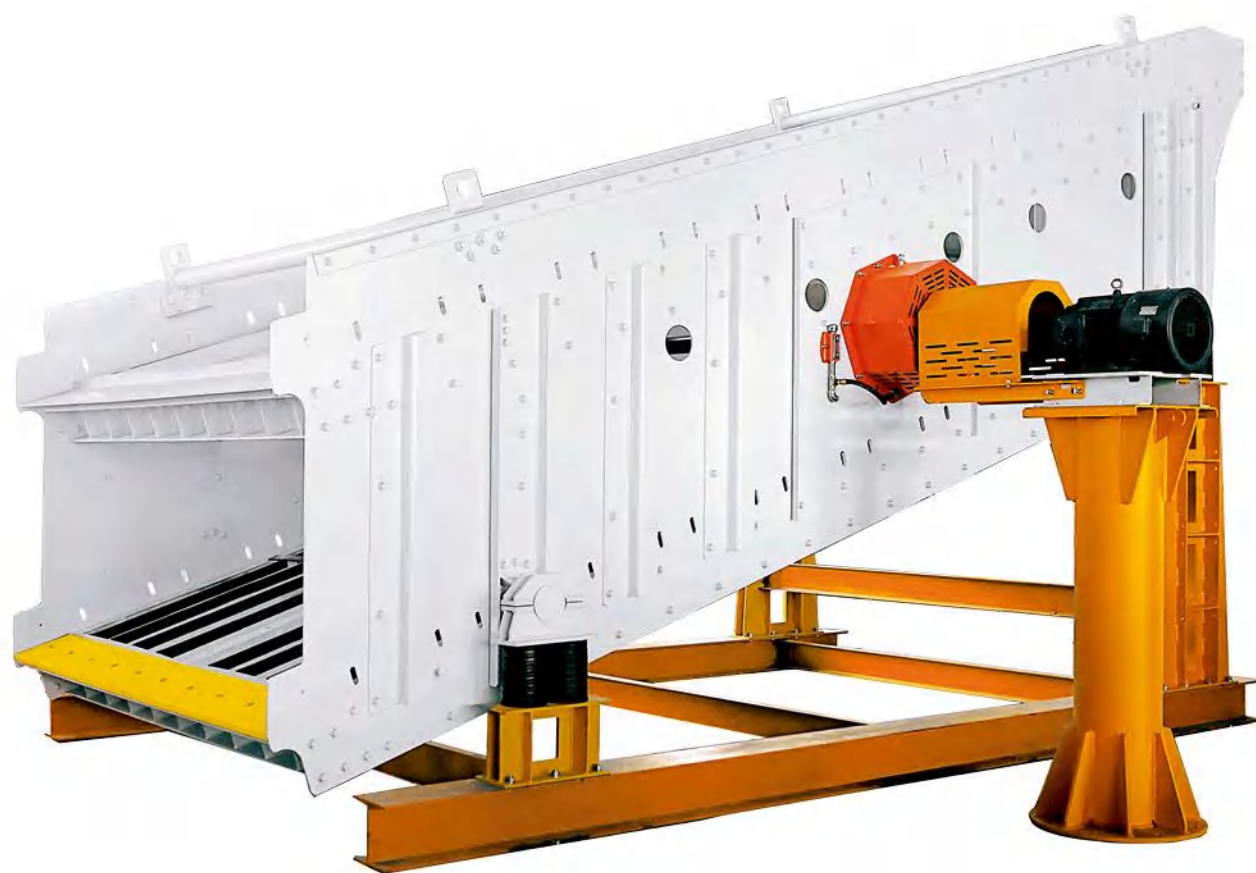
In metal mining, coal, sand aggregate, building materials and other fields of dry classification,wet classification and dehydration are widely used.



## 直线筛主要特点 FDL Large Sizing Screen(Dry、 Wet) Features

- 关键部件原装进口，可靠、故障低、运行稳定
- 主机设计使用寿命十年以上
- 采用高效斜齿轮传动激振器，寿命长，噪音低
- 筛面宽度可达 5 米以上。
- 振幅可达 16mm，处理能力大、筛分效率高
- 可配备模块式聚氨酯或橡胶筛板，采用无螺栓榫卯结构，拆装方便
- 可选择单层、双层、三层三种筛面形式。
- The key components are imported, reliable, low failure and stable operation
- Host design service life more than ten years
- Using high-efficiency helical gear drive vibrator, long life and low noise
- The width of the screen surface can reach more than 5 meters.
- Amplitude up to 16mm, large processing capacity and high screening efficiency
- Can be equipped with modular polyurethane or rubber sieve plate, adopts bolt-free mortise and tenon structure, easy to disassemble and assemble
- Single-layer, double-layer and three-layer screen surfaces can be selected.





## FY 圆振筛 →→

### FY CIRCULAR VIBRATING SCREEN

方园系列圆振动筛因其运动轨迹近似于圆，故简称为圆振筛，是一种多层数、高效新型振动筛。圆振动筛采用筒体式偏心轴激振器及偏心块调节振幅，物料筛淌线长，筛分规格多，具有结构可靠、激振力强、筛分效率高、振动噪音小、坚固耐用、维修方便、使用安全等特点。

FY Series Circular Vibrating Screen is also called circular vibrating screen because its motion track is similar to a circle. It is a new type of multi-layer and high-efficiency vibrating screen. The circular vibrating screen adopts the simplified eccentric shaft exciter and the eccentric block to adjust the amplitude. The material sieve has a long flow line and many screening specifications. It has the characteristics of reliable structure, strong vibration force, high screening efficiency, low vibration noise, strong durability, convenient maintenance and safe use.



### 圆振筛主要特点 FY Circular Vibrating Screen Features

1. 由于筛箱振动强烈，减少了物料堵塞筛孔的现象，使筛子具有较高的筛分效率和生产率。
  2. 构造简单、拆换筛面方便。
  3. 筛子横梁与筛箱采用高强度螺栓联接，无焊接。
  4. 采用轮胎联轴器，柔性连接，运转平稳。
  5. 采用小振幅，高频率，大倾角结构，使该机筛分效率高、处理量大、寿命长、电耗低、噪音小。
1. Due to the strong vibration of the screen box, the phenomenon of material blocking the screen hole is reduced, so that the screen has high screening efficiency and productivity.
  2. The structure is simple, and the screen surface is convenient to replace.
  3. The sieve beam and the screen box are connected by high-strength bolts without welding.
  4. Using tire coupling, flexible connection, stable operation.
  5. Using small amplitude, high frequency and large inclination structure makes the machine has high screening efficiency, large processing capacity, long life, low power consumption, low noise.



### 圆振动筛工作原理

#### FY Circular Vibrating Screen Working Principle

主要由筛箱、激振器、悬挂（或支承）装置及电动机等组成。电动机经三角皮带，带动激振器主轴回转，由于激振器上不平衡重物的离心惯性力作用，使筛箱获振动。改变激振器偏心质量，可获得不同振幅。

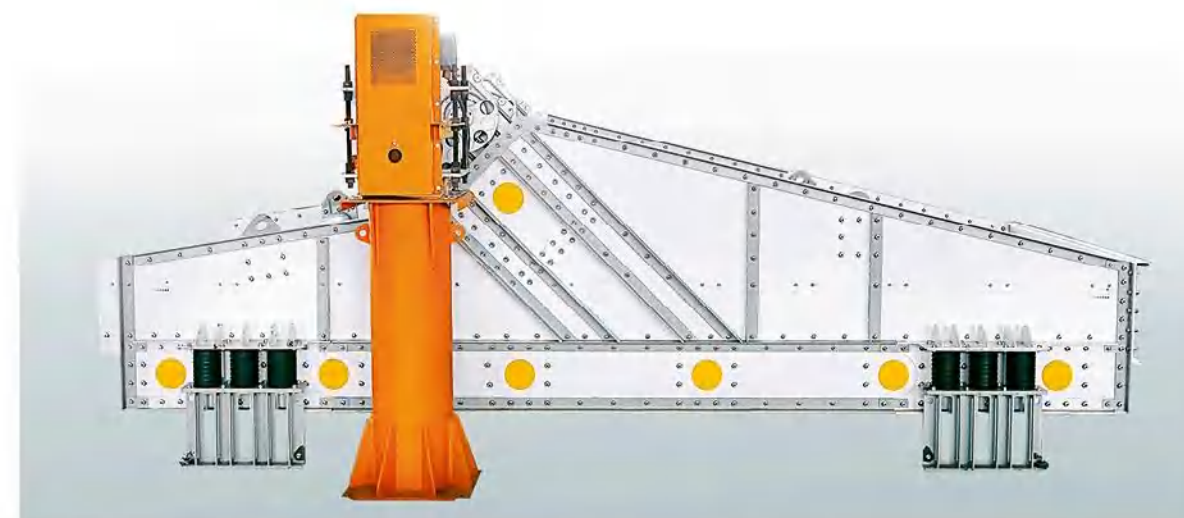
FY Circular Vibrating Screen is mainly composed of screen box, vibrator, suspension (or support) device and electric motor. The motor drives the main shaft of the exciter to rotate through the triangle belt. Due to the centrifugal inertial force of the unbalanced weight on the vibrator, the sieve box is vibration. Different amplitudes can be obtained by changing the eccentric mass of the exciter.



## 旋流器 →→

### CYCLONE

方园系列高效水力旋流器主要用于细沙回收和高效洗砂行业，针对砂石骨料行业中细沙回收、金属矿山、非金属矿山等工况，具有分级效率高，使用寿命长，耐磨材料选择性多等优势，可根据不同工艺技术要求进行个性化定制。FY Series High-efficiency Hydrocyclones are mainly used in fine sand recovery and high-efficiency sand washing industries. Aiming at the recovery of fine sand, metal mines, non-metallic mines and other working conditions in the sand and stone aggregate industry, it has the advantages of high classification efficiency, long service life, wear-resistant materials and other selectivity, and can be customized according to different technical requirements.



## 尾矿处理系统 →→

### TAILINGS TREATMENT SYSTEM



尾矿处理系统由渣浆泵、旋流器、脱水筛组成，该系统脱水效果好，占地面积小，投资和运行成本均较低，并且节能环保。

Tailings Treatment System consists of slurry pump, cyclone, and the dewatering screen. The system has good dehydration effect, small floor area, low investment and operating costs, energy-saving and environmentally friendly.

## 筛机智能监控系统 →→

### INTELLIGENT MONITORING SYSTEM FOR SCREEN

为了提高筛机的安全性与稳定性公司研发团队开发出了一种可靠的智能控制系统，该系统是对物联网技术、大数据、云计算、振动筛检测等技术的综合、科学的运用。该系统可拓展移动终端应用，通过专用 APP 进行操作，可实现设备各项运行参数信号的实时采集、智能分析、集中控制和网络传输。

In order to improve the safety and stability of the screening machine, the R&D team of the company has developed a reliable intelligent control system, which is a comprehensive and scientific application of Internet of Things technology, big data, cloud computing, vibrating screen detection and other technologies. The system can expand the application of mobile terminals and operate through the dedicated APP, which can realize real-time collection, intelligent analysis, centralized control and network transmission of various operating parameter signals of the equipment.

**振动检测仪：**完成振动筛的各项运行频率、振幅等参数的采集；

**铂热电阻：**筛机润滑油温度及环境温度方面的监控、采集；

**电流变送器及电压变送器：**对筛机电力系统的电压和电流信号的监控、采集；

**监控系统：**通过 PLC 收集各仪器信号，并保存分析，经过编程处理，上传到数字终端；

**数据采集系统：**采集一台甚至整条生产线设备的运转信号，并把设备控制及运行监测集中组态到同一终端，实现生产线的集中控制、监测；

**数据分析系统：**通过对传感器数据的采集分析，让用户详细了解筛机的运转状况，尽早发现问题，合理安排设备检修时间，有效地避免因设备突然发生故障带来的损失。

**Vibration detector:** complete the collection of various operating frequency, amplitude and other parameters of the vibrating screen;

**Platinum RTD:** monitoring and collection of screen machine lubricating oil and ambient temperature

**Current transmitter and voltage transmitter:** monitor and collect the voltage and current signals of the power system of the screen machine;

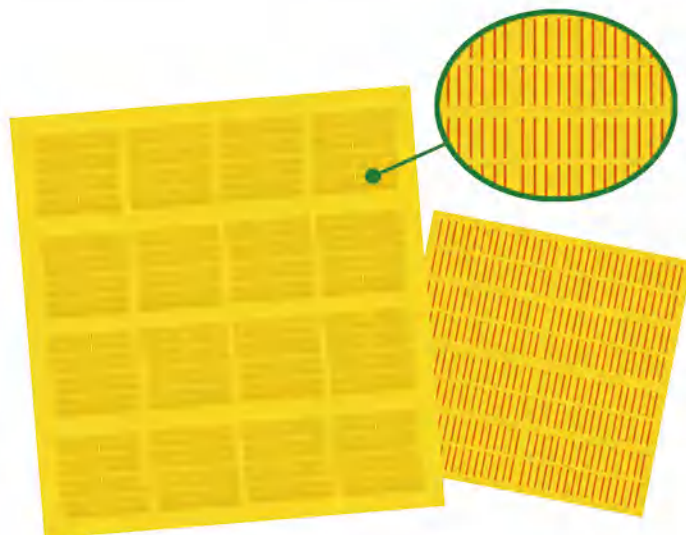
**Monitoring system:** collect the signals of each instrument through PLC, save and analyze them, and upload them to the digital terminal after programming;

**Data acquisition system:** collect the operation signal of one or even the entire production line equipment, and centrally configure the equipment control and operation monitoring to the same terminal to realize the centralized control and monitoring of the production line;

**Data analysis system:** Through the collection and analysis of sensor data, users can learn more about the operation status of the screening machine, find problems as soon as possible, arrange equipment maintenance time reasonably, and effectively avoid losses caused by sudden equipment failures.

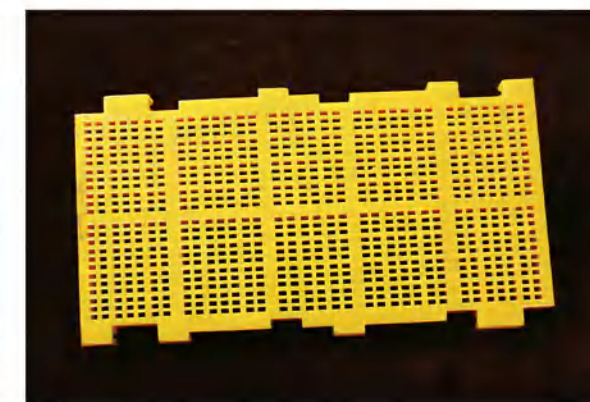
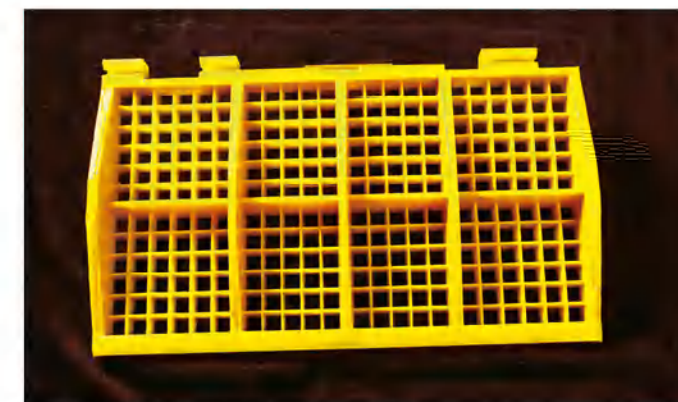
## 聚氨酯筛板 →→

### POLYURETHANE SCREEN PANEL



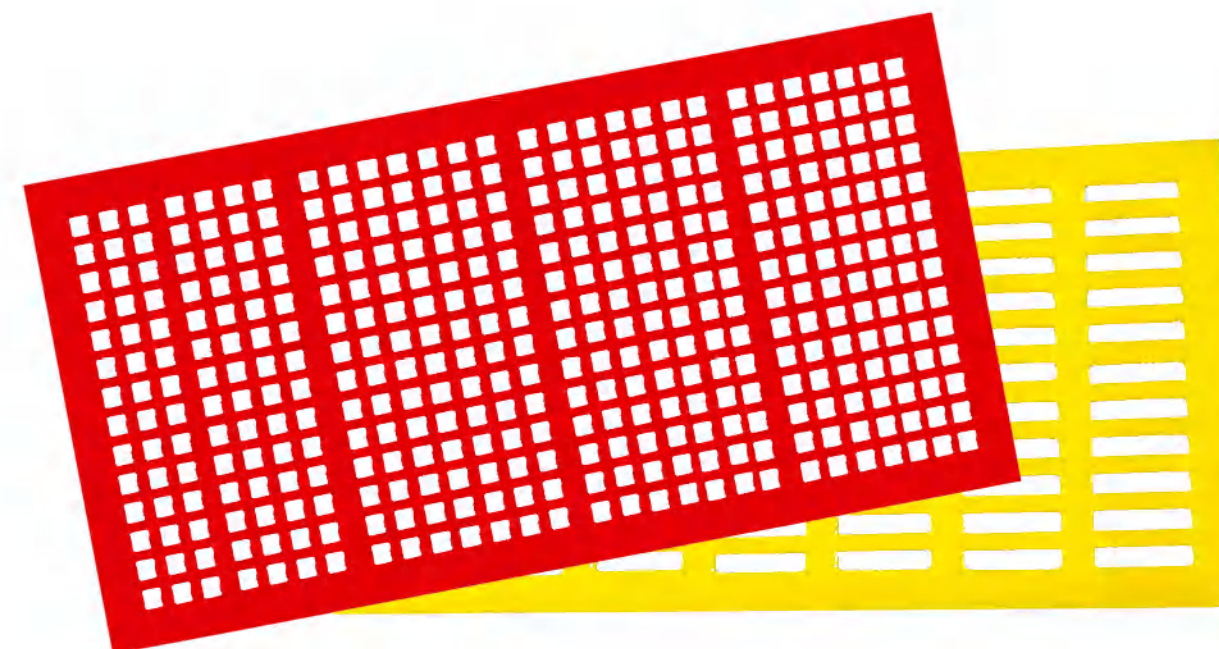
高耐磨性聚氨酯筛板具有重量轻、寿命长（是不锈钢筛板的 2-3 倍，是金属编织筛网的 3-10 倍），不堵孔，噪音低，脱水、脱介、分离效果好，安装方便可靠等优点。由于聚氨酯的以上性能，聚氨酯筛网已广泛应用于选煤、选矿、建材等行业。

High wear resistance of polyurethane with light weight, long using life(which is stainless steel mesh of 2-3 times, the metal woven screen mesh of 3-10 times), non-blocking holes, low noise, good performance of dehydration, de-sliming and separation, easy installation and reliable. Because of the excellent properties, polyurethane screen panels are widely used in coal preparation, mineral processing and building materials separation.



## 标准型轨座式聚氨酯筛网 →→

### STANDARD RAIL TYPE PU SCREEN PANEL



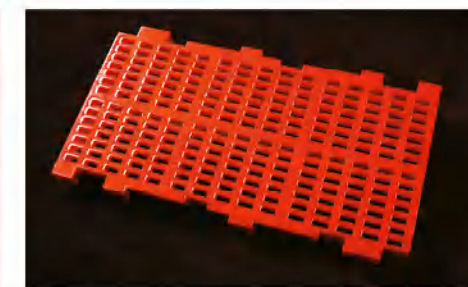
## 耐磨筛网 →→

### WEAR-RESISTANT SCREEN PANEL



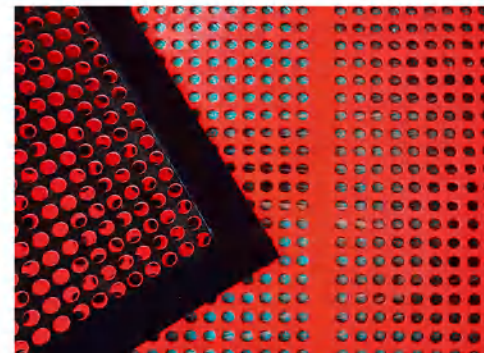
高耐磨性聚氨酯筛板具有重量轻、寿命长（是不锈钢筛板的 2-3 倍，是金属编织筛网的 3-10 倍），不堵孔，噪音低，脱水、脱介、分离效果好，安装方便可靠等优点。由于聚氨酯的以上性能，聚氨酯筛网已广泛应用于选煤、选矿、建材等行业。

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## 防堵防黏柔性筛网 →→

ANTI-BLOCKING AND ANTI-STICKING  
FLEXIBLE SCREEN PANEL



防堵防黏柔性筛网在振动筛分时保持高弹性，多次的振动、形变和回复把湿黏物料从筛面不断的向上弹起、抖散、筛分，避免了堵孔糊孔现象，尤其适用于湿黏状态下中细粒度物料的筛分。

The anti-blocking and anti-sticking flexible screen panel maintains high elasticity during screening. Repeated vibration, deformation and recovery constantly bounce, shake and screen the wet and sticky materials from the screen surface, avoiding the blocking and the sticky holes. It is especially suitable for the screening of medium and fine-grained materials in the wet and sticky condition.

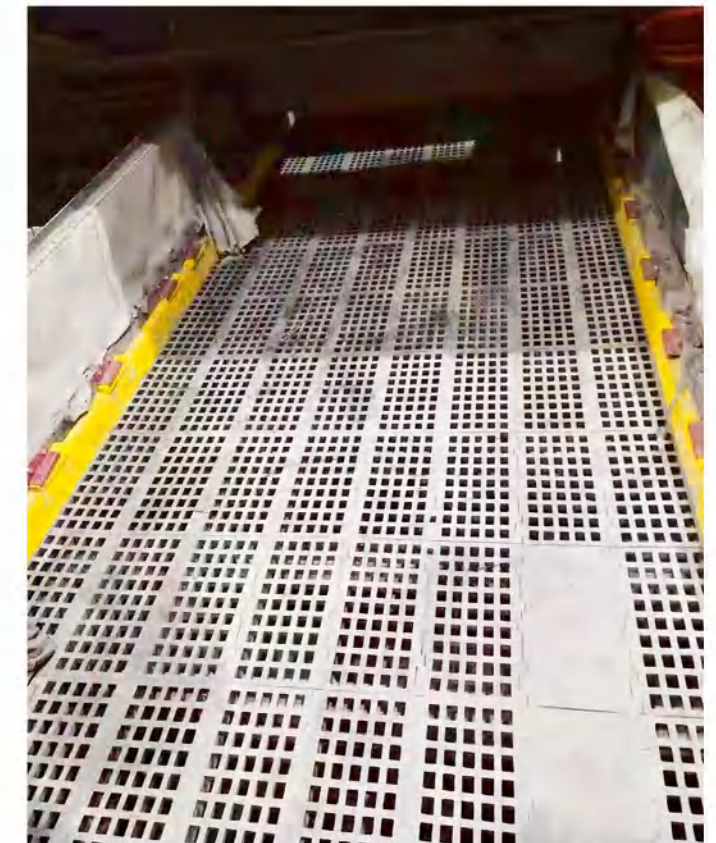
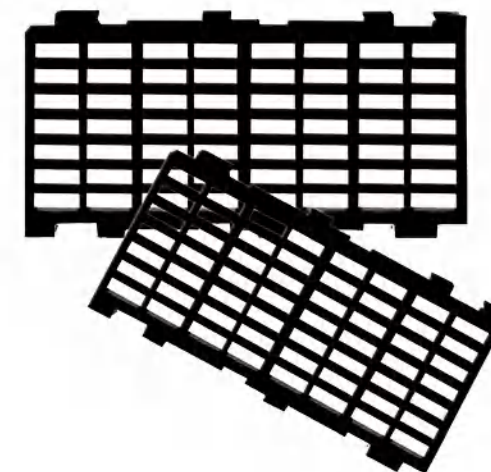
采用方园防堵筛网可以解决上述问题，筛网给用户带来的效益巨大，筛网成本可忽略不计。

Using Fangyuan anti-blocking screen meshes can completely solve those problems. The screen brings great benefits to users, and the screen cost can be ignored.



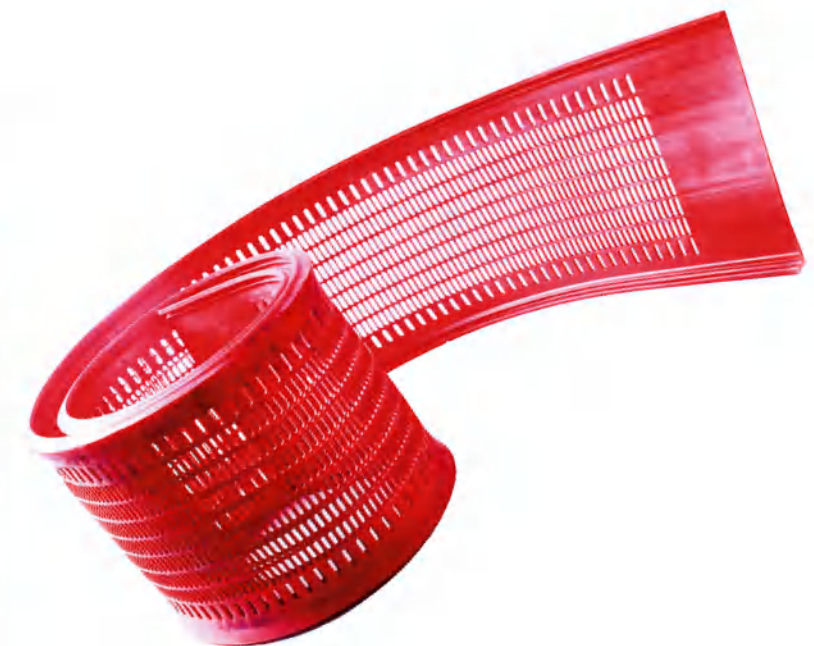
## 橡胶筛网 →→

RUBBER SCREEN PANEL



## 弛张筛网 →→

FLIP FLOW SCREEN PANEL



| 产品型号一览表 Product model list |             |                     |                                                         |                                  |                             |    |
|----------------------------|-------------|---------------------|---------------------------------------------------------|----------------------------------|-----------------------------|----|
| 名称<br>Name                 | 型号<br>Model | 筛面层<br>Screen layer | 筛面规格 宽 * 长 (mm)<br>Sieve specification Width×Length(mm) | 筛面倾角 ( ° )<br>Screen inclination | 装机功率(kw)<br>Installed power |    |
| 香蕉筛<br>Banana<br>Screen    | FSB1836     | 1                   | 1800*3600                                               | 8-24                             | 18.5                        |    |
|                            | FDB1836     | 2                   |                                                         |                                  | 22                          |    |
|                            | FSB1848     | 1                   | 1800*4800                                               | 6-24                             | 18.5                        |    |
|                            | FDB1848     | 2                   |                                                         |                                  | 22                          |    |
|                            | FSB2461     | 1                   | 2400*6100                                               | 5-25                             | 22                          |    |
|                            | FDB2461     | 2                   |                                                         |                                  | 37                          |    |
|                            | FTB2461     | 3                   |                                                         |                                  | 55                          |    |
|                            | FSB2473     | 1                   | 2400*7300                                               |                                  | 22                          |    |
|                            | FDB2473     | 2                   |                                                         |                                  | 37                          |    |
|                            | FTB2473     | 3                   |                                                         |                                  | 55                          |    |
|                            | FSB3061     | 1                   | 3000*6100                                               |                                  | 37                          |    |
|                            | FDB3061     | 2                   |                                                         |                                  | 55                          |    |
|                            | FTB3061     | 3                   |                                                         |                                  | 2*37                        |    |
|                            | FSB3073     | 1                   | 3000*7300                                               |                                  | 37                          |    |
|                            | FDB3073     | 2                   |                                                         |                                  | 55                          |    |
|                            | FTB3073     | 3                   |                                                         |                                  | 2*37                        |    |
|                            | FSB3085     | 1                   | 3000*8500                                               |                                  | 37                          |    |
|                            | FDB3085     | 2                   |                                                         |                                  | 55                          |    |
|                            | FTB3085     | 3                   |                                                         |                                  | 2*55                        |    |
|                            | FSB3661     | 1                   | 3600*6100                                               |                                  | 37                          |    |
|                            | FDB3661     | 2                   |                                                         |                                  | 55                          |    |
|                            | FTB3661     | 3                   |                                                         |                                  | 90                          |    |
|                            | FSB3673     | 1                   | 3600*7300                                               |                                  | 55                          |    |
|                            | FDB3673     | 2                   |                                                         |                                  | 90                          |    |
|                            | FTB3673     | 3                   |                                                         |                                  | 90                          |    |
|                            | FSB3685     | 1                   | 3600*8500                                               |                                  | 55                          |    |
|                            | FDB3685     | 2                   |                                                         |                                  | 90                          |    |
|                            | FTB3685     | 3                   |                                                         |                                  | 90                          |    |
|                            | FSB4373     | 1                   | 4300*7300                                               |                                  | 55                          |    |
|                            | FDB4373     | 2                   |                                                         |                                  | 90                          |    |
|                            | FSB4385     | 1                   | 4300*8500                                               |                                  | 55                          |    |
|                            | FDB4385     | 2                   |                                                         |                                  | 90                          |    |
| 弛张筛<br>Flip Flow<br>Screen | FSFL2461    | 1                   | 2400*6100                                               |                                  | 15                          | 22 |
|                            | FDFL2461    | 2                   |                                                         |                                  | 18                          | 37 |
|                            | FSFL2473    | 1                   | 2400*7300                                               |                                  | 15                          | 22 |
|                            | FDFL2473    | 2                   |                                                         |                                  | 18                          | 37 |
|                            | FTFL2473    | 3                   |                                                         | 20                               | 55                          |    |
|                            | FSFL3061    | 1                   | 3000*6100                                               | 15                               | 37                          |    |
|                            | FDFL3061    | 2                   |                                                         | 18                               | 55                          |    |
|                            | FSFL3073    | 1                   | 3000*7300                                               | 15                               | 37                          |    |
|                            | FDFL3073    | 2                   |                                                         | 18                               | 55                          |    |
|                            | FSFL3085    | 1                   | 15                                                      |                                  |                             |    |
|                            | FDFL3085    | 2                   | 18                                                      |                                  |                             |    |
|                            | FSFL3673    | 1                   | 15                                                      |                                  |                             |    |
|                            | FDFL3673    | 2                   | 18                                                      |                                  |                             |    |
|                            | FTFL3673    | 3                   | 20                                                      | 90                               |                             |    |
|                            | FSFL4373    | 1                   | 4300*7300                                               | 15                               | 55                          |    |
|                            | FDFL4373    | 2                   |                                                         | 18                               | 90                          |    |
|                            | FSFL4385    | 1                   | 4300*8500                                               | 15                               | 55                          |    |
|                            | FDFL4385    | 2                   |                                                         | 18                               | 90                          |    |
|                            | FSFL43100   | 1                   | 4300*10000                                              | 15                               | 55                          |    |
|                            | FDFL43100   | 2                   |                                                         | 18                               | 90                          |    |
|                            | FSFL43120   | 1                   | 4300*12000                                              | 15                               | 90                          |    |
|                            | FDFL43120   | 2                   |                                                         | 18                               | 2*55                        |    |
|                            | FDFL49120   | 2                   | 4900*12000                                              | 15-20                            | 2*90                        |    |

| 产品型号一览表 Product model list                  |             |                     |                                                         |                                  |                             |
|---------------------------------------------|-------------|---------------------|---------------------------------------------------------|----------------------------------|-----------------------------|
| 名称<br>Name                                  | 型号<br>Model | 筛面层<br>Screen layer | 筛面规格 宽 * 长 (mm)<br>Sieve specification Width×Length(mm) | 筛面倾角 ( ° )<br>Screen inclination | 装机功率(kw)<br>Installed power |
| 湿式分级筛<br>(直线脱水筛、<br>直线分级筛)<br>Linear Screen | FSL1836     | 1                   | 1800*3600                                               | 8-24                             | 18.5                        |
|                                             | FDL1836     | 2                   |                                                         |                                  | 22                          |
|                                             | FSL1848     | 1                   | 1800*4800                                               | 6-24                             | 18.5                        |
|                                             | FDL1848     | 2                   |                                                         |                                  | 22                          |
|                                             | FSL2461     | 1                   | 2400*6100                                               | -1-25                            | 22                          |
|                                             | FDL2461     | 2                   |                                                         |                                  | 37                          |
|                                             | FTL2461     | 3                   |                                                         |                                  | 55                          |
|                                             | FSL2473     | 1                   | 2400*7300                                               |                                  | 22                          |
|                                             | FDL2473     | 2                   |                                                         |                                  | 37                          |
|                                             | FTL2473     | 3                   |                                                         |                                  | 55                          |
|                                             | FSL3061     | 1                   | 3000*6100                                               |                                  | 37                          |
|                                             | FDL3061     | 2                   |                                                         |                                  | 55                          |
|                                             | FTL3061     | 3                   |                                                         |                                  | 2*37                        |
|                                             | FSL3073     | 1                   | 3000*7300                                               |                                  | 37                          |
|                                             | FDL3073     | 2                   |                                                         |                                  | 55                          |
|                                             | FTL3073     | 3                   |                                                         |                                  | 2*37                        |
|                                             | FSL3085     | 1                   | 3000*8500                                               |                                  | 37                          |
|                                             | FDL3085     | 2                   |                                                         |                                  | 55                          |
|                                             | FTL3085     | 3                   |                                                         |                                  | 2*55                        |
|                                             | FSL3661     | 1                   | 3600*6100                                               |                                  | 37                          |
|                                             | FDL3661     | 2                   |                                                         |                                  | 55                          |
|                                             | FTL3661     | 3                   |                                                         |                                  | 90                          |
|                                             | FSL3673     | 1                   | 3600*7300                                               |                                  | 55                          |
|                                             | FDL3673     | 2                   |                                                         |                                  | 90                          |
|                                             | FTL3673     | 3                   |                                                         |                                  | 90                          |
|                                             | FSL3685     | 1                   | 3600*8500                                               |                                  | 55                          |
|                                             | FDL3685     | 2                   |                                                         |                                  | 90                          |
|                                             | FTL3685     | 3                   |                                                         |                                  | 90                          |
|                                             | FSL4373     | 1                   | 4300*7300                                               |                                  | 55                          |
|                                             | FDL4373     | 2                   |                                                         |                                  | 90                          |
|                                             | FSL4385     | 1                   | 4300*8500                                               |                                  | 55                          |
|                                             | FDL4385     | 2                   |                                                         |                                  | 90                          |
| 圆振筛<br>Circular<br>Vibrating<br>Screen      | FSR         | 2461                | 2400*6100                                               | 10-20                            | 30                          |
|                                             | FDR         | 2461                |                                                         |                                  | 37                          |
|                                             | FTR         | 2461                |                                                         |                                  | 45                          |
|                                             | FSR         | 3061                | 3000*6100                                               |                                  | 30                          |
|                                             | FDR         | 3061                |                                                         |                                  | 2*37                        |
|                                             | FTR         | 3061                |                                                         |                                  | 2*45                        |
|                                             | FSR         | 3673                | 3600*7300                                               |                                  | 45                          |
|                                             | FDR         | 3673                |                                                         |                                  | 2*45                        |

| 名称<br>Name     | 型号<br>Model | 内径尺寸 (mm)<br>Inner diameter | 入料压力 (mpa)<br>Feeding pressure | 处理能力 (m³/h)<br>processing power | 分级粒度 (um)<br>Grading granularity |
|----------------|-------------|-----------------------------|--------------------------------|---------------------------------|----------------------------------|
| 旋流器<br>Cyclone | FX-150      | 150                         | 0.08-0.3                       | 15-30                           | 20-75                            |
|                | FX-200      | 200                         | 0.06-0.3                       | 25-40                           | 40-100                           |
|                | FX-250      | 250                         | 0.06-0.3                       | 45-80                           | 40-120                           |
|                | FX-300      | 300                         | 0.06-0.2                       | 50-150                          | 50-150                           |
|                | FX-350      | 350                         | 0.06-0.2                       | 80-150                          | 75-150                           |
|                | FX-500      | 500                         | 0.04-0.2                       | 120-220                         | 75-200                           |
|                | FX-660      | 660                         | 0.04-0.15                      | 200-500                         | 75-220                           |



# 方园筛网

方园(安徽)智能装备有限责任公司  
Fangyuan (Anhui) Intelligent Mining Equipment Co., Ltd.



方园（安徽）智能装备有限责任公司

Fangyuan (Anhui) Intelligent Mining Equipment Co.,Ltd.

## COMPANY SUMMARY

### —— 企业简介



中国·安徽  
方园（安徽）智能装备  
有限责任公司

方园（安徽）智能装备有限责任公司经过二十多年的拼搏，已发展为国内集全球筛网品类齐全的生产企业。

方园坚持“诚信铸企业，科技铸精品”的发展战略，坚持自主研发和创新。自公司成立伊始，便创建了企业的研发中心，组建了科研团队，致力于开展“产、学、研”活动，并结合国家政策和公司自身发展需要，确立了定位，即重点研发聚氨酯应用技术领域内的新产品、新技术，推行自主研发，合作开发和引进消化吸收的技术来源战略。方园始终在筛网上做创新，没有高品质的筛网再先进的筛机也筛分不出各类物料，筛网才是筛分领域的核心。在材料配方、模具设计及加工工艺方面取得了良好的业绩：拥有多项国家发明专利、重点新产品、省科研成果、省科技创新等资质。

方园集团以强大的研发实力为后盾，突破世界四大品牌筛网生产技术：欧洲的CPU浇注筛网（TDI、MDI）浇注筛网（同时含橡胶冲孔筛网），日本的TPU热熔筛网，美国的聚氨酯精细筛网，南美的三角形筛网（帐篷网）。现已成为全球筛网品种齐全的供应商，拥有自营出口权。

方园始终围绕选矿产业链做文章，产品涵盖：多叠高频筛机，直线三角脱介脱水筛机，筛网，旋流器机组，超耐磨衬板，旋转浇注大型包胶滚筒，地辊，洗砂机摩擦板，输送机缓冲床，各类托辊，刮板（含合金类），聚氨酯衬胶管道，聚脲喷涂防腐磁选机筒体包胶。

通过不断地推出新产品和高品质的服务，方园将不断提升其在国际选矿行业的影响力！方园筛网，中国荣耀，全球矿业，精选有我！

总部地址：中国·安徽·淮北相山区帝景翰园翰邦国际广场12层

工厂地址：中国·安徽·淮北杜集区龙湖工业园云龙路

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Fangyuan (Anhui) Intelligent Mining Equipment Co.,Ltd. has experienced the development of 20 years and grown into a powerful manufacturing corporation which can produce various global screen meshes in China.

As a high and new technology corporation of China, We insist on the development strategy of "To develop the enterprise on trust, to make the products with technology", and insist on independent research and innovation. The research and the develop center and a scientific research has established since the foundation of the company. The corporation focus on the the integration of production, education and research. In accordance with the state policies and the requirements of corporation's own development, the corporation establish it's own industry orientation, that is focal emphasis on the development of new products and new technology in areas of polyurethane application technology, executing the technology source strategy of independence research, co-development, and new tech introduction. Fangyuan always keeps making precise innovation in screen meshes. No high quality mesh, no high-end screen machine can screen various kinds of mineral materials. The mesh is the core of the separation field. Outstanding achievements were acquired in material formula, mould design and processing technic, which include many national patents of innovation, national products, provincial accomplishments and civic and provincial sci-tech innovation.

Backed by its powerful research capability, Fangyuan achieves technical breakthrough in the four main global brands of screen consisting of European CPU (MDI, TDI) moulding screen (including rubber screen panel with punched holes), Japanese TPU screen reinforced with steel wire, American polyurethane fine screen, South American Triangle screen mesh. At present, the corporation has become the global comprehensive screen manufacturer who has the export right of production.

Fangyuan always focus on the mineral processing industry chains, the products include high frequency screen, screen panel, cyclone unit, hardwearing scaleboard, roating moulding large-scale rubber covered roll, friction board of sand washer, cushion plate of conveyor, varieties of carrier roller, scratch board (including alloy type), polyurethane lined pipes, magnetic separator cylinder covered with Polyurea spray for anticorrosion.

Through fulfilling its commitment to continually deliver innovative products and services, Fangyuan will enhance its global prestige in mineral processing. Fangyuan Screen, Glory of China, Global Mining, Benefication Expert!

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Tel: 400 096 1178

Fax: 86-561-4685556

Web: www.ahfangyuan.com

E-mail: ahfy@ahfangyuan.com



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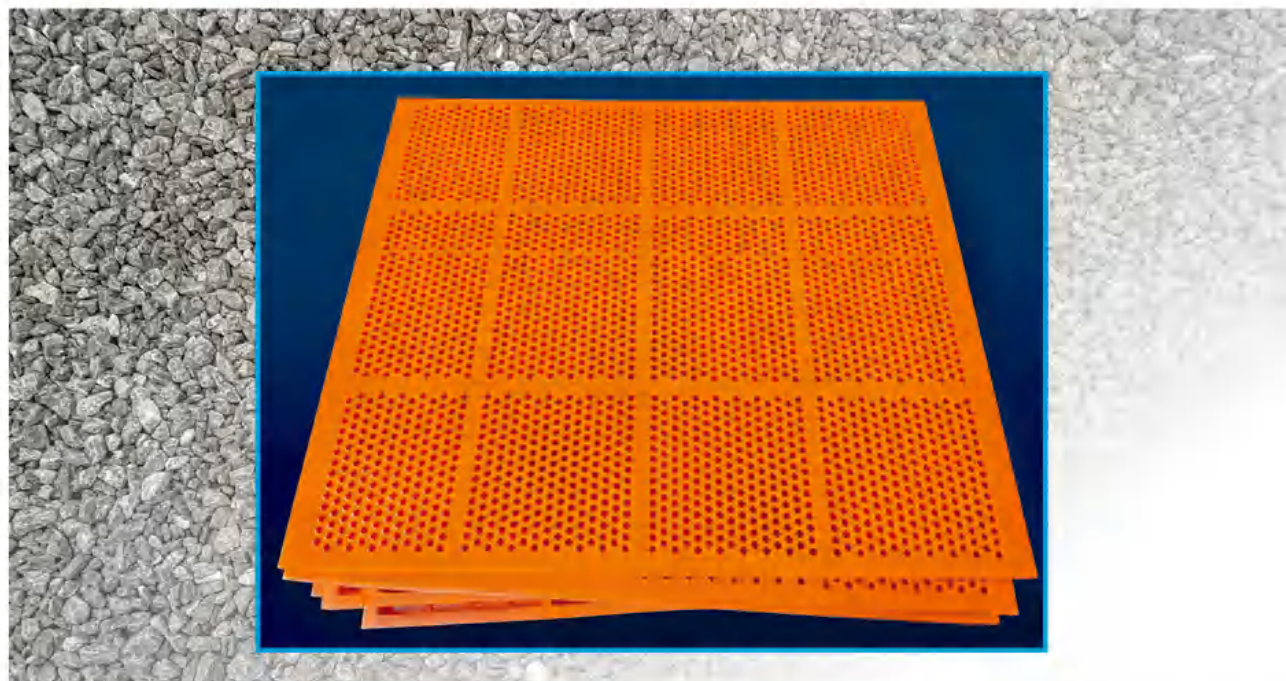
自方园建立伊始，我们的目标就是为客户提供可靠技术产品。年复一年的研究和创新，帮助客户在多种应用领域都能获得满意的成果。

Since the establishment of Fangyuan, our goal is "to provide customers with the Reliable technology and quality". Fangyuan devotes to the researches and innovations year by year to help customers to achieve the superior results in their application fields.

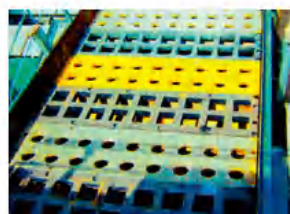


# POLYURETHANE SCREEN PANEL

—— 聚氨酯筛板



钢制筛网使用效果 The Application of Steel Screen Panel



使用前 BEFORE



使用后 AFTER

方园筛网（黄色筛网）在香港石澳石矿与澳大利亚筛网同机试用比较

Fangyuan Screen Panel (The Yellow One) Used in Hongkong SHEK O QUARRY LIMITED Compared With Australian Screen Panels.

安徽方园筛网

方园筛网为圆孔，黄色MDI,白色为TDI。在香港和澳大利亚方孔筛网同时安装比质量寿命。

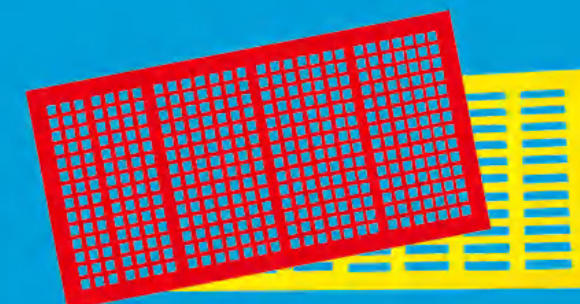
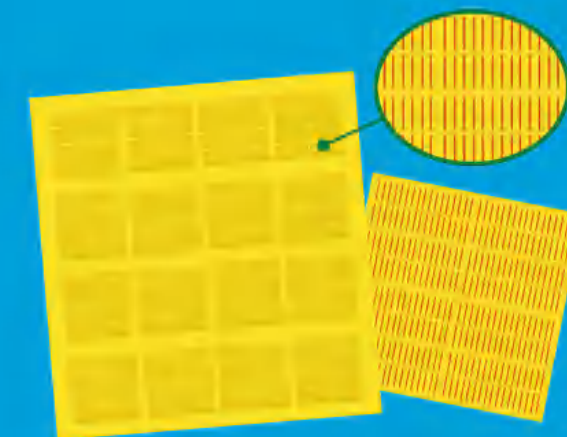
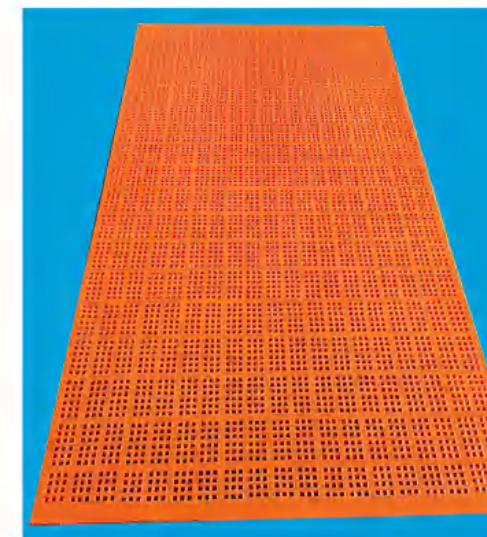
The circle apertures are produced by Fangyuan, the yellow one is made with MDI process, the white one is with TDI process. They are installed in one machine together with Australian square-hole screen panels in Hong Kong to compare quality and life.

## 『产品特点』

高耐磨性聚氨酯筛板具有重量轻、寿命长（是不锈钢筛板的2-3倍，是金属编织筛网的3-10倍），不堵孔，噪音低，脱水、脱介、分离效果好，安装方便可靠等优点。由于聚氨酯的以上性能，聚氨酯筛网已广泛应用于选煤、选矿、建材等行业。

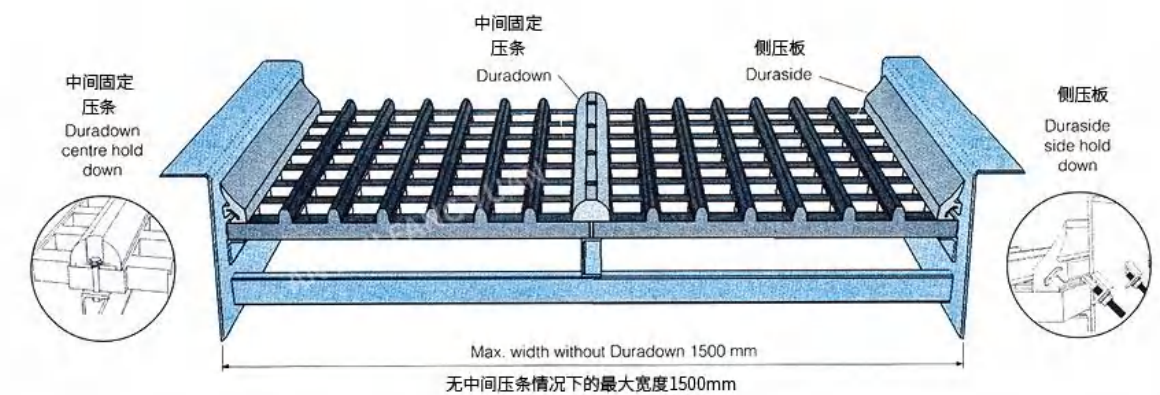
## Polyurethane Screen Panels Features

High wear resistance of polyurethane with light weight, long using life(which is stainless steel mesh of 2-3 times, the metal woven screen mesh of 3-10 times), non-blocking holes, low noise, good performance of dehydration, de-sliming and separation, easy installation and reliable. Because of the excellent properties, polyurethane screen panels are widely used in coal preparation, mineral processing and building materials separation.



# Standard Clip-rail PU Screen Panel

## 标准型卡轨式聚氨酯筛网



立筋式筛网工作原理：采用流槽架空大块物料的原理，物料在落在筛网上的瞬间即被分离，小物料顺着流槽下行过筛孔，大块物料被立筋架空，不会对筛网的筋部构成重大冲击，提高筛分效率，降低生产成本。  
The reinforced strip screen panel working principle is that using chute to lift the large stones, the particles are

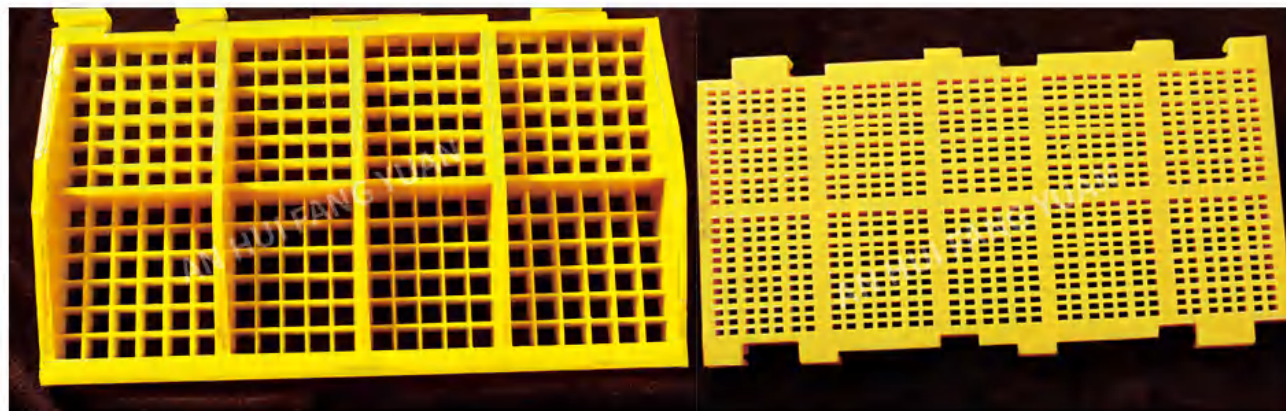
separated at the instant of falling on screen surface. The small material goes down the screen holes through the chute, large pieces of material are lifted by reinforced bar. There will be no significant impact on the reinforced bar of the screen panel, improve screening efficiency and reduce production costs.



特大石筛分使用金属丝网，堵孔严重。  
Steel wire screen meshes are used for super large stones screening, and the holes are blocked seriously.



方园特大石料筛分现场，不堵孔，效率高。  
Fangyuan super large stones screening application, non-blinding and high efficiency.



# Standard Rail Type PU screen Panel

标准型轨座式聚氨酯筛网

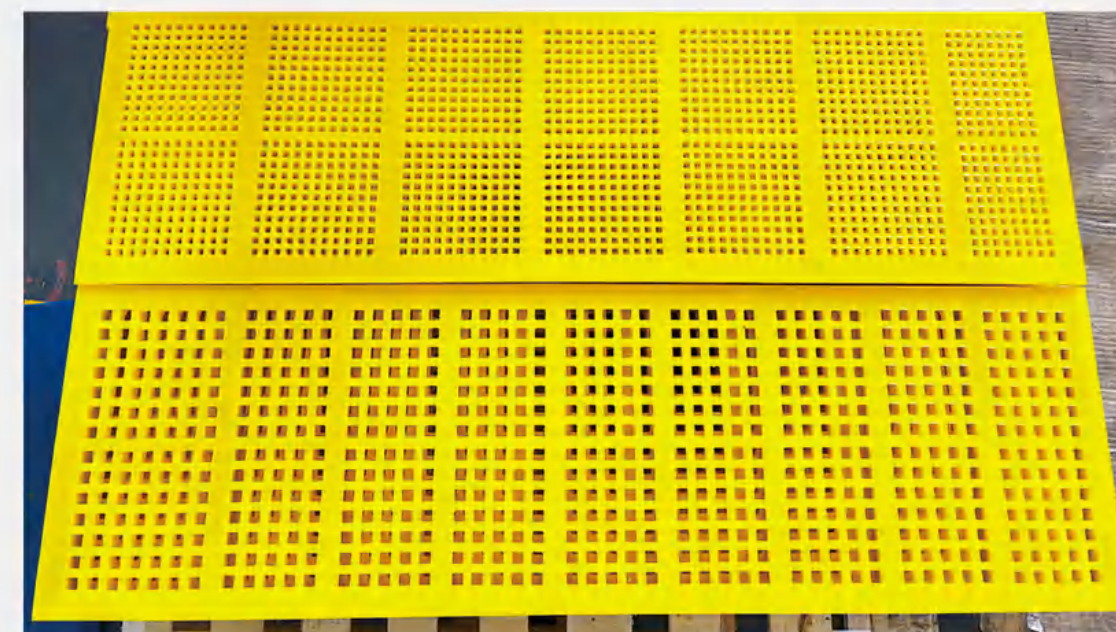


目前国际上多采用模块卡轨式筛网，采用柔性工作面，物料在筛网上产生二次弹跳，通过筛孔概率增加，自洁性能优良。

At present, modular clip-rail screen panels are widely used in global mining separation. The working face is flexible, the material bounces twice on the panel surface. The self-cleaning performance is excellent and the probability throughing mesh holes is increased.

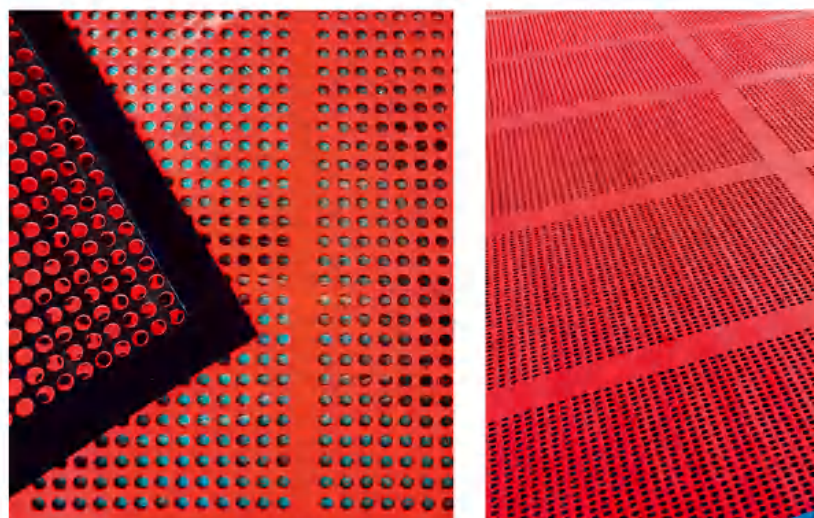


产品出口巴西、秘鲁、智利的筛网  
The products are exported to Brazil, Peru and Chile.



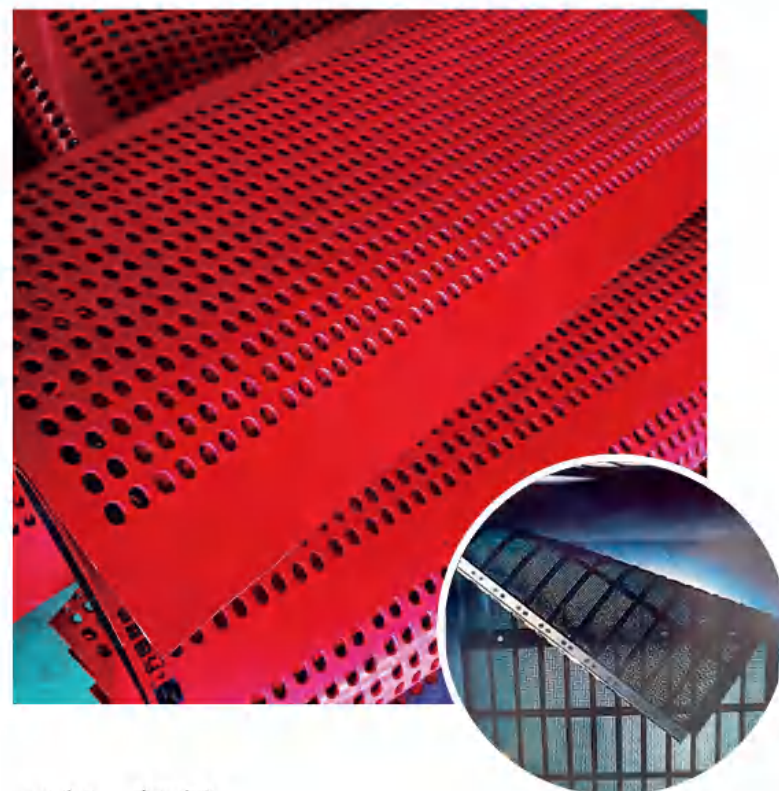
# Anti-blocking and Anti-sticking Flexible Screen Panel

## 防堵防黏柔性筛网



防堵防黏柔性筛网在振动筛分时保持高弹性,多次的振动、形变和回复把湿黏物料从筛面不断的向上弹起、抖散、筛分,避免了堵孔糊孔现象,尤其适用于湿黏状态下中细粒度物料的筛分。

The anti-blocking and anti-sticking flexible screen panel maintains high elasticity during screening. Repeated vibration, deformation and recovery constantly bounce, shake and screen the wet and sticky materials from the screen surface, avoiding the blocking and the sticky holes. It is especially suitable for the screening of medium and fine-grained materials in the wet and sticky condition.



采用方园防堵筛网可以解决上述问题,筛网给用户带来的效益巨大,筛网成本可忽略不计。

Using Fangyuan anti-blocking screen meshes can completely solve those problems. The screen brings great benefits to users, and the screen cost can be ignored.

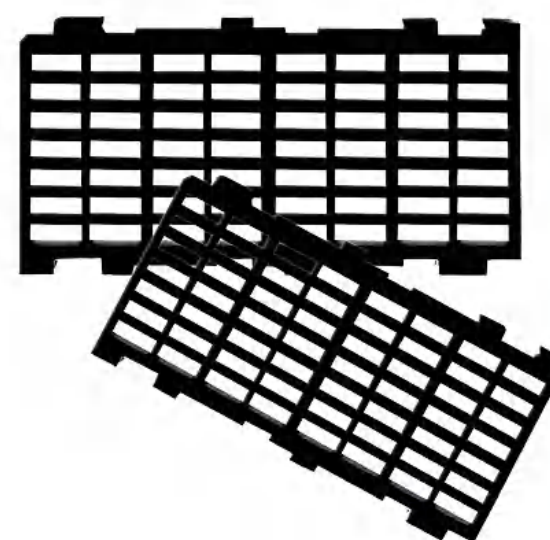


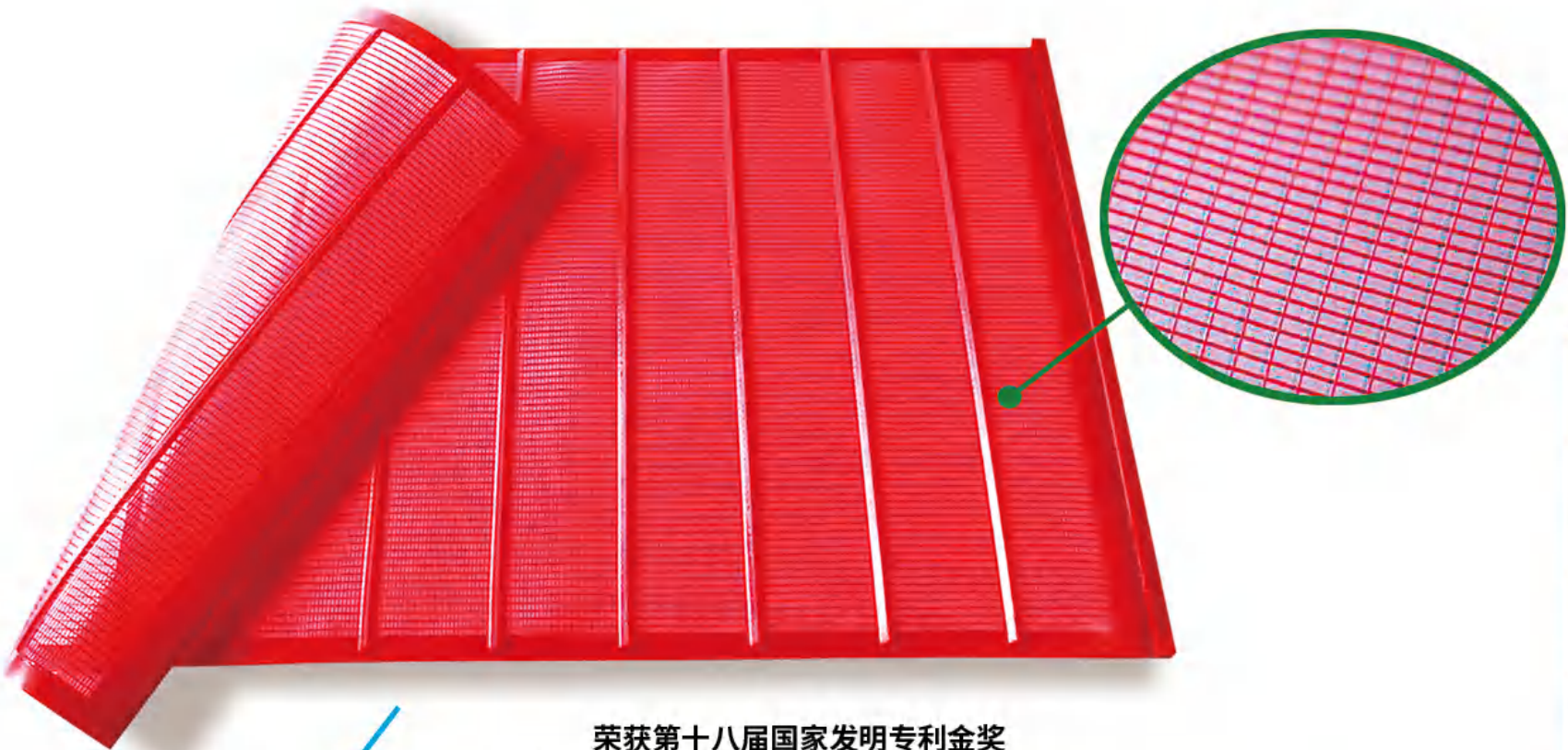
目前用户使用的菱形钢丝编织防堵网,堵孔造成夹细造成骨料不合格,设备运转效率低,产量和质量均受影响,职工劳动强度大。

At present, the rhombus steel wire woven anti-blocking screen mesh causes fine inclusion caused by hole blocking, resulting in unqualified aggregate, low equipment operation efficiency, affected output and quality and high occupational labor intensity.

## Rubber Screen Panel

### 橡胶筛网





荣获第十八届国家发明专利金奖  
Golden Prize for the 18th China Invention Exposition

FY—SIEVE 系列聚氨酯精细筛网  
FY-SIEVE POLYURETHANE FINE SCREEN MESH

『用途』

- 铁矿、煤矿、锡、钨、钽铌、铅、石英矿、锌矿等金属，非金属的精细物料筛分、分级、脱介。
- Screening, classification, and demineralization for fine materials including iron ore, coal mine, sand, zinc ore, quartz minerals and other metals and non-metal materials.

『特点』

- 开孔率高（32%—42%），筛分效率高，处理量大。
- 整体一次浇注成型、内置芳纶纤维骨架，提高筛网抗拉强度不会出现整体开裂现象。
- 筛孔采用锥孔设计，有利于物料通过，不易堵孔。
- 筛网直接拉紧固定安装在筛框上，筛丝绷紧，筛缝不变形。
- 筛分分级精度高，使用寿命长。
- 进口聚氨酯材料，严谨的材料配方，弹性、柔性增强，耐磨防腐。
- Superior capacity and performance with high open area of 32%–42%.
- The fine screen sieve is manufactured as a whole with one-time forming processing, reinforced with fiber, the tensile strength and useful life are improved, as a result, the craze is been avoided.
- The screen slot is designed with taper shape, which is not easy to block, at the same time, the materials are easy to get through.
- The screen mesh is directly tightened and fixed on the frame, the screen wires are tight and the screen slots are not deformed.
- The screening and grading are accurate and the service life is prolonged.
- Imported polyurethane raw material, unique material formula, improving elasticity and flexibility, wear resistance and corrosion resistance.

『技术参数』

| 规格尺寸(mm)<br>Specification               | 开孔率(%)<br>Opening rate | 孔径(mm)<br>Aperture |      |       |      | 重量(kg)<br>Weight |
|-----------------------------------------|------------------------|--------------------|------|-------|------|------------------|
| 1050x702                                | 32%-42%                |                    |      |       |      | 1.51             |
| 1220x702                                |                        |                    |      |       |      | 1.82             |
| 1245x702                                |                        | 0.075              | 0.1  | 0.125 | 0.15 | 2.12             |
| 1245x840                                |                        | 0.18               | 0.2  | 0.23  | 0.25 | 2.46             |
| 1450x840                                |                        | 0.3                | 0.32 | 0.35  | 0.43 | 2.96             |
| 1400x1000                               |                        | 0.5                | 0.6  | 0.7   | 0.85 | 3.12             |
| 其他尺寸可定制<br>Other size can be customized |                        | 1.0                | 1.5  |       |      |                  |

『技术核心』

- 聚氨酯精细筛网两项国家发明专利
- 纤维增强聚氨酯精细筛网及其成型方法
- 荣获第十八届国家发明专利金奖
- Achieved two Invention Patents .
- Fiber reinforced polyurethane fine screen mesh and its molding method.
- Achieved Golden Prize for the 18th China Invention Exposition.

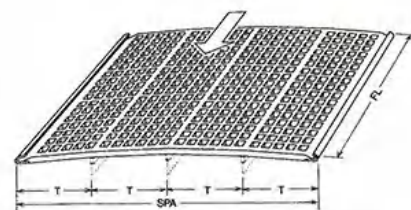
『部分现场』



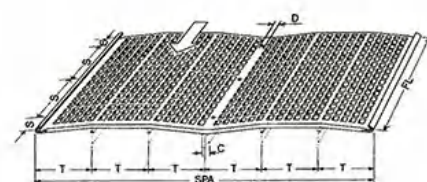


# Screen Mesh Installation Diagram

## 筛网安装工艺

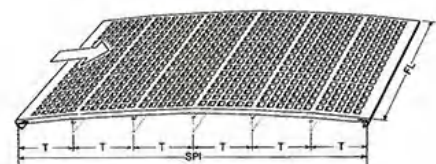


**A** 一种弧型安装方法  
An arc installation



**B** 筛网双弧型安装方法，中间采用聚氨酯压条，螺丝内置在压条中。

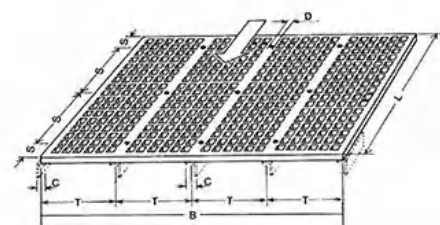
Double arc installation, in the middle, polyurethane layering is fixed by screws which are built in the layering.



**C** 中型筛机一次性弧型安装的方法，优点为物料在筛机前端供料板下料时，物料往两边分流，物料在筛上停留的时间延长，提高筛分效率。

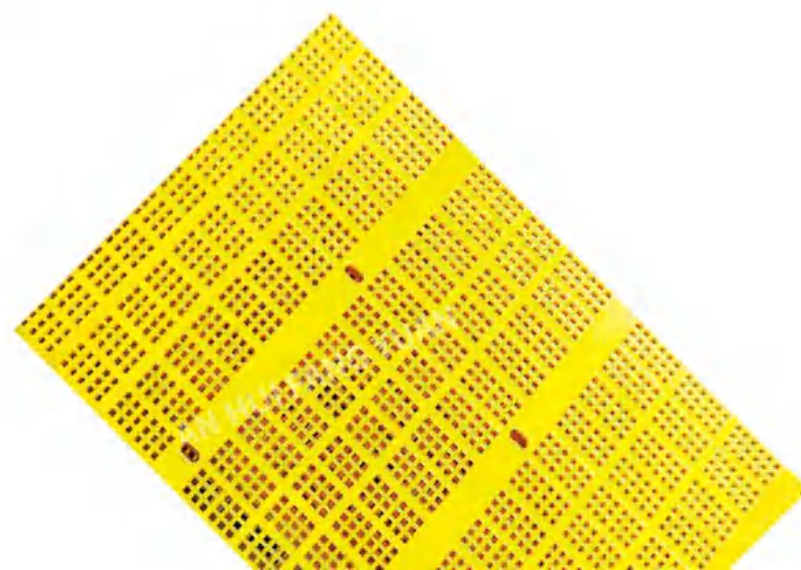
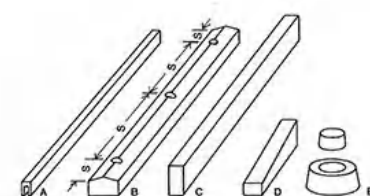
One-time arc-type installation of medium-sized machine

Advantage: when the material is discharged from the front feeding plate of screen, the material is diverted to both sides, the residence time on the screen is prolonged, and efficiency is improved.



**D** 内置钢骨架的平面筛网安装，采用压条固定筛网表面

The Screen mesh built with steel skeleton fixed with the PU layering on the screen mesh surface.



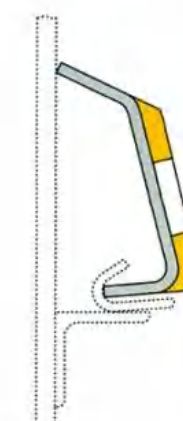
筛网安装工艺要从生产出高品质筛网再到科学合理的安装质量，对筛网的使用寿命，筛分质量，筛分效率，提高设备的运转效率，降低维护成本都至关重要。

The screen installation process screen installation process from the production of high-quality screens to scientific and reasonable installation quality are essential to the screening service life, screening quality, screening efficiency, improving the efficiency of equipment operation, reducing maintenance costs.



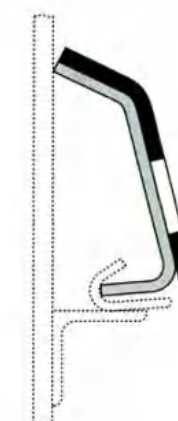
采用金属固定弯铁拉紧筛网

Tension the screen mesh with metal fixed bending bar.



采用半衬聚氨酯的固定弯铁，耐用，降低噪音

Semi lined polyurethane for bending iron, durable and noise reducing.



全部用橡胶包覆固定弯铁，减少更换次数

The fix bending bar is all covered with rubber to reduce the frequency of replacement.



腐蚀性颗粒撞击刚性金属表面，动能转换成冲击力、摩擦力和噪音。

When abrasive particles impact the rigid metal surface, kinetic energy transforms into impact strength, frictional force and noise.

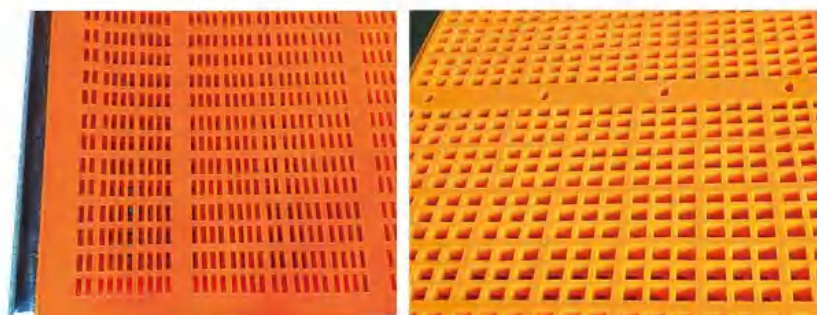
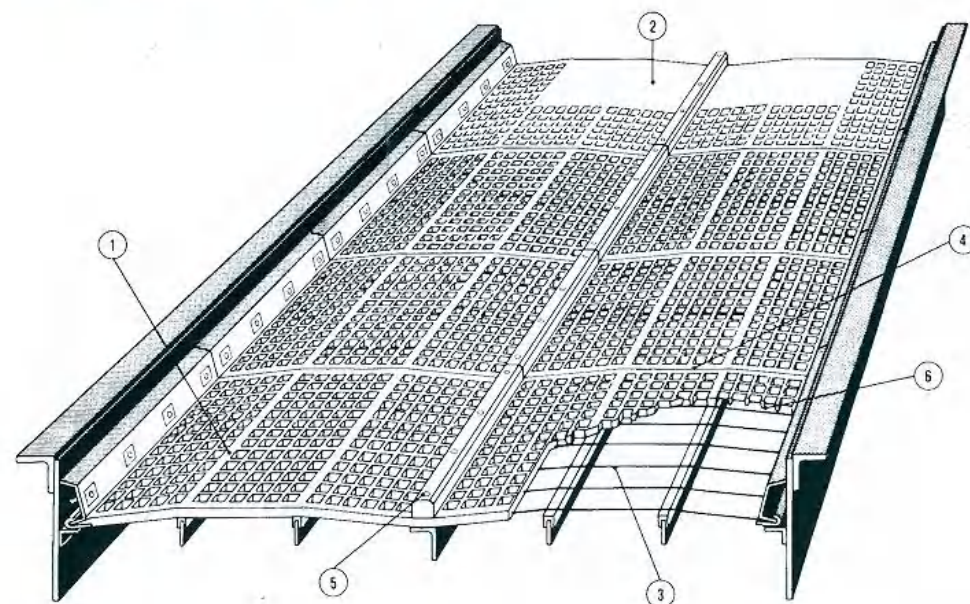


腐蚀性颗粒撞击柔性橡胶表面，橡胶受压变形，把大部分动能返还给颗粒，从而避免了上述磨损。

The abrasive particles impact the flexible rubber surface, the rubber deforms under this pressure, returning most of the kinetic energy to the particles, so as to avoid the above problems.

# TENTIONED POLYURETHANE SCREEN PANELS

## —— 涨紧式筛网的优点



- (5) 在适当的位置浇注有柱栓孔，以确保中心准确固定
- (6) 方园筛网的筛孔为锥形设计，使筛分效率更高

- (1) Fangyuan screen panels are blanked out and reinforced over the support bar areas to prevent from wearing and ensure the installation
- (2) The impact areas are blanked out and made thicker
- (3) Fangyuan screen panel reinforcement is designed to stretch in order to ensure the correct tension and maintain the shape under the load
- (4) Fangyuan screen panels have been machined and reinforced edges, it can make a perfect seal between screen panels
- (5) Bolt down holes are cast in appropriate places to ensure the accurate center location
- (6) The slots of Fangyuan screen panels are tapered in design to aid the screening action to optimize the efficiency.



## Hump-shaped Stereoscopic Screen Panel

### 驼峰立体筛网

驼峰立体筛网开孔率高，筛孔均匀且耐磨，同等网孔设计成非平面的“山脊”形状，使筛网的筛分面积增加一倍，脱水脱介效率更高，同时保留细颗粒物料。

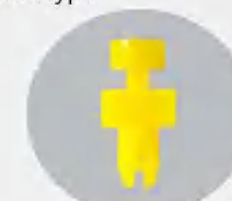
The hump-shape stereoscopic screen panels have high opening rate, uniform and wear-resistant screen holes. The same mesh is designed into a non planar "ridge" shape, which doubles the screening area , effectively dehydrates and disintegrates, and retains fine-grained materials at the same time.



胀栓式  
Expansion bolt type



轨座式  
Rail seat type



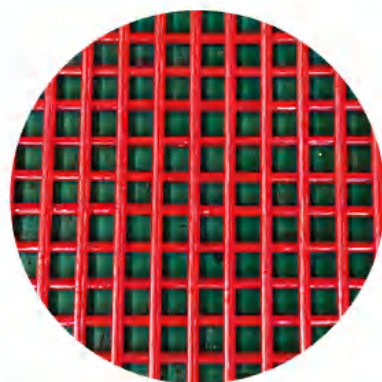
聚氨酯胀栓  
Polyurethane expansion bolt

# TPU Hot-melt Wire Mesh

## TPU 热熔棒条筛网

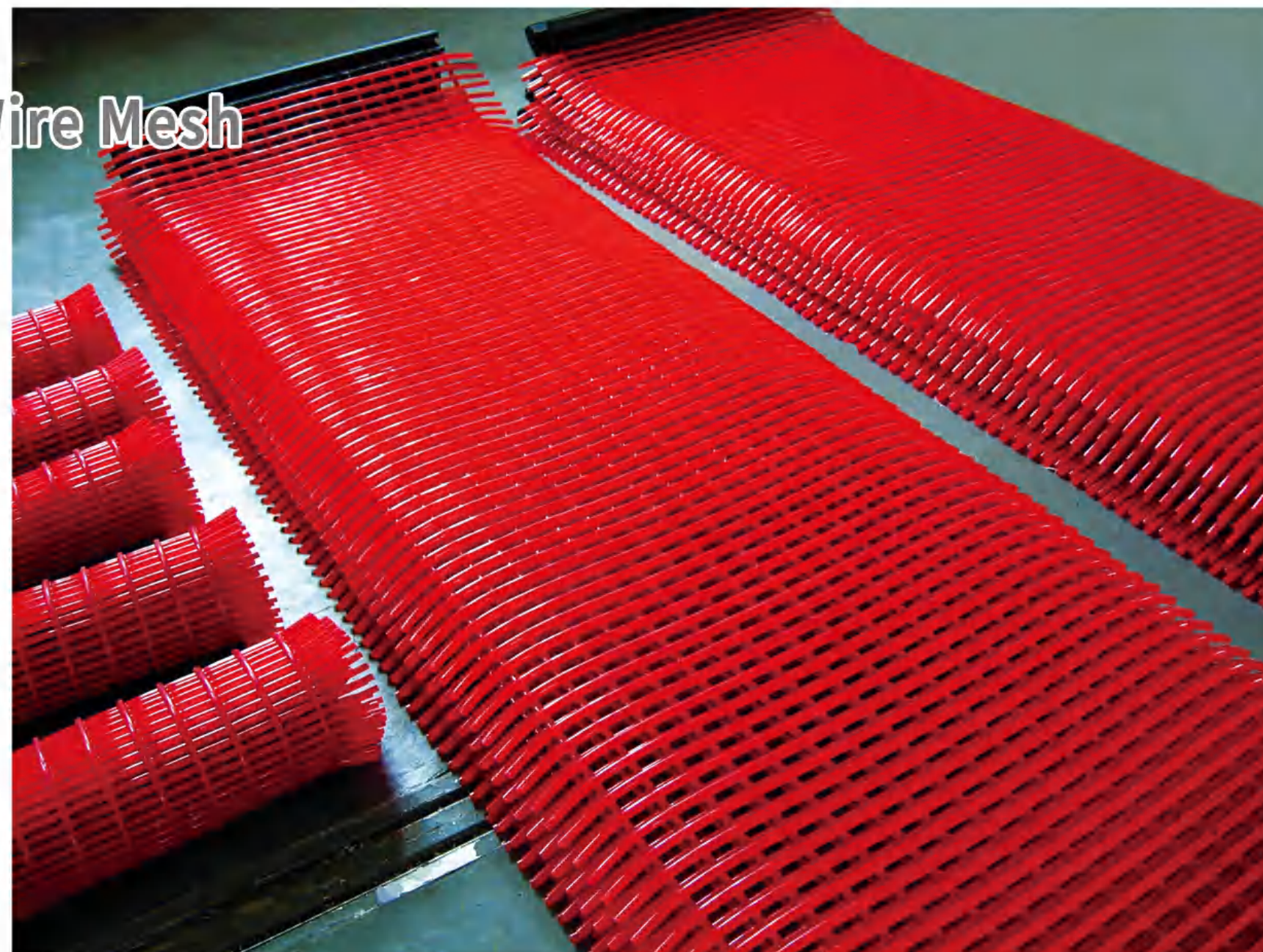
TPU热熔棒条筛网开孔率高，内置钢丝增强骨架，采用TPU工艺成型，使用寿命长，重量轻，安装方便，对于中细粒度的应用效果好。

TPU Hot-melt Wire Mesh has very high opening rate reinforced with steel wire skeleton, which is formed by TPU process. The advantages include long service life, light weight and convenient installation. It is a suitable choice for medium and fine particles separation.



纵向横向均内设钢丝绳，强度高，分级效果好。

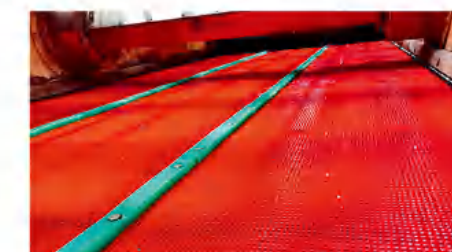
Steel wire ropes are vertically and horizontally lined, the high strength and good classification can be achieved.



横向内置钢丝绳TPU，横向TPU棒条无钢丝绳，筛网不堵孔，适合干法筛分。  
Transverse TPU bar is without wire rope inside, non-blinding, it is suitable for dry sieving.



CPU，MDI和TPU热熔筛网在同等条件下，该筛网透筛率高达20%以上；  
Under the same conditions, the screening efficiency of TPU screen panels is 20% higher than CPU MDI panels ;



在湿法筛分状态下，比同款钢制编织网透筛率高20%以上，用户选择和生产厂家专业推荐是密不可分的。  
In the wet screening situation, the efficiency is more than 20% higher than that of the same steel woven mesh. Selection of users is inseparable from the professional recommendation of manufacturers.

PU弹簧钢金属组合式弹性杆筛网，适用于黏性物和钢厂高温物料筛分。  
PU Spring Steel Metal Combined Elastic Rod Screen Panels are suitable for screening viscous materials and high temperature materials in steel plants.





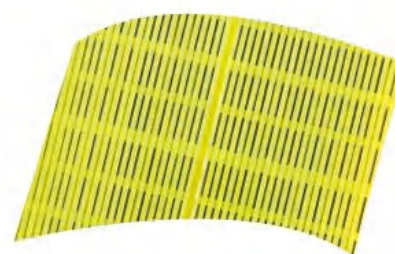
# Flip-flow Screen Panel

弛张筛网



# Arc Screen Panel

—— 弧形筛网

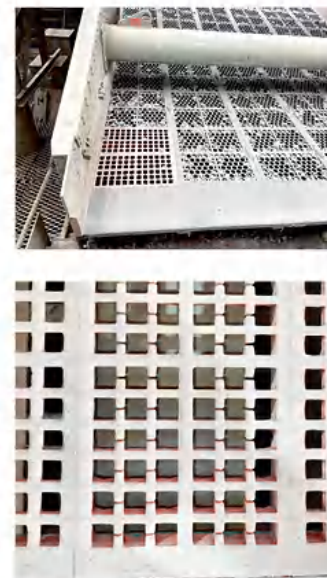
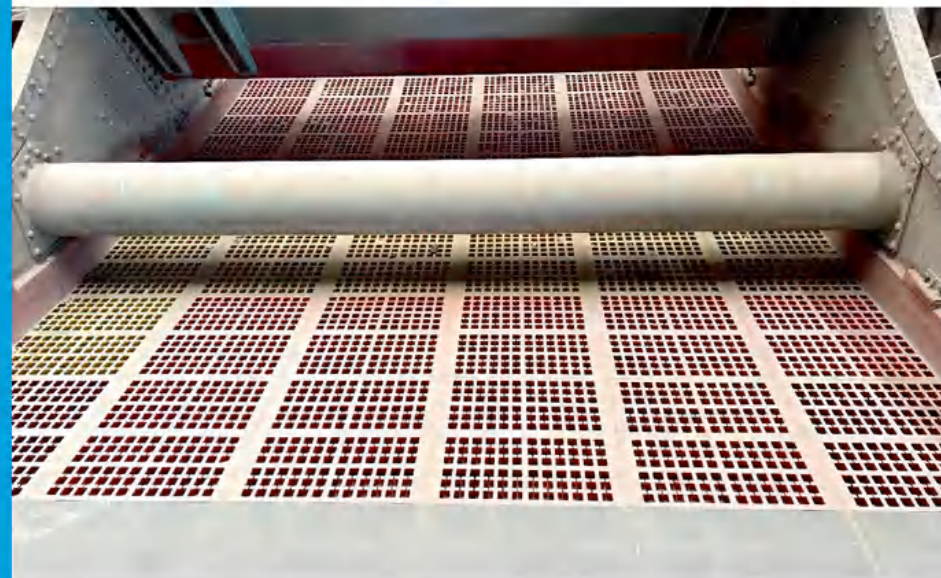
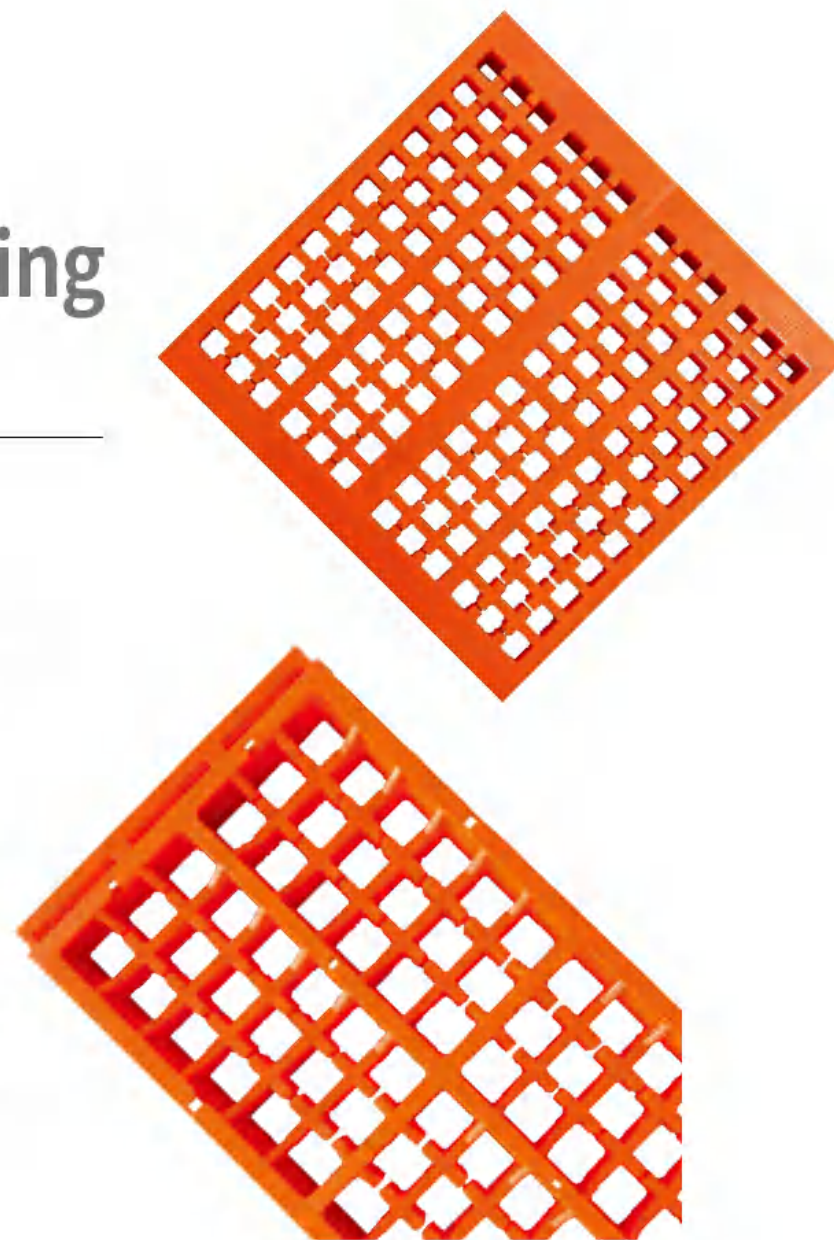


# Gap Anti-blocking Screen Panel

## 聚氨酯断筋孔筛网

聚氨酯断筋孔筛网可有效解决大物料堵孔问题，用于锥形、多棱形物料上优势更加明显。

Gap Anti-blocking Screen Panels can effectively solve the problem of blocking holes in large particle materials screening and has obvious advantages in cone-shaped and polygon-shaped materials screening application.

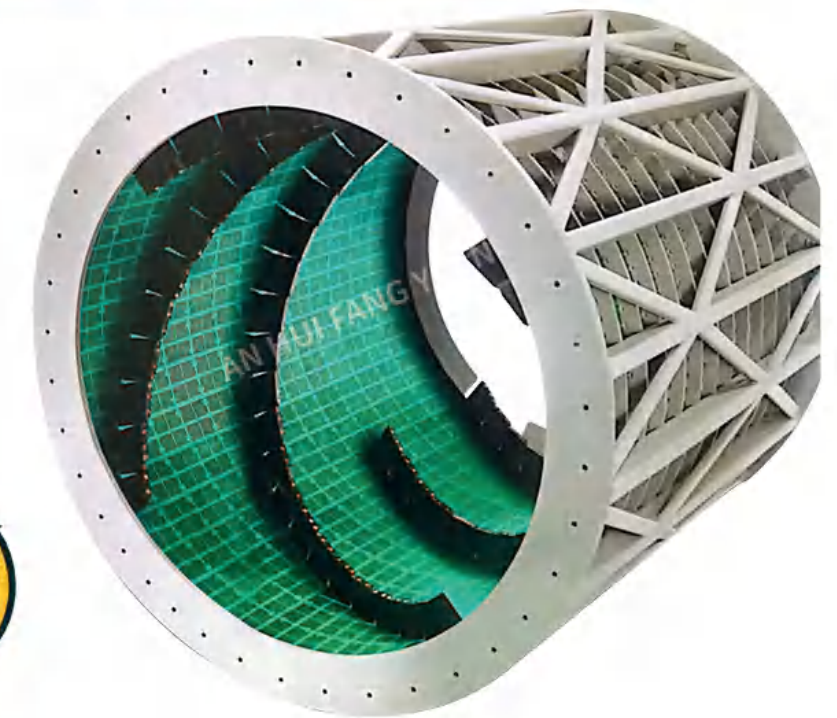


## 滚筒筛网与球磨机配套使用

Trommel Screens are used together with ball mills.

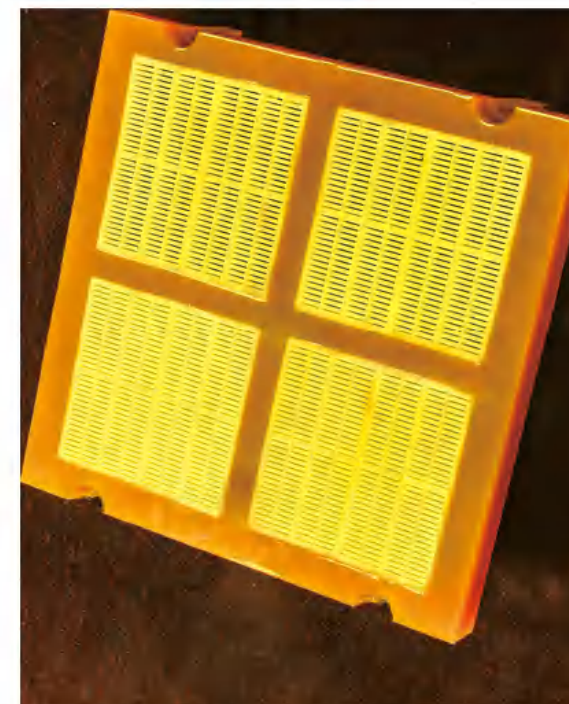
### Trommel Screens

#### 滚筒筛网



### Flat 305\*305 Screen Panel

#### 平面305\*305筛网



# PU Wave-shape Screen Panel

—— 聚氨酯波浪形筛网



波浪形状筛面的设置，更加优化物料在筛面上的运行轨迹，使物料在筛面上滚动前进，利用不同粒度颗粒物料爬坡能力的差异促进物料分层，大颗粒快速越过波峰继续运行，小颗粒和水份滞留在波谷内完成筛分透筛；

波浪形状的筛面有利于物料运行过程中的横向位移，有利于物料在整个筛面上的均匀布置，有利于提高物料的筛分效果；实践证明采用此种结构的筛机可以提高筛透率，减少回破工作量，减少电能损失和设备无功损耗。

The arrangement of the wave-shaped screen surface more optimizes the running trajectory of the materials on the screen surface, makes the materials roll forward on the screen surface, and promotes the layering of the materials by using the difference of the climbing capacity of the granular materials with different particle sizes; large granules quickly cross over a crest to continue running, and small granules and moisture retain in a trough to complete penetrating screening;

The wave-shaped screen mesh surface is beneficial to transverse displacement in a material running process, is beneficial to uniform arrangement of the materials on the overall screen surface, and is beneficial to improving the screening effect of the materials; Practice proves that the screening machine adopting the structure can improve the penetrating screening rate, greatly reduces the workload of secondary crushing, and reduces power loss and reactive power loss of equipment.



# Conveyor Sweeper

输送带清扫器



- ◆无运动部件和例行维护；
- ◆支撑面积大，减少皮带松垂、损坏和物料洒落；
- ◆吸收冲击能量；
- ◆面板为摩擦阻力小的高强聚乙烯，底部为抗震性强的橡胶；
- ◆简便的T型螺栓固定；
- ◆安装快捷、简便，易于检查更换；
- ◆倾斜端面防止绊住皮带扣；
- ◆承受强烈冲击；
- ◆适用多种宽度和槽角；
- ◆装置与皮带运输机的受料点，延长皮带寿命。

No moving parts and routine maintenance;  
Supporting large area to reduce the belt sag, damage and material floating down;  
Absorbing the impact energy;  
Panel for a small high-strength polyethylene friction, the bottom of a highly shock resistance rubber;  
Simple T-bolted;  
Quick installation, simple and easy to check the replacement;  
Tilt-end to prevent the enmesh belt buckle;  
Withstanding a strong blow;  
Suitable for a variety of widths and slot angles;  
Device and belt conveyor of the subject material point, to extend the belt life.

# PU Covered Roller

## 包胶滚筒

包胶滚筒是矿山广泛应用的输送部件，耐磨性强的包胶滚筒对输送带的使用寿命有着重要的影响，减少更换次数，降低生产成本。

PU Covered rollers are widely used for conveying in mines. Strong wear resistant PU covered roller has an important impact on the service life of conveyor belt, reducing the number of replacements and production costs.



## Comparison of Polyurethane Hydraulic Spiral Classifier and The Metal One



### 水力螺旋分级机对比图

采用新材料聚氨酯替代金属叶片，减轻重量，节省电力，减少更换次数。

金属叶片寿命短，重量大，耗电高，维修量大。

Use new material polyurethane instead of metal blade to reduce weight, save power and reduce the number of replacement.

The metal leaf has the disadvantages of short life, heavy weight, high power consumption and large maintenance.





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方园（安徽）智能装备有限责任公司采用法国浇注设备生产聚氨酯制品，可满足不同矿山物料的加工洗选的工艺要求。

Fangyuan (Anhui ) Intelligent Mining Equipment Co.,Ltd. adopts the France producing equipment produce polyurethane products, which can meet the processing and washing requirements of different mine materials.



胀栓  
Expansion bolt



保护套  
Protection sleeve



清扫器  
Sweeper



轨座  
Rail seat



喷水嘴  
Spraying nozzle



螺旋分级机导流板  
Hydraulic spiral classifier  
guiding plate



球磨机端板  
Ball mill lining



卡轨  
Clip rail type



聚氨酯保护套  
Polyurethane protective  
sleeve



聚氨酯衬板  
PU Lining Board



橡胶保护套  
Rubber Protection Sleeve



进口法国博雷浇注机  
Balue Casting Machine  
Imported from France

AN HUI FANG YUAN



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FANGYUAN(ANHUI) INTELLIGENT  
MINING EQUIPMENT CO.,LTD.

FY-GPS高频脱水筛  
FY-ZKB直线振动筛



方园（安徽）智能装备有限责任公司  
FANGYUAN(ANHUI) INTELLIGENT MINING EQUIPMENT CO.,LTD.



## 企业概况 COMPANY PROFILE

方园(安徽)智能装备有限责任公司位于素有“中国碳谷”之称的能源城市——安徽省淮北市。厂区坐落在安徽省淮北市龙湖高新技术产业开发区。公司是“国家级高新技术企业”，是ISO三体系认证企业。

方园公司是上世纪九十年代由原淮北市橡胶厂筛板分厂经过分离改制而成。经过几十年的奋斗，目前公司有三个厂区：筛分设备制造厂、聚氨酯精细筛网制造厂、筛板（金属、非金属）制造厂。产品覆盖金属选矿、非金属选矿、选煤、建材等多个行业，主要包括：叠层高频筛、高频筛、直线筛、分级旋流器、聚氨酯精细筛网、聚氨酯和橡胶筛板、金属筛网与筛板及各种筛分设备配件。

方园公司成立伊始，便创建了科技研发中心，组建科研团队，致力于开展“产学研”活动。先后与北京航空航天大学、中国矿业大学、安徽理工大学、淮北师范大学等高等院校及周边大型国有企业进行合作，不断引进人才，开发新产品、生产新工艺。其中与北京航空航天大学合作研发的聚氨酯精细筛网获得两项国家发明专利，打破了聚氨酯精细筛网进口的垄断地位；与中国矿业大学、山东新汶集团新巨龙选煤厂联合开展的“降低重选下限粗精煤泥直接回收”的工艺技术研究获得“国家科技成果”奖。

Fangyuan (Anhui) Intelligent Mining Equipment Co., Ltd is located in Longhu Hi-tech Economic Development Zone in Huaibei which is called the "China Carbon Valley" energy city. It is rated as a "National High-tech Enterprise" and an ISO three-system certification enterprise.

Fangyuan was formed by the separating and restructuring of Rubber Screen Panel Branch of the former Huaibei Rubber Factory in the 1990s. After decades of struggle and effort, the company now has three factories: Screening equipment factory, polyurethane fine screen mesh factory and metal and non-metal screen panels factory. The products can be widely used in metal mineral processing, non-metal mineral processing, coal preparation, building materials and other industries, the products are mainly multideck high frequency screen, high frequency screen, linear screen, grading cyclone, polyurethane fine screen mesh, polyurethane screen panel, rubber screen panel, metal screen mesh, metal screen panel and various screening equipment accessories.

At the beginning of its establishment, Anhui Fangyuan has established the R & D center with complete facilities and a high-level scientific research team. Fangyuan is always committed to carrying out "Production, Learning and Research" activities. It has successively cooperated with Beihang University, China University of Mining and Technology, Anhui University of Science and Technology, Huaibei Normal University and other large-scale state-owned enterprises in the surrounding areas to introduce talents, develop new products and new production processes continuously. Among them, the polyurethane fine screen mesh developed in cooperation with Beihang University won two national invention patents, breaking the monopoly of imported polyurethane fine screen meshes. Jointly carried out with China University of Mining and Technology and Xinjulong Coal Preparation Plant of Shandong Xinwen Group, the process technology research on "Reducing the Lower Limit of Gravity Separation and Improving the Recovery of Coarse Clean Coal Slime" won the "National Science&Technology Achievement" award.

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Global Mining Beneficiation Expert To Develop The Enterprise On Trust To Make the Products With Technology



## 国家专利技术认证

National Patent Technology Certification



# FY-GPS Series High Frequency Dewatering Screen

FY-GPS 高频脱水筛



- 筛机过流部位喷涂耐磨聚氨酯涂层，其余整体喷涂环氧漆。
- 筛板使用聚氨酯材料，开孔率高，使用寿命长。
- 振动电机采用国内知名品牌，功耗低，振幅稳定。
- Abrasion-resistant polyurethane coating was sprayed on the flow passage part of the screen, while epoxy paint is sprayed on the rest part wholly.
- The screen panels are made of polyurethane raw material, which has high opening rate and long service life.
- A Chinese well-known brands vibration motors are installed on the screen, with low power consumption and stable amplitude.

## FY-GPS- 系列高频脱水筛的筛网优势

FY-GPS Series High Frequency Dewatering Screen

方园高频脱水筛所配备的筛板为防堵耐磨聚氨酯筛板，安装方式为轨座式安装。

- 筛网采用驼峰非平面筛网，开孔率高，同等网孔，该筛网设计成非平面的“山脊”形状，增加筛网的筛分面积，使筛分效率加倍。
- 与原始筛网相比，该筛网使滤水性能加倍，高效脱水、脱介。
- 标准模块生产，使用安装销连接安装，可根据客户要求设计孔径。
- 方园驼峰立体筛网表面的筛孔增加，提高了筛机的处理量。

The screen meshes of Fangyuan Linear Vibrating Screen is anti-blocking and wear-resistant, the installation method is rail seat type.

- The non-plane hump-shape screen meshes are installed the screen machine, which has high opening rate. For the same area, the screen is designed into a non-plane "hump" shape, which increases the screening area and doubles the screening efficiency.
- Compared with the original screen, the screen doubles the water filtration performance, and effectively dehydrates and degrades the substance.
- The screen panels are produced with standard modules, connected and installed with installation pins, and the apertures can be designed according to the customer's requirements.
- The screen holes on the non-plane hump-shape screen surface are increased, which improves the processing capacity of the screen machine.



FY-GPS Series High Frequency Dewatering Screen

## FY-GPS 系列高频脱水筛的特征及优势

FY-GPS Series High Frequency Dewatering Screen Technical Data

FY-GPS 系列高频脱水筛融合了先进的筛分技术与制造工艺，按照免维护、高可靠性、高振动强度设计，适用于各种严峻恶劣的工况条件，在冶金矿山、煤炭、有色、建材、化工等金属及非金属领域广泛使用。

除此之外，筛缝的开口类型设计还有有方孔、圆孔和长孔，能够适应任何特殊的筛分，减少堵孔现象。方园振动筛配备的防堵耐磨聚氨酯筛板寿命长，筛分效率高，便于拆卸更换，能够满足现场的生产需要。

FY-GPS 直线振动筛秉承严谨务实的设计理念，确保可靠性高，故障率低，提供质量保证，确保每台设备都能正确运转。

FY-GPS series Linear Vibrating Screen integrates advanced screening technology and manufacturing process. It is designed according to maintenance free, high reliability and high vibration intensity, and is suitable for various severe working conditions. It is widely used in metal and non-metal fields such as metallurgical mines, coal, non-ferrous, building materials, chemical industry, etc.

In addition, the square holes, round holes and long holes in the opening design of the screen apertures are available, which can adapt to any special screening and reduce the hole plugging situation. The anti-blocking and wear-resistant polyurethane screen meshes has long using life, high screening efficiency, easy disassembly and replacement, and can meet the production needs on site.

FY-GPS Linear Vibrating Screen adheres to the rigorous and practical design concept, ensuring high reliability, low failure rate, providing quality assurance, and ensuring the correct operation of each equipment.

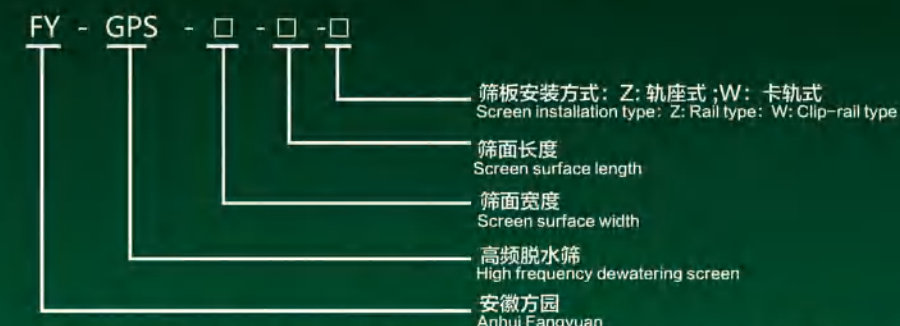
## FY-GPS- 系列高频脱水筛机主要技术参数

FY-GPS Series High Frequency Dewatering Screen Mesh Technical Data

| 型号<br>Model  | 层数<br>Deck qty | 筛分面积<br>Sieving Area<br>(m <sup>2</sup> ) | 处理量<br>Handling Capacity<br>(t/h) | 功率<br>Power<br>(kW) | 频率<br>Frequency | 双振幅<br>Double amplitude<br>(mm) | 倾角<br>Sieving Obliquity<br>(°) |
|--------------|----------------|-------------------------------------------|-----------------------------------|---------------------|-----------------|---------------------------------|--------------------------------|
| FY-GPS -1236 | 1              | 4.32                                      | 26-40                             | 2x2.3               | 1500            | 0~3                             | -5-0                           |
| FY-GPS -1536 | 1              | 5.4                                       | 33-40                             | 2x3.7               |                 |                                 |                                |
| FY-GPS -1836 | 1              | 6.48                                      | 40-60                             | 2x3.7               |                 |                                 |                                |
| FY-GPS -2136 | 1              | 7.56                                      | 40-60                             | 2x6.3               |                 |                                 |                                |
| FY-GPS -2445 | 1              | 10.8                                      | 60-80                             | 2x6.3               |                 |                                 |                                |

## FY-GPS- 系列高频脱水筛型号说明

FY-GPS Series High Frequency Dewatering Screen Model Description

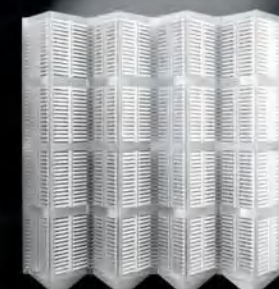


FANGYUAN (ANHUI) INTELLIGENT MINING EQUIPMENT CO., LTD.

## FY-GPS高频脱水筛FY-GPS Series High Frequency Dewatering Screen

FY-GPS高频脱水筛引用德国先进的设计理念，加工工艺以及检测技术，根据等厚筛分原理，采用多角度筛面设计。具有稳定性、处理寿命长优点。广泛用于煤炭、冶金，化工等行业物料的分级，脱水，脱泥，脱介等作业。

FY-GPS Series High Frequency Dewatering Screen adopts advanced German design concept and firstclass detection technology of processing technology. It is designed with the principle of equal thickness screening and multi angle screen surface design. It has the advantages of strong stability, large processing capacity and long service life. It is widely used in separation, dewatering, desliming and demineralization of coal, metallurgy, chemical industry and other industries.



筛网采用驼峰立体非平面筛网设计，开孔率高，增加筛网的筛分面积，使筛分效率加倍，高效脱水，脱介。The screen panel are designed as hump-shape stereoscopic non plane screen panels, which have high opening rate, increase the screening area, double the screening efficiency, and effectively dehydrate and disintegrate.



聚氨酯驼峰立体筛网，聚氨酯浇注成型具有高效、节能、环保。降低噪音等优点。安装方便，为企业节能降耗。Polyurethane hump-shape non plane screen is produced with polyurethane casting molding, the advantages are high efficiency, energy saving, environmental protection and noise reduction, convenient installation, its also can save energy and reduce consumption for enterprise.



### 筛机下梁表面聚脲喷涂

Polyurea spraying on the surface of screen under beams  
筛下梁表面喷涂耐磨聚脲材料，进行退火热处理，消除焊接应力。侧板、护板采用数控等离子整体下料；连接件采用高强度铆接螺栓连接，无焊缝设计。

The surface of screen beams are sprayed with wear-resistant polyurea material, and annealing heat treatment was carried out to eliminate welding stress. The side plates and guard plates are cut by CNC plasma; the connectors are connected by high-strength riveting bolts without welding seam.



### 高频振动电机

High frequency vibrating motor

筛箱主机由两台高频振动电机驱动，产生直线运动。使物料沿运动方向产生抛射运动，实现筛分、脱水的目的。

The main body of screen is driven by two high-frequency vibration motors to generate linear motion, so that the material can be ejected along the moving direction, so as to operate the screening and dewatering



### 高强度合金钢

High strength alloy steel

筛机主体采用高强度合金钢，主振动梁采用厚壁无缝钢管设计

The main body of the screen machine is made of high strength alloy steel, and the main vibration beam is designed with thick wall seamless steel pipe.



### 橡胶弹簧

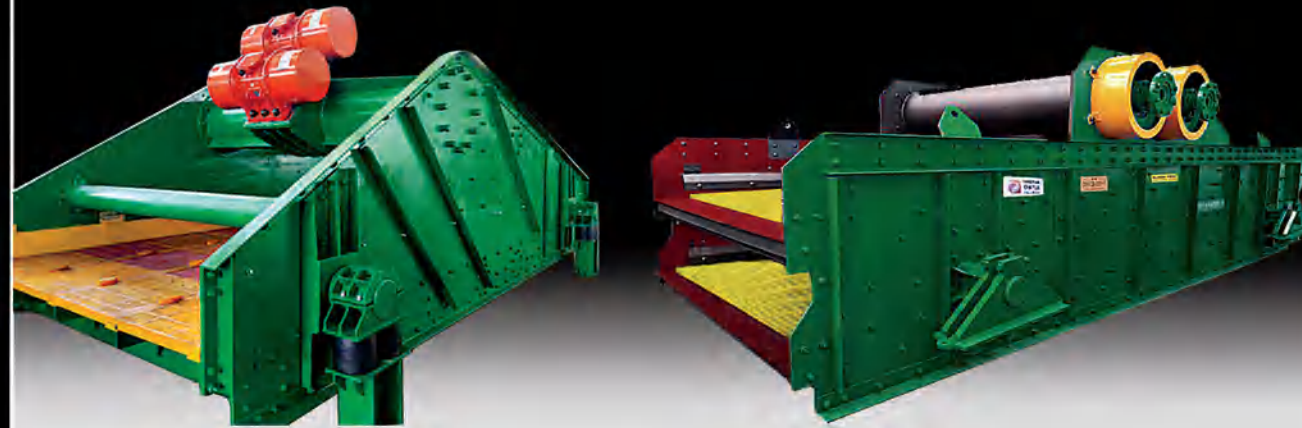
Rubber spring

筛体主体用低噪音橡胶减震弹簧支撑。

The screen main body is supported by low noise rubber damping springs.

# FY-ZKB series Linear Vibrating Screen

FY-ZKB 直线筛



- 侧板、补强板采用数控等离子整体下料；连接件采用高强度铆接螺栓连接，无焊缝设计。
- 所有焊接部件经高温回火处理，去除焊接应力，延长使用寿命。
- 筛下梁表面喷涂耐磨聚氨酯材料。
- 筛体主体用低噪音橡胶减震弹簧支撑。
- 有单层、双层可选
- 可根据实际需要选配，不锈钢筛板、聚氨酯筛板、不锈钢聚氨酯复合筛板。
- 用户根据作业要求选择合适的安装角度，安装角度在 -5°~+5°度范围内可调。
- 聚氨酯筛网开孔率高，使用寿命长，安装方便，具有高效、节能、环保，降低噪音等优点。

The side plates and guard plates are cut by CNC plasma; the connectors are connected by high-strength riveting bolts without welding seam.

The surface of screen beams are sprayed with wear-resistant polyurea material, and annealing heat treatment was carried out to eliminate welding stress, in this way, the using life is improved.

Polyurea are sprayed on the surface of screen under beams' surface.

The screen main body is supported by low noise rubber damping springs.

One deck and two decks are available.

Stainless steel screen panels, polyurethane screen panels and stainless steel&polyurethane compound screen panels are available according to actual application.

Users can choose the appropriate installation angle according to the operation requirements, and the installation angle can be adjusted within the range of +- 5 degrees.

The advantages of polyurethane screen panels are high opening rate, long using life, convenient installation, high efficiency, energy saving and noise reduction.



## FY-ZKB 系列直线筛主要用途

### FY-ZKB Series Linear Vibrating Screen Main Application

FY-ZKB 直线振动筛采用振动电机驱动，结构简单，功耗低，适用于各种矿物的筛分，分级，脱水，等环节。FY-ZKB 系列直线振动筛融合了先进的筛分技术与制造工艺，按照免维护、高可靠性、高振动强度设计，适用于各种严峻恶劣的工况条件，在冶金矿山、煤炭、有色、建材、化工等金属及非金属领域广泛使用。

FY-ZKB Linear Vibrating Screen is driven by vibrating motors, the structure is simple and power consumption is low. It is suitable for screening, grading and dewatering of various minerals.

FY-ZKB Linear Vibrating Screen integrates advanced screening technology and manufacturing process. It is designed according to the idea of maintenance free, high reliability and high vibration intensity. It is suitable for all kinds of severe conditions and widely used in metal and non-metal fields such as metallurgy, mining, coal, nonferrous metals, building materials, chemical industry and so on.



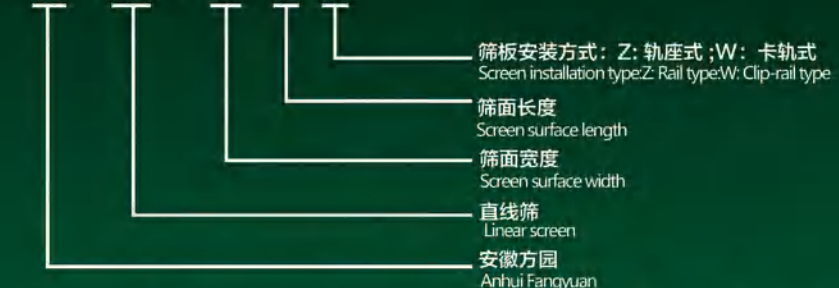
## FY-ZKB 系列直线筛机主要技术参数

### FY-ZKB Series Linear Screen Technical Data

| 型号<br>Model | 层数<br>Deck qty | 筛分面积<br>Sieving Area<br>(m <sup>2</sup> ) | 处理量<br>Handling Capacity<br>(t/h) | 功率<br>Power<br>(kW) | 频率<br>Frequency<br>(Hz) | 双振幅<br>Double Amplitude<br>(mm) | 倾角<br>Sieving Obliquity<br>(°) |
|-------------|----------------|-------------------------------------------|-----------------------------------|---------------------|-------------------------|---------------------------------|--------------------------------|
| FY-ZKB-1548 | 1              | 7.2                                       | 40-60                             | 2x4.5               | 1000                    | 6~8                             | 0°                             |
| FY-ZKB-1848 | 1              | 8.64                                      | 50-70                             | 2x5                 |                         |                                 |                                |
| FY-ZKB-2148 | 1              | 10.1                                      | 60-80                             | 2x6                 |                         |                                 |                                |
| FY-ZKB-2160 | 1              | 12.6                                      | 70-100                            | 2x7                 |                         |                                 |                                |
| FY-ZKB-2448 | 1              | 11.52                                     | 80-120                            | 2x7                 |                         |                                 |                                |
| FY-ZKB-2460 | 1              | 14.4                                      | 100-120                           | 2x7                 |                         |                                 |                                |
| FY-ZKB-3060 | 2              | 18                                        | 120-150                           | 2x18                |                         |                                 |                                |

### FY-ZKB 系列直线振动筛型号说明

FY - ZKB - □ - □ - Z



FANGYUAN (ANHUI) INTELLIGENT MINING EQUIPMENT CO., LTD.



直线振动筛 - 高频脱水筛部分应用现场  
Application of high frequency dewatering screen



**方园承诺为用户提供优质，高效，节能，环保的产品和服务**  
Fangyuan promises to provide clients with high-quality, high-efficient, energy-saving and environmental protection products and services.



**FANGYUAN**  
**安徽方园**  
全球矿业·精选有我

**完善的售后服务**  
PERFECT-AFTER-SERVICE

### 售前

私人定制，核心模型技术  
产品选型方案，现场测绘  
提前物料免费实验方案

Private customization, core model technology for product selection scheme, on-site mapping, free experiment scheme for materials in advance.

### 售中

保证质量，按时交货，国内免费指导安装，调试，相关技术人员操作培训  
定期回访产品使用情况。

Guarantee the quality, deliver the goods on time, guide the installation and debug free of charge in China, train the relevant technicians and visit the use of products regularly.

### 售后

本地化特殊售后服务实施  
“一对一销售”随时解决客户反馈问题，有关产品问题保证48小时内派出最佳现场解决人员

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方园耐磨胶板 FY ANTI-ABRASION RUBBER

**方园(安徽)智能装备有限责任公司**

Fangyuan (Anhui ) Intelligent Mining Equipment Co.,Ltd.

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景翰园翰邦国际广场12层

工厂地址: 中国·安徽·淮北杜集区龙  
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**方园（安徽）智能装备有限责任公司**

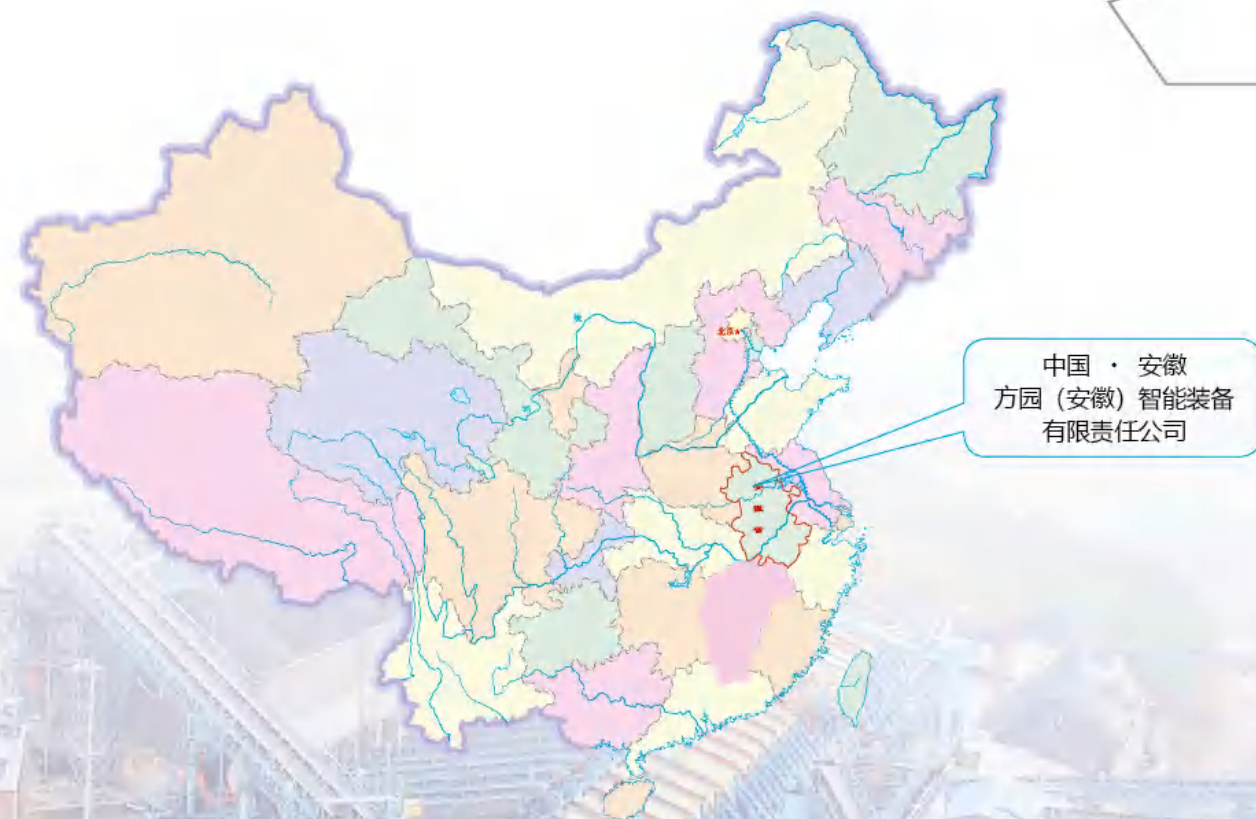
FANGYUAN (ANHUI ) INTELLIGENT MINING EQUIPMENT CO.,LTD.



方园(安徽)智能装备有限责任公司

FANGYUAN (ANHUI) INTELLIGENT MINING EQUIPMENT CO.,LTD.

## 关于方园 → ABOUT FANGYUAN



中国 · 安徽  
方园(安徽)智能装备  
有限责任公司

价值观:诚信, 合力, 创新, 共赢。

Values: Integrity, Cooperation, Innovation, Win-Win.

使命:追求卓越品质, 助力矿业发展。

Mission: Pursue excellent quality and help the development of the mining industry.

愿景:以先进技术为依托, 做矿业筛分领域的引领者。

Vision: Relying on advanced technology, to be the leader in the field of mining screening.

公司产品覆盖金属矿山、非金属矿山、选煤、建材等多个行业, 方园公司成立伊始, 创建了科技研发中心, 组建科研团队。其中与北京航空航天大学合作研发的聚氨酯精细筛网获得两项国家发明专利, 与中国矿业大学、山东新汶集团新巨龙选煤厂联合开展的“降低重选下限粗精煤泥直接回收”的工艺技术研究获得“国家科技成果”奖。

The company's products cover metal mines, non-metal mines, coal preparation, building materials and other industries. At the beginning of its establishment,

AnhuiFangyuan established an enterprise R&D center with complete facilities and a high-level scientific research team. Among them, the polyurethane fine screen developed in cooperation with Beihang University has won two national invention patents, and the process technology research of "reducing the lower limit of gravity and direct recovery of coarse and fine coal slime" jointly carried out with China University of Mining and Technology and Xinjulong Coal Preparation Plant of Shandong Xinwen Group won the "National Scientific and Technological Achievement" Award.



国家专利技术认证

- 2008 年获得高新技术企业证书
- 2020 年工业领域节能环保产业市级优秀企业
- 2011 年荣获淮北市知名产品称号
- 2020 年获得企业信用评价 AAA 级信用企业
- 2013 年获得专精特新中小企业
- 2020 安徽股权托管交易中心专精特新板挂牌
- 2019 年获得市认定企业技术中心证书
- 荣获专利 36 项

- In 2008, obtained the high-tech enterprise certificate
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- In 2020 Anhui Equity Custody Trading Center Specialized Special New Board Listed
- In 2019, awarded the certificate of Municipal Enterprise Technology Center
- Won 36 patents

# 产品简介

## PRODUCT INTRODUCTION



方园（安徽）智能装备有限责任公司的前身是安徽方园塑胶有限责任公司，是专业生产橡胶产品的企业，拥有丰富的橡胶生产经验及解决方案，采用先进的湿法炼胶工艺，天然橡胶的含量达到了 95% 以上，使方园的耐磨橡胶胶板具备弹性好，强度大，抗拉扯耐磨性优越，耐腐蚀的能力强等特点，广泛应用于矿山、石油、化工等多个行业，用于筛机防腐耐磨内衬、旋流器内衬、泵内衬、软管内衬、阀门衬里、油罐衬里、搅拌槽衬里、浓密机衬里、管衬里、滑道衬里、传动带等。为客户带来很好的经济效益，降低维修成本。

Fangyuan (Anhui) Intelligent Mining Equipment Co., Ltd. was formerly Anhui Fangyuan Plastic &Rubber Co., Ltd. It is a professional manufacturer of rubber products with experience and solutions in rubber production. It adopts advanced wet rubber refining technology, and the content of natural rubber reaches more than 95%, so that Fangyuan's wear-resistant rubber sheets have good elasticity, high strength, excellent tensile and wear resistance, strong corrosion resistance, etc. They are widely used in mining, petroleum, chemical and other industries, and are used for anti-corrosion and wear-resistant linings of screen machines, cyclone linings, pump linings, hose linings, valve linings, oil tank linings, mixing tank linings, thickener linings, pipe linings, slide linings, transmission belts, etc. Bring good economic benefits to customers and reduce maintenance costs.



# 技术参数

## TECHNICAL PARAMETERS

方园耐磨橡胶板的标准尺寸是 10m x 1.4m，标准厚度为 2-25mm，尺寸可定制。  
The standard size of Fangyuan wear-resistant rubber sheet is 10m x 1.4m, the standard thickness is 2-25mm, and the size can be customized.

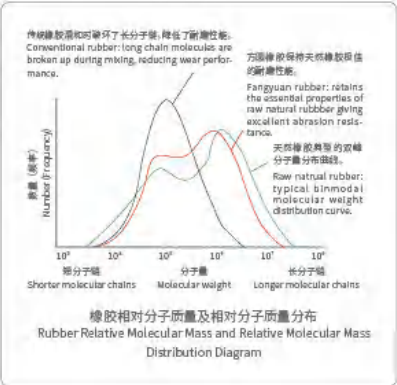
| 项目 Testing Item                 | 标准 Testing Standard | 单位 Unit              | 规格 Actual Specs. |
|---------------------------------|---------------------|----------------------|------------------|
| 硬度 Hardness                     | ISO7619-1:2010      | Shore A              | 35               |
| 拉伸强度 Tensile Strength           | ISO37:2011          | Mpa                  | 23               |
| 断裂伸长率 Elongation at Break       | ISO37:2011          | %                    | 762              |
| 拉伸变形 Tensile Deformation        | ISO37:2011          | %                    | 5                |
| 撕裂强度 Tear Strength              | ISO34-1:2010        | N/mm                 | 67               |
| 回弹性 Resilience                  | ISO4662:2009        | %                    | 81               |
| 相对磨损体积 Relative Volume Abrasion | ISO4649:2010        | mm <sup>3</sup> /40m | 24               |
| 密度 Density                      | ISO2781:2008        | g/cm <sup>3</sup>    | 0.96             |

# 工艺流程

## PROCESS

### 橡胶冷粘工艺 Rubber cold bonding process

配合方园自主研发的高强度专用粘合剂和冷粘工艺，方园耐磨橡胶可以为设备和设施提供更强大的保护。方园耐磨橡胶粘合剂粘接强度高、弹性好、耐冲击、抗振动、耐水、耐酸碱、耐老化，可以使方园橡胶在金属、皮革、塑料、织物、木材、陶瓷等多种材质表面牢牢生根。  
Combined with Fangyuan's independently developed high-strength specialized adhesive and cold bonding process, Fangyuan wear-resistant rubber can provide stronger protection for equipment and facilities. Fangyuan wear-resistant rubber adhesive has high bonding strength, good elasticity, impact resistance, vibration resistance, water resistance, acid and alkali resistance, and aging resistance. It can firmly root Fangyuan rubber on surfaces of various materials such as metal, leather, plastic, fabric, wood, ceramics, etc.



### 湿法炼胶工艺 Wet rubber mixing process

方园耐磨天然橡胶的优越特性取决于先进的湿法炼胶工艺。经过多年努力及经验，方园找到了能与天然胶乳充分混合的橡胶助剂，并将先进的纳米补强技术应用于湿法炼胶工艺。不同于传统干法混炼工艺，方园的湿法炼胶工艺不仅做到了节能、降耗、安全、减排，还解决了传统工艺中无机填料分布不均、局部团聚现象严重的问题，在最大程度上保护了天然橡胶的分子结构，保留了天然橡胶的高弹性、高耐磨性等宝贵特性，赋予了方园耐磨橡胶优异的物理性能和耐磨性能，使耐磨橡胶制品的使用寿命明显延长。  
The superior properties of Fangyuan's wear-resistant natural rubber depend on the advanced wet rubber mixing process. After years of hard work and experience, Fangyuan has found rubber additives that can be fully mixed with natural latex, and applied advanced nano-reinforcement technology to the wet rubber mixing process. Different from the traditional dry mixing process, Fangyuan's wet rubber mixing process not only achieves energy saving, consumption reduction, safety, and emission reduction, but also solves the problems of uneven distribution of inorganic fillers and serious local agglomeration in traditional processes, protects the molecular structure of natural rubber to the greatest extent, retains the valuable properties of natural rubber such as high elasticity and high wear resistance, and gives Fangyuan wear-resistant rubber excellent physical properties and wear resistance, which significantly extends the service life of wear-resistant rubber products.

## 产品优势 →

### PRODUCT ADVANTAGES

得益于先进的湿法炼胶工艺，方圆耐磨天然橡胶的分子成分中含有较大比例的高分子量长链，这赋予其强大的抗拉伸特性和回弹能力，使得天然橡胶成为渣浆环境下最优秀的耐磨材料。方圆耐磨天然橡胶具备物理性能优越、耐磨止损、节能降噪、耐腐蚀、使用周期超长的特点。

Due to the advanced wet rubber refining process, the molecular composition of Fangyuan wear-resistant natural rubber contains a large proportion of high molecular weight long chains, which gives it strong tensile strength and resilience, making natural rubber the best wear-resistant material in slurry environment. Fangyuan wear-resistant natural rubber has the characteristics of superior physical properties, wear resistance, energy saving and noise reduction, corrosion resistance, and ultra-long service life.

#### 物理性能优越 Excellent physical properties

1 方圆耐磨天然橡胶弹性好、强度大、抗拉扯、抗割裂、耐磨性能优越，可以有效地保护设备或设施表面，延长设备或设施的使用寿命。

Fangyuan wear-resistant natural rubber has good elasticity, high strength, and excellent tensile and cut resistance and wear resistance. It can effectively protect the surface of equipment or facilities and extend the service life of equipment or facilities.

#### 超长使用周期 Ultra-long service life

2 方圆耐磨橡胶的优异耐磨性能使其拥有超长的使用周期，是普通非天然橡胶或其他材质衬里的四倍，让用户更换橡胶衬里的频率大幅度降低，一方面大大降低了重复采购的成本，另一方面减少停机维护次数、缩减停机维护时间，大大提高了用户收益。

The excellent wear resistance of Fangyuan wear-resistant rubber enables it to have an ultra-long service life, which is four times that of ordinary non-natural rubber or other material linings. It allows users to significantly reduce the frequency of replacing rubber linings, which greatly reduces the cost of repeated purchases on the one hand, and reduces the number of downtime maintenance and the time of downtime maintenance on the other hand, greatly improving user benefits.

#### 耐腐蚀能力强 Strong corrosion resistance

3 方圆耐磨橡胶有极强的耐腐蚀能力，可以广泛适用于矿山、化工、石油等多种行业的腐蚀性环境。Fangyuan wear-resistant rubber has extremely strong corrosion resistance and can be widely used in corrosive environments in various industries such as mining, chemical, and petroleum.

#### 耐磨止损节能降噪 Wear-resistant, loss-stopping, energy-saving and noise-reducing

4 优良的耐磨性能和弹性不仅能够降低渣浆环境下颗粒对橡胶的磨损，还能够节能降噪。在渣浆环境下，当磨蚀性颗粒撞击铸石、复合陶瓷、合金等刚性表面时，动能转化为冲击力，产生巨大的摩擦力不仅对刚性表面造成创痕，还会产生噪音；而当磨蚀性颗粒撞击弹性橡胶表面，橡胶受挤压变形，把大部分动能返还颗粒，从而避免了磨损。Excellent wear resistance and elasticity can not only reduce the wear of particles on rubber in slurry environment, but also save energy and reduce noise. In slurry environment, when abrasive particles hit rigid surfaces such as cast stone, composite ceramics, alloys, etc., the kinetic energy is converted into impact force, generating huge friction force that not only causes scars on the rigid surface, but also generates noise; when abrasive particles hit the elastic rubber surface, the rubber is squeezed and deformed, returning most of the kinetic energy to the particles, thus avoiding wear.

#### 方圆橡胶衬里特征 Fangyuan Rubber Lining Characteristic

- |                        |                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------|
| 1. 杰出的湿式耐磨特性           | 1. Outstanding wet abrasion resistance.                                                          |
| 2. 极好的弹性               | 2. Excellent elasticity.                                                                         |
| 3. 显著的抗切割、撕扯特性         | 3. Significant resistance to cutting and tearing.                                                |
| 4. 永久残余变形小             | 4. Significant resistance to cutting and tearing.                                                |
| 5. 耐多种化学物质腐蚀布          | 5. Small permanent residual deformation Resistant to corrosion from various chemical substances. |
| 6. 电阻抗性能好              | 6. Good electrical impedance performance                                                         |
| 7. 减震降噪、消声特性           | 7. Shock absorption, noise reduction, and silencing characteristics                              |
| 8. 柔韧性好（即使在低温），便于加工和安装 | 8. Good flexibility (even at low temperatures), easy to process and install                      |

方圆公司从马来西亚引进的技术，设计制作橡胶衬层，密封件和定型产品，可针对用户的不同用途，提供相应的橡胶材料。

方圆橡胶的卓越性能已在全国各地实际应用中得到证明。该产品与金属或其它耐磨材料相比，大大减少了磨损造成的计划外维护。

Fangyuan can design and tailor make rubber linings, seals and moduled products with imported technology from Malaysia to meet the requirements of various customers. Excellent properties of Fangyuan rubber has been proved by application all around China. Compared with other wear resistant materials, it can reduce frizzle charges as result of wear greatly.



# 方园抗臭氧的纯天然橡胶

Fangyuan anti-ozone natural rubber

- 耐候性和抗臭氧性强
- 弹性好
- 极好的耐滑动磨蚀特性
- 抗切、抗扯强度高
- 较低的永久变形和极好的柔软性
- 良好的减震降噪性
- 电阻抗性好
- Good anti-climate and anti-ozone property.
- Good elasticity.
- Excellent anti abresiveness.
- High shear and teat strength.
- Lower permanent deformation and excellent flexibility.
- High shock-absorption capability.
- Good electrical resistant.



## 方园产品的应用 Application of Fangyuan products

广泛用于处理各种磨蚀性物料的衬层,定制的结构件或铸模件,使用性能可靠。还可用于降低噪音,改善工作环境,减轻劳动者疲劳。  
Widely used for handling corrosive materials with du-rable properties also used for reducing noise and improving working conditions.

# 方园橡胶衬里 Fangyuan rubber linings

根据工程实际,方园公司提供最佳的施工方法,可在方园公司或派人到现场进行橡胶衬里施工。此外,可提供高质量的粘合剂和耐腐衬板,由用户自己包胶衬里。  
According to the practical situation, Fangyuan company can provide best processing method, to rubberize the linings can be finished in our company or in the field, Fangyuan can also provide the customers with good quality adhesive and wear-resistant linings, then the customers will finish the rubberizing process by themselves.

## 皮带运输机配件 Strap parts for conveyor

方园耐磨橡胶备受称赞的应用是皮带运输机滚筒防护衬套,防止打滑、物料粘结和皮带跑偏,延长皮带寿命。其它应用包括耐磨弹性橡胶刮屑板、托辊耐磨护套受料斗密封挡边和皮带运输机受料点防冲砸装置。  
Fang yuan wear-resistant rubber mainly used for manufacture protective linings for conveyor rollers to avoid slip-ping. Fangyuan rubber can also be used for producing wear-resistant rubber scrapper roller,sleeve,baffle and anti shock units.

## 旋流器 Cyclone

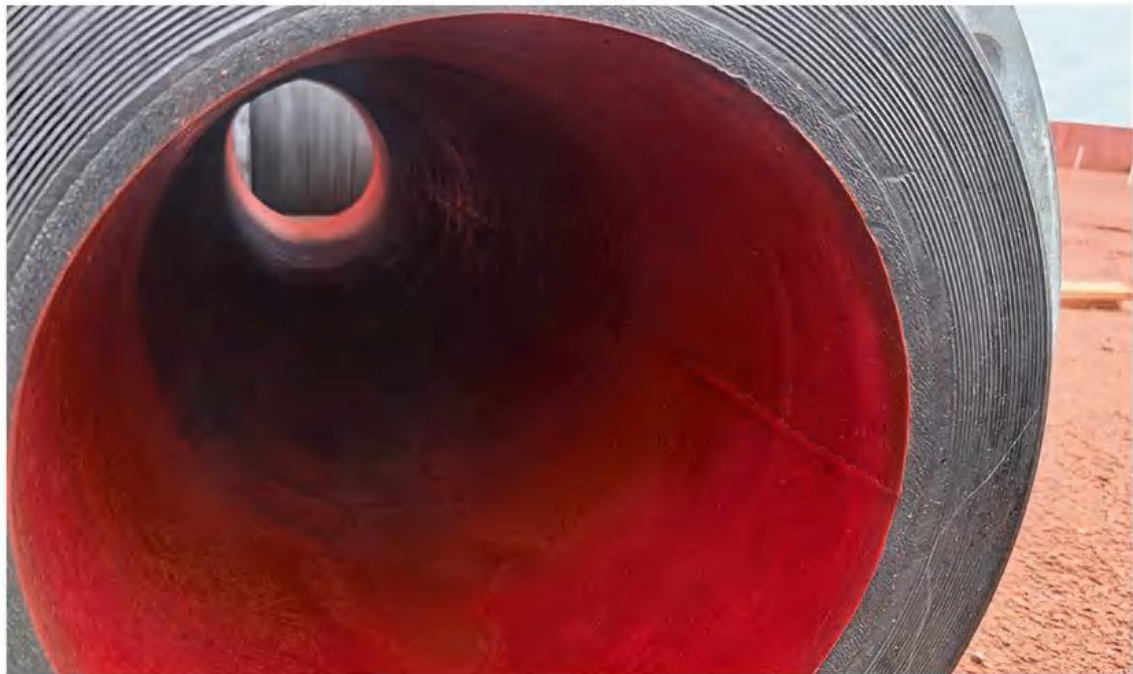
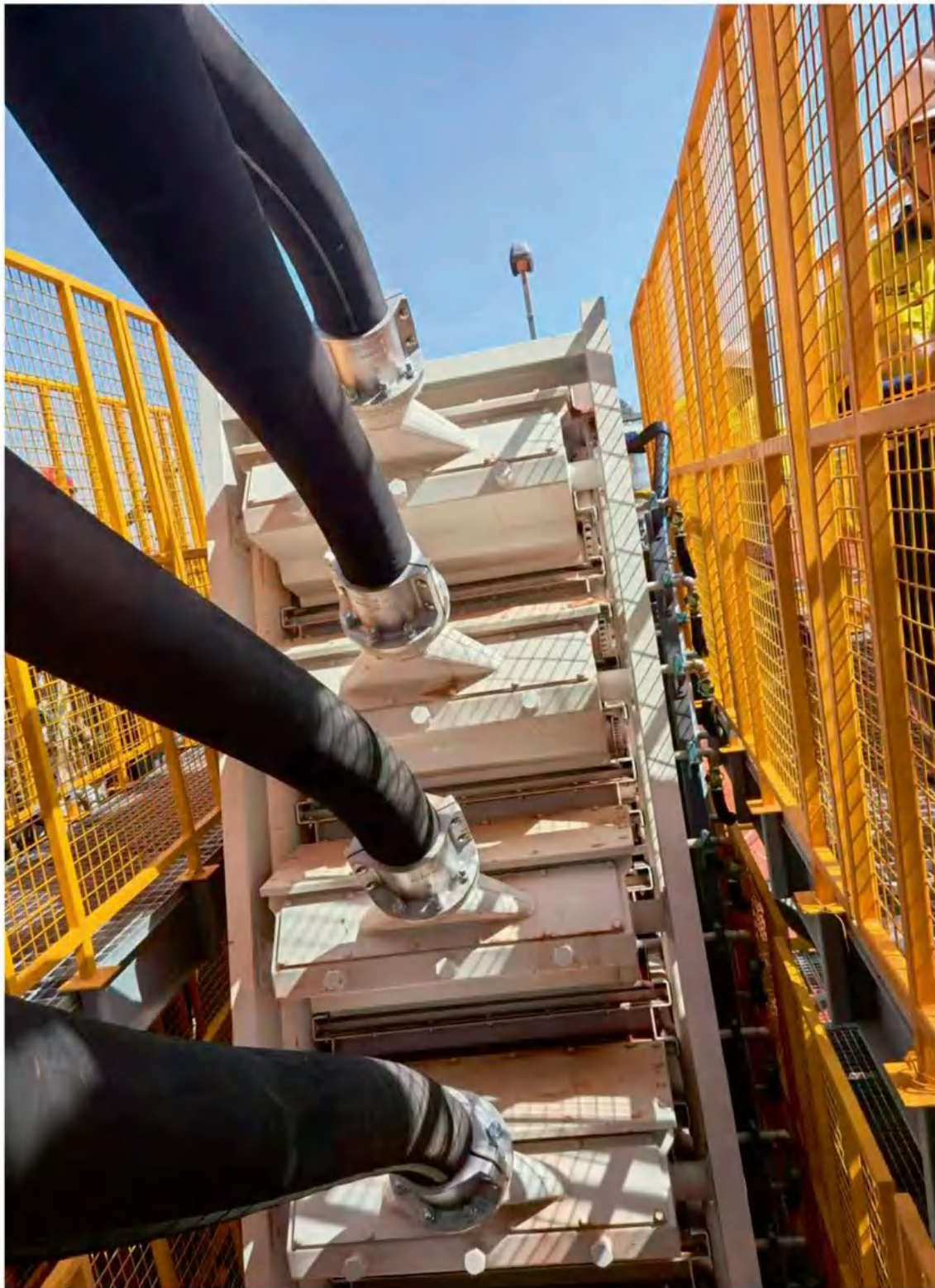


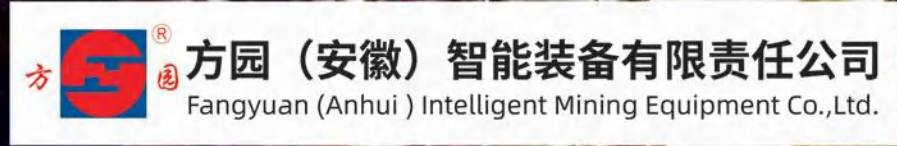
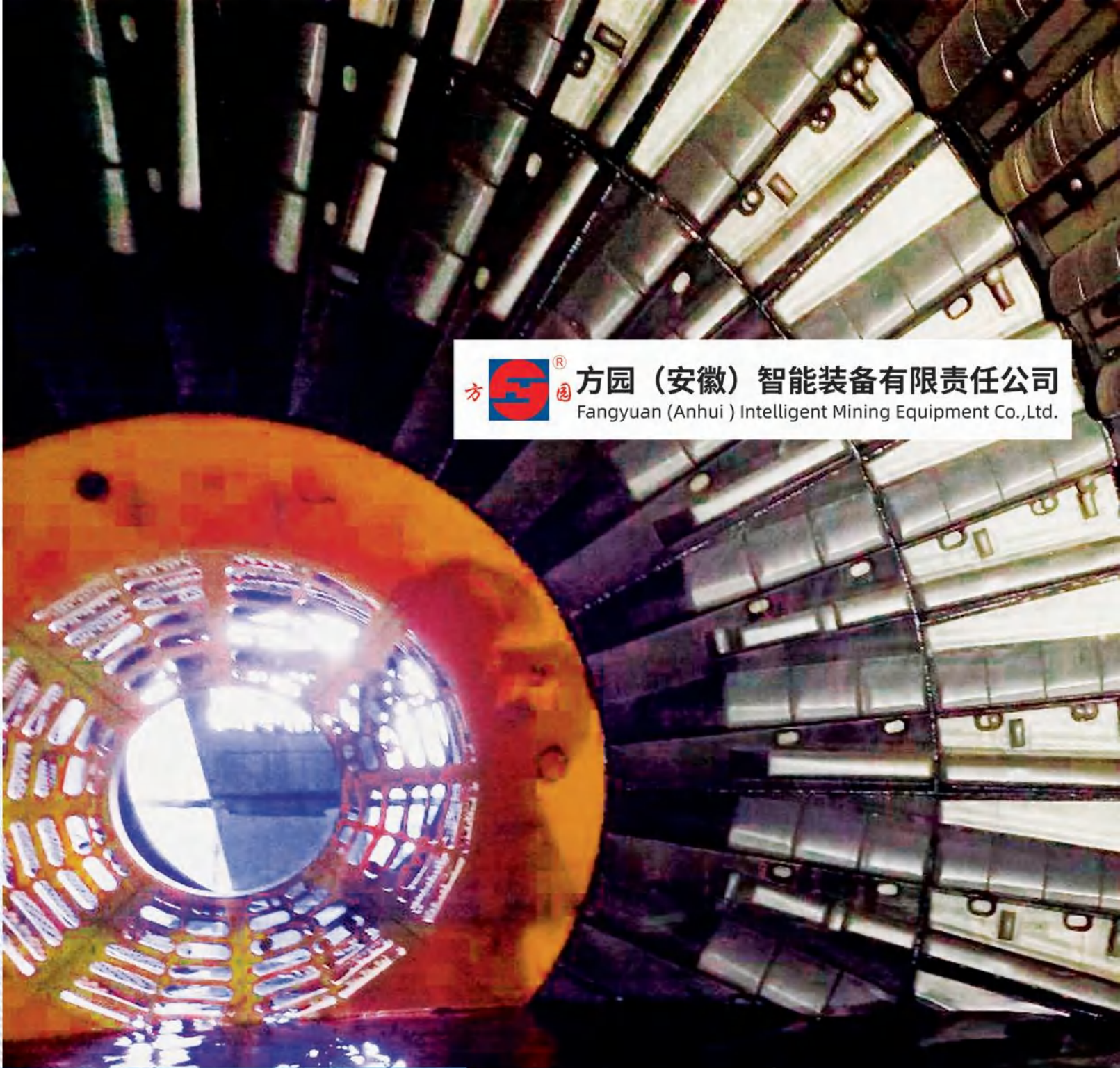
大型旋流器全部采用耐橡胶内衬,集料斗贴柔性胶板。彻底解决耐磨问题。  
All large cyclones are lined with durable rubber, and the collection hopper is covered with flexible rubber sheets. Thoroughly solve the problem of wear resistance.

## 阀门 Valve

方园耐磨衬胶阀特别适于处理磨(腐)蚀性的液体和固体,具有手动气动和液压操作方式。并提供适于各种规格阀体的耐磨橡胶套阀。  
Fangyuan wear resistant rubber lined valve is ideal for handling corrosive or abrasive liquid and solid . The valve can be manual, pneumatic or hydraulic. Fangyuan can also supply wear resistant rubber valve for various value body.

产品应用 →→  
APPLICATION





方园（安徽）智能装备有限责任公司  
Fangyuan (Anhui ) Intelligent Mining Equipment Co.,Ltd.  
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邮箱：ahfy@ahfangyuan.com

## 企业概况

公司产品覆盖金属矿山、非金属矿山、选煤、建材等多个行业。方园公司成立伊始，创建了科技研发中心，组建科研团队。其中与北京航空航天大学合作研发的聚氨酯精细筛网获得两项国家发明专利，与中国矿业大学、山东新汶集团新巨龙选煤厂联合开展的“降低重选下限粗精煤泥直接回收”的工艺技术研究获得国家科技成果奖。

### COMPANY PROFILE

The company's products cover metal mines, non-metal mines, coal preparation, building materials and other industries. The company set up its own scientific research team and owned a R&D center when it was established originally. Among the products, polyurethane fine screen developed with Beihang University has won two national invention patents, and the technology of "reducing the lower limit of gravity and direct recovery of coarse and fine coal slime" jointly carried out with China University of Mining and Technology and Xingjulong Coal Preparation Plant of Shandong Xinwen Group won the "National Scientific and Technological Achievement" Award.

# 方园智能装备

FANGYUAN MINING

**关于方圆** →  
ABOUT FANGYUAN

- 2008年获得高新技术企业证书
  - 2011年荣获淮北市知名产品称号
  - 2013年获得专精特新中小企业
  - 2019年获得市认定企业技术中心证书
  - 2020年工业领域节能环保产业市级优秀企业
  - 2020年获得企业信用评价AAA级信用企业
  - 2020安徽股权托管交易中心专精特新板挂牌
  - 荣获专利36项
- In 2008, obtained High-tech Enterprise Certificate
  - In 2020, won Excellent Enterprise at Municipal level in the Energy Conservation and Environmental Protection field in the Industry
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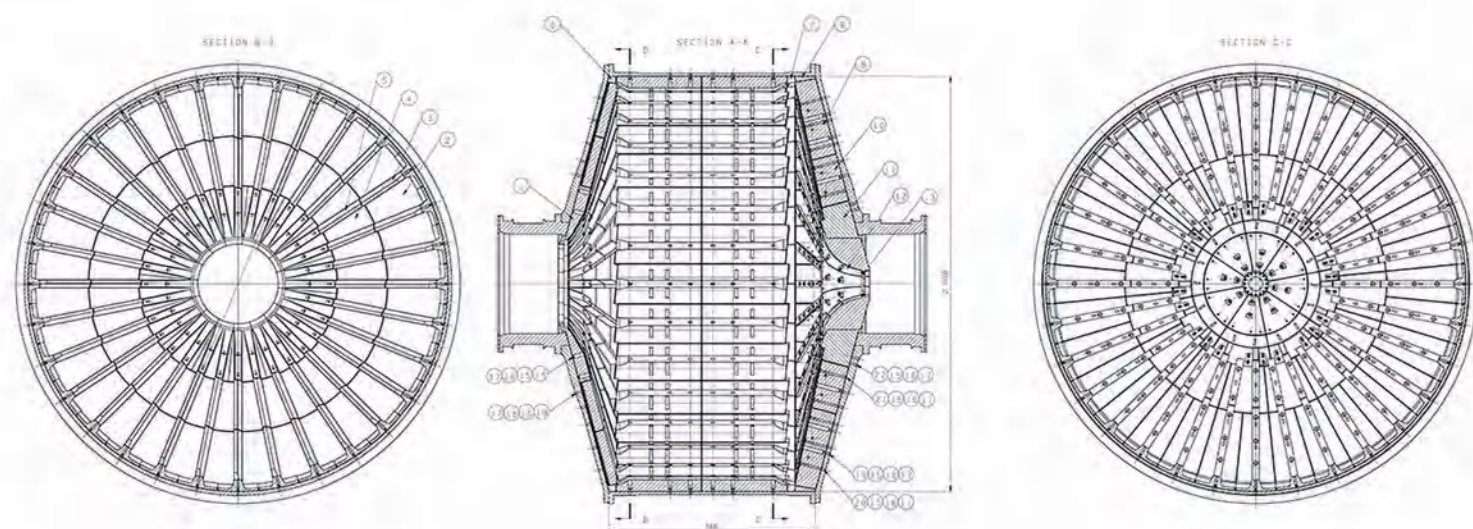


国家专利技术认证

National Patent Technology Certification



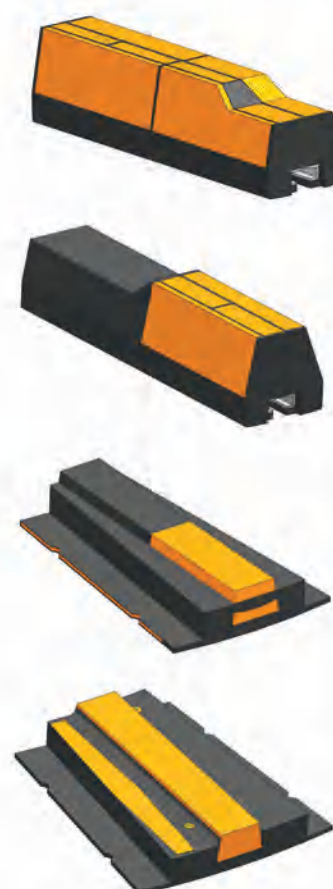
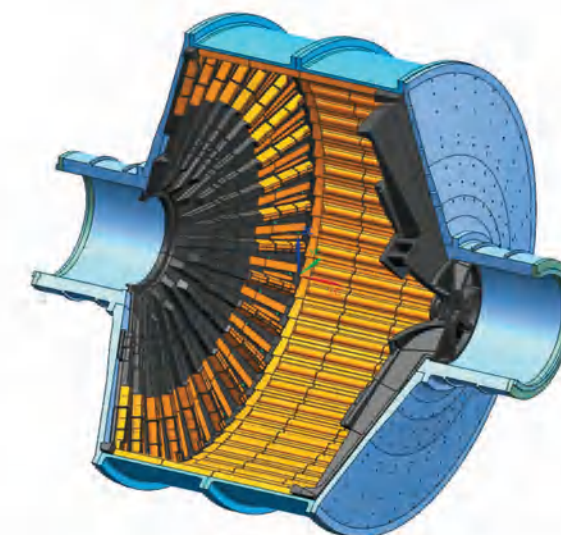
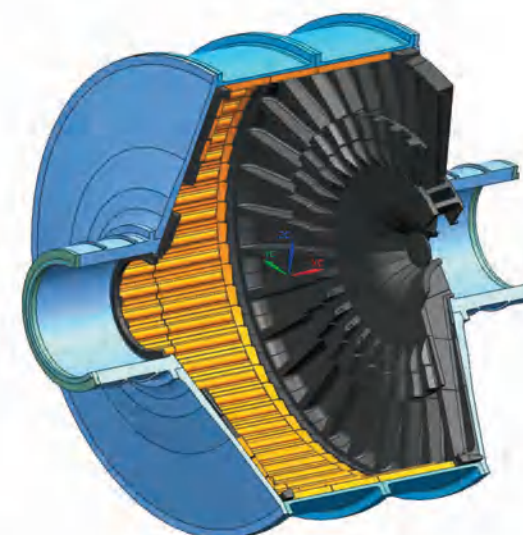
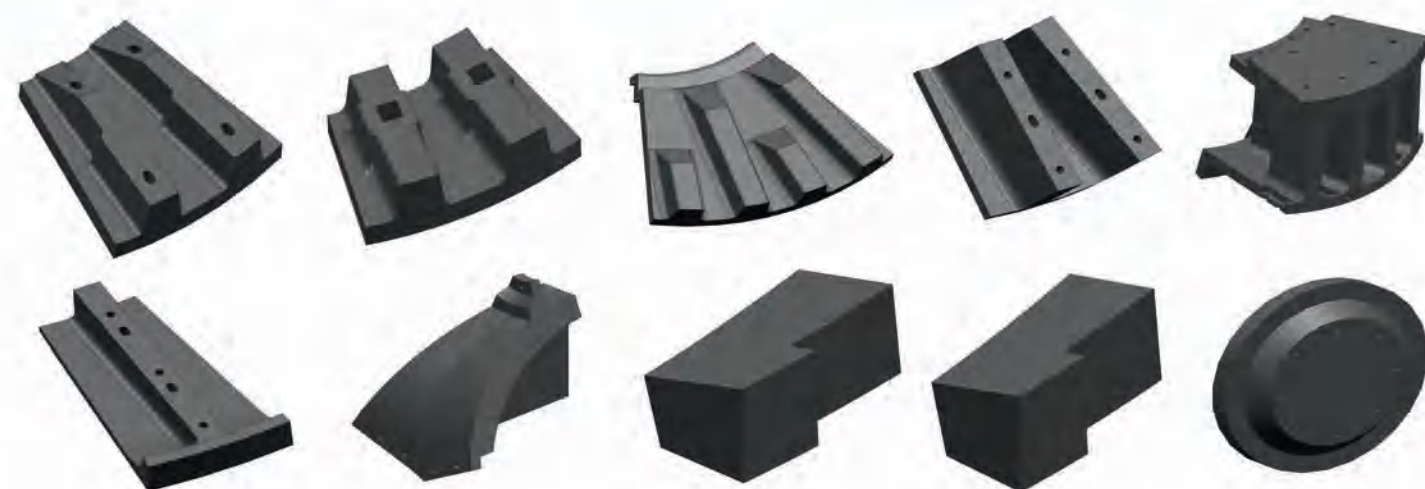
# 产品设计 → PRODUCT DESIGN



方园提供成套的  
磨机橡胶衬里和钢胶复合衬里  
为设备的运营提供完整的解决方案



Fangyuan offers a full range  
of Rubber Mill Liners,  
and Poly-Met Mill Liners  
A complete solution for  
your operation



研磨业务需要依靠当今先进的生产设备 and 专业工艺知识，  
作为磨机衬里生产和服务的完整供应商，  
我们提供优化的磨机衬里解决方案，  
以适应所处理的多种物料和工况条件。

我们的方案包括定制和现有的已被证明有效的方案，  
高质量的衬板为你的设备提供所需的保护，  
能够日复一日、一吨接一吨地高效运转。

Grinding Business needs to be able to rely on productive  
operation of mill liners, built on  
today' s advanced equipment and expert process know-how.  
As a complete supplier of mill liner products and service,  
we offer optimized mill liner solutions to fit various  
materials or applications.

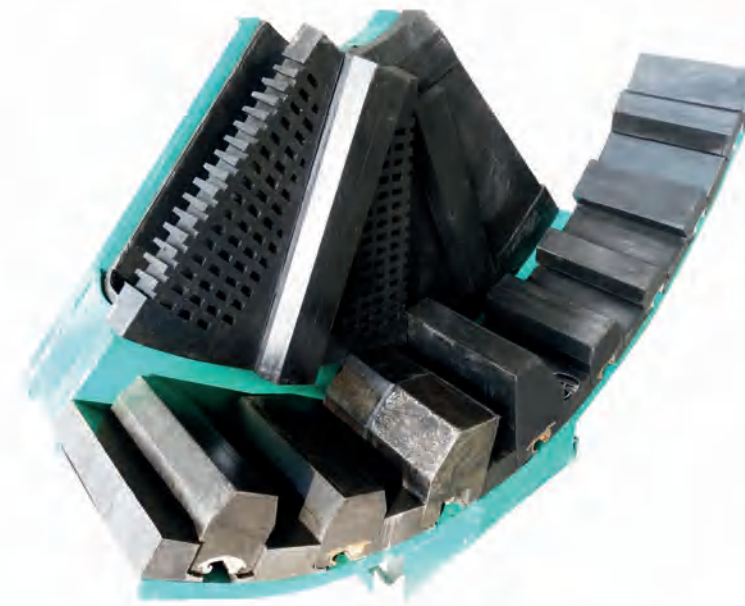
Our solutions includes customized and current solutions,  
our range of durable, high-quality liners gives your  
equipment the wear protection, it needs to continue  
operating at peak efficiently, day after day, tonne after tonne.

← 设计理念  
DESIGN CONCEPT



## 方园磨机衬里的优势

Advantages of Fangyuan Rubber and Poly-Met Mill Liners



Rubber liners

橡胶衬板



Metal liners

金属衬板



## 方园生产半自磨机的滚筒筛网

Fangyuan also offers Trommel Screens for SAG Mills

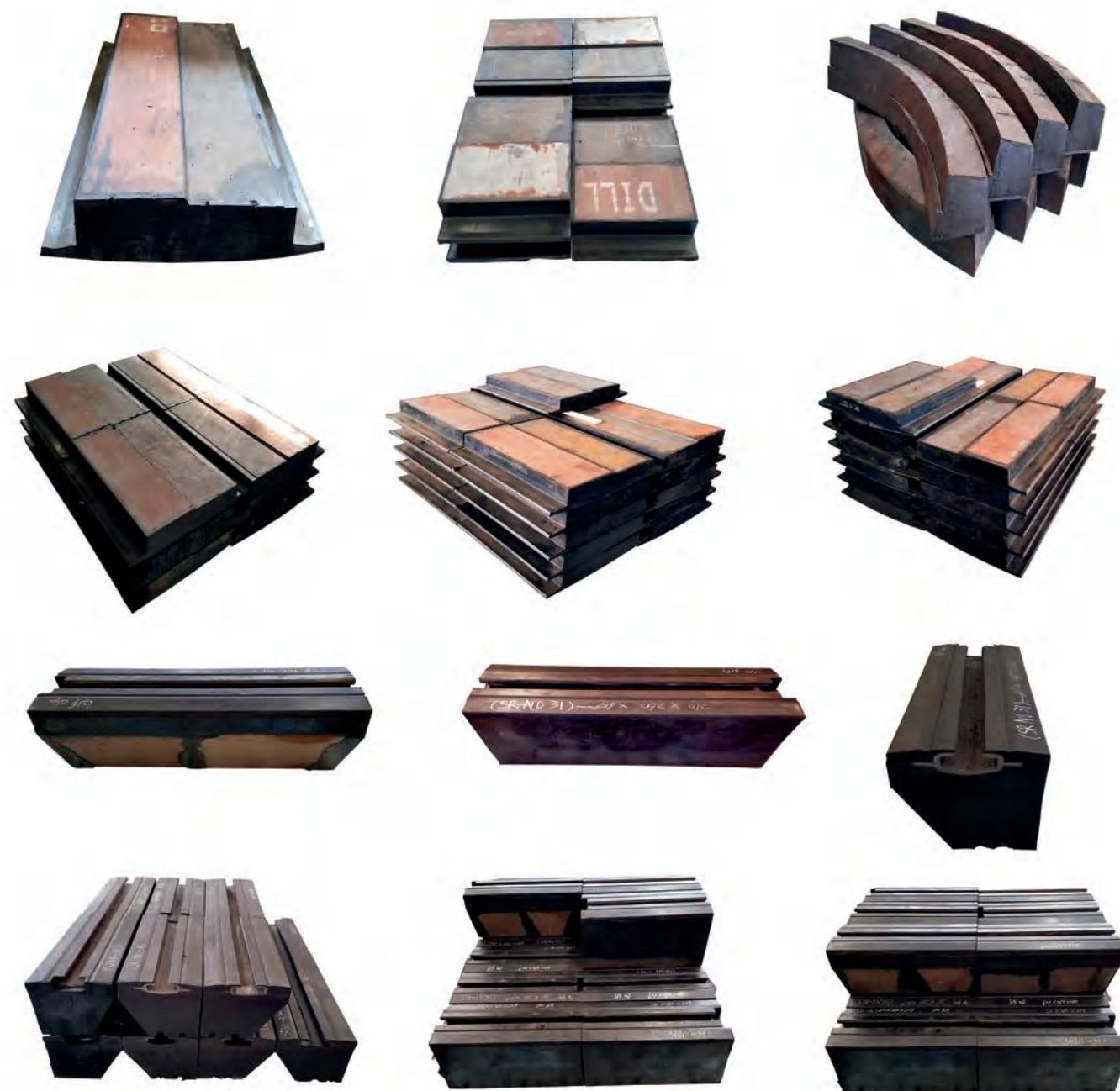
- |                                                                       |                     |
|-----------------------------------------------------------------------|---------------------|
| Compared to metal liners plates, weight is reduced by up to 75%.      | ⬇️ 与金属衬板相比，减少重量达75% |
| High wear resistance and impact resistance, excellent tear resistance | ⚡️ 高耐磨、抗冲击和优异的抗撕裂性能 |
| Increasing loading capacity.                                          | 🚚 增加装载量             |
| Improving sealing performance.                                        | ⬆️ 改进密封性能           |
| Faster and safer installation                                         | ⌚️ 安装更快、更安全         |
| Reducing noise by up to 50%                                           | 🔊 减少噪音达50%          |
| Lower cost per ton.                                                   | ⬇️ 每吨成本更低           |
| Excellent chemical and acid-resistance                                | ☢️ 优异的耐化学和耐酸性能      |



## 方园磨机衬里用于

Applications of Fangyuan Mill Liners

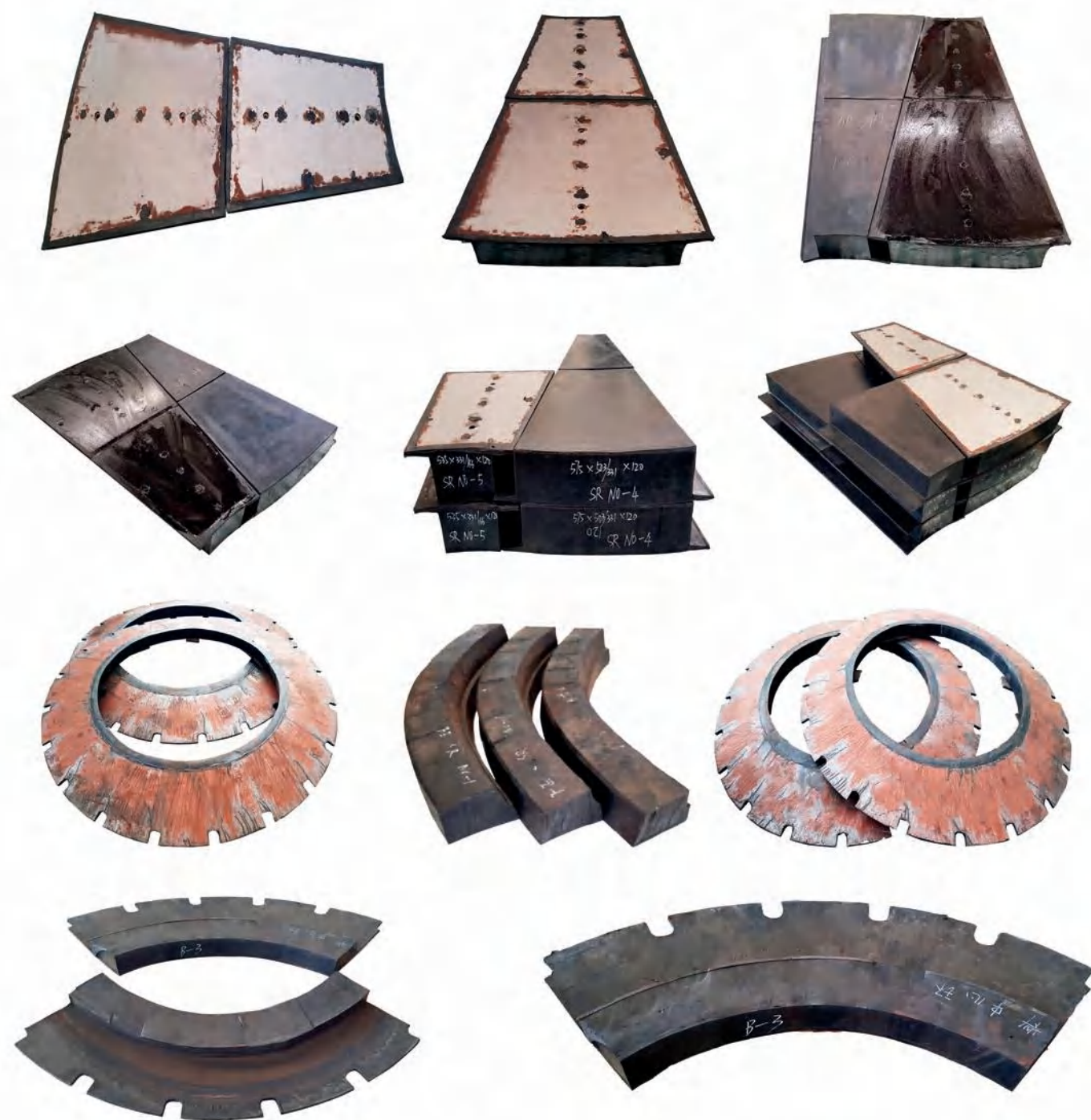
- 自磨机AG Mills
- 半自磨机SAG Mills
- 一段和二段球磨机 Primary & Secondary Ball Mills
- 再磨机Regrind Mills
- 石灰石磨机Lime Mills
- 水泥磨机Cement Mills
- 洗砂机 Scrubbers



为加纳黄金客户生产的球磨机复合衬板



Composite ( Steel+Rubber)  
liners designed and manufactured  
for Ghana Gold Mines



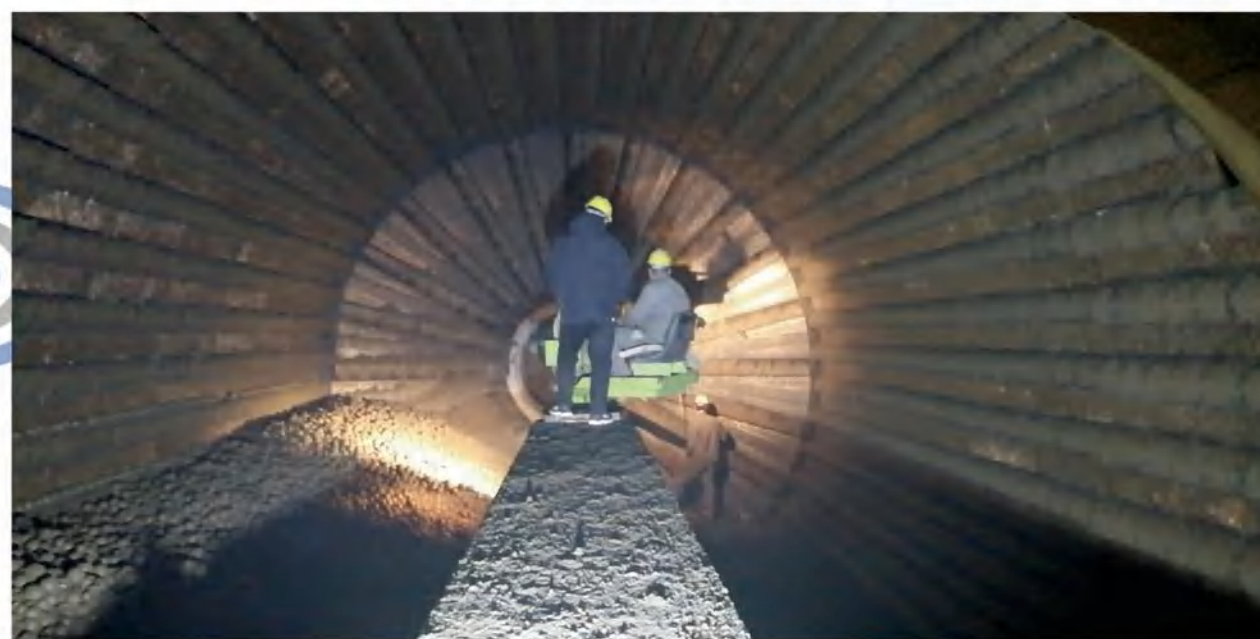
为加纳黄金客户生产的球磨机复合衬板  
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## 全球业务分布范围 Global business distribution



## 应用现场 → APPLICATION



完善的售后服务  
PERFECT-AFTER-SERVICE

### 售前

根据客户提供的磨机参数、  
工况条件和现场测绘，  
进行设计，提供研磨方案

Design and provide grinding  
plans based on provided mill  
parameters, operating  
conditions, and on-site  
surveying.

### 售中

保证质量，按时交货，国  
内免费指导安装，调试，  
相关技术人员操作培训  
定期回访产品使用情况

Guarantee the quality, deli-  
ver the goods on time, guide  
the installation and debug  
free of charge in China, tra-  
in the relevant technicians  
and visit the use of products  
regularly.

### 售后

本地化特殊售后服务实施  
“一对一销售”随时解决  
客户反馈问题，有关产  
品问题保证48小时内派出最  
佳现场解决人员

Localize special services, imple-  
ment one-to-one sales, solve  
client's feedback problems at  
any time, and ensure to dispatch  
the best on-site solution pers-  
onnel within 48hours for rele-  
vant product problems.