德国克莱伯格高耐磨橡胶技术

Technology From Germany Kraiburg

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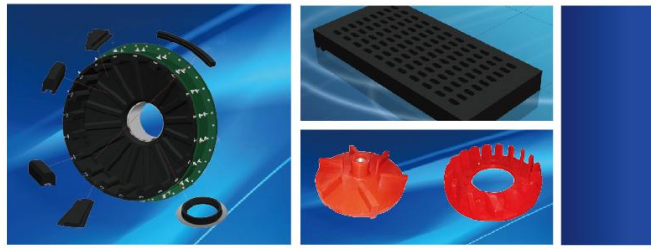
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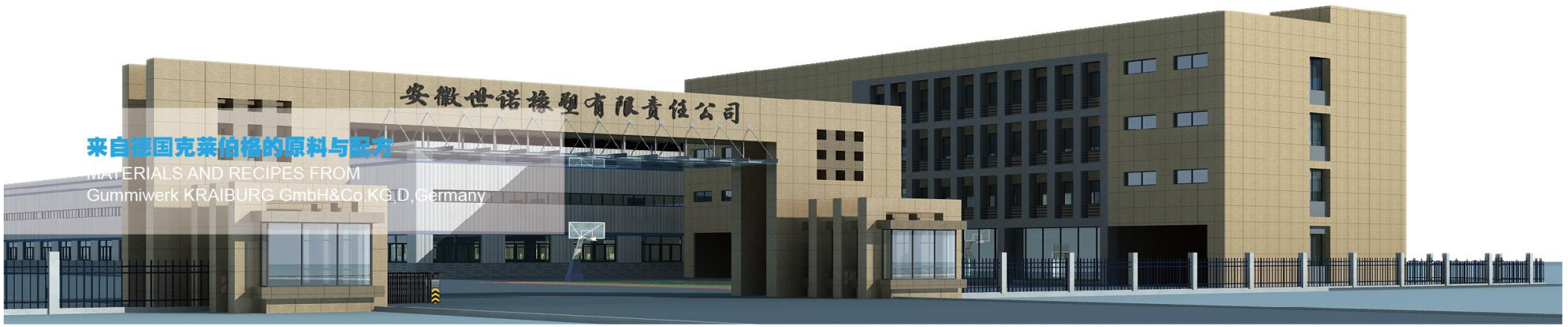
安徽世诺橡塑有限责任公司

AHHUI SINOW RUBBER PRODUCTS CO.,LTD

丨质量第一 丨用户至上 丨诚信守约丨

QUALITY FIRST , CUSTOMER FIRST , GOOD FAITH

中国·安徽



来自德国克莱伯格的原料与配方

MATERIALS AND RECIPES FROM
Gummiwerk KRAIBURG GmbH&Co.KG,D,Germany

安徽世诺橡塑有限责任公司成立于2011年元月，注册资金5000万元，位于淮北市朔里工业园，距G3京台高速烈山出口10公里、G3连霍高速丁里出口1公里、徐州机场60公里，交通便利。

世诺公司是一家集科研、开发、生产、贸易于一体的高新技术企业，是德国Kraiburg橡胶公司在中国的唯一合作商，生产原料、配方、工艺技术来源于德国Kraiburg橡胶公司，产品质量国内领先，国际一流。公司拥有先进的橡胶、聚氨酯产品生产技术和检验设备以及全球连通的技术交流平台，是设计、生产耐磨橡胶衬板和聚氨酯产品的现代化专业厂家。

公司在消化吸收引进德国Kraiburg公司专业技术的基础上，主要生产销售高耐磨橡胶衬板、钢胶复合衬板、漏斗衬板、高耐磨橡胶筛板（网）和浇注高性能聚氨酯弹性体、衬板、筛网。产品具有抗冲击、耐腐蚀、重量轻、使用寿命长、安装方便；运行节能、环保、安全、高效等特点，适用于各种球磨机、棒磨机、自磨机、润磨机、（热）电厂脱硫磨机、水泥磨机、陶瓷磨机、振动筛等矿山工程机械。在100多家黑色金属矿山、有色金属矿山、化工矿山和黄金矿选厂、冶炼厂、有色加工厂以及湿法水泥厂脱硫、陶瓷、化肥等企业中得到广泛应用，获得了显著的经济效益和社会效益，深受用户信赖。

公司拥有全套磨矿机用耐磨橡胶衬板生产线、八条橡胶制品生产线、六条聚氨酯弹性浇注生产线，生产设备、检验设备齐全，是国内较大的耐磨橡胶衬板、筛网；聚氨酯衬板、筛网生产基地。

公司云集国内化工行业大批优秀人才，多名高级工程师曾赴德国、法国、瑞典、韩国学习、交流，有一支科研人才团队，产品技术领先、工艺成熟、质量可靠。公司热忱欢迎中外贵商来人来函洽谈业务、共创美好明天！

Anhui sinow Rubber Products Co.,LTD(hereinafter referred as "the Company")was established in anuary,2011with the registered capital of 50million yuan in RMB. The Company is located in the Industrial park of Huaibei City , 10kilometers away from the Exit of Beijing-Taiwan Express highway(name G3 Highway),away from the Exit of lian Yungang-Khorgas Express highway(namely G30 Highway),and60 kilometers away from Xuzhou Airport. The transportation is easy to use.

The company is a high-tech enterprise integrating with the scientific research,products development,process and trade,the only parther of Germany Kraiburg company in China. The raw materials,formula,process technology the Company use to produce the wear rubber goods are poluurethane products technology and inspection equipment and technical exchange platform of global connectivity.

The Company is specialized in designing and producing the wear-resistant rubber and polyurethane linings etc.

The Company manufactures and sells highly Wear-resisting Rubber linings, Steel and Rubber combined linings, Funnel linings, highly digestion and absorption of Germany Kelleburg's technology.

The Company's product has the advantages of impact, wear and corrosion resistance, light weight ,long service life, and easy installation as well as energy saving, environmental protection, safety, high efficiency etc, applicable to all kinds of Ball Mills, Grindding Machine, Embellish mills, Desulfurized Mill of Power Plsnt, Cement Grinding Mill, Vibratng Screen Machingry etc. The Company's products are widely used in more than 100 ferrous metal mines, nonferrous metal mines, chemical mining and gold ore dressing plant, smelter, non-ferrous metal processing plant and the wet cement desulfurization plant, ceramics, fertilizer enterises, and have won remarkable economic and social benefits, deeply trusted by users.

The Company owns complete set of wear-resistant rubber lining production lines for the grinding machines, 8 rubber products production lines, 6polyurethane (PU) elastomer pounng production lines. Company production and testing equipment are well equipped, and has become the larger production base of wear-resisting rubber linings and screen cloths, and Polyurethane linings and screen cloths etc.

The Company gathered large quantities of outstanding talented people from the domestic chemical industry, and many senior engineers had been sent to Germany, France, Sweden, South Korea for further study, The company has a scientific research team, and is advanced in technology, mature in process and reliable in quality. The company welcome the domestic and foreign businessmen come over to the factory for negotiating business.





安徽世诺橡塑有限公司董事长刘云新先生曾应邀参观德国克莱伯格公司，并于公司门口拍照留念。
Mr Liu Yunxin,President of Anhui Sinow Rubber Products Co.,Ltd visited KRAIBURG Gmbh&Co.KG,D,Germany,and took photos in front of Headquarters of KRAIBURG.See

精工精品 质量取胜
KELLEBURG

我们的独特优势，帮助提升您的工厂的竞争能力:
Our unique advantages help you improve your competitiveness:

一、矿山耐磨橡胶 世界级先进水平
Wear Resistant Rubber for mining use Leading the world

二、不断开发先进的测试平台和方法
Continuously develop advanced test platforms and methods.

三、丰富的行业应用经验，专有制辊设备和技术
Rich industrial application experience,and special roller equipment and technology.

四、工业辊系统专家（矿山耐磨橡胶高端设计）
Specialized in Industrial roller system (Technical design in wear resistant rubber parts).

五、快速服务和交货及时
Quick service. and prompt delivery.

六、各种规格原材料库存齐备，充分满足制造和服务需求
All kinds of raw materials inventory and fully meets with customer requirements

七、完备的数据库系统保存有科雷伯格工业辊公司制造和修复过的所有工业辊产品相关技术资料
A complete database system holds technical data on all industrial rollers manufactured and repaired by kelleburg

八、全球化的公司，无论你在哪里都能方便的享受到我们的服务
You can easily enjoy our services wherever you are

混炼胶德国造---来自德国克莱伯格的原料与技术
Rubber compounds made in Germany - raw materials and technology are from Kraiburg, Germany

检测设备
Inspection Equipment







拉力试验机
Tensile Testing Machine



硫化仪
Vulcanizing Apparatus



老化试验箱
Aging Test Chamber



橡胶冲击弹性试验机
Rubber shock elasticity tester



克利夫兰开口杯法闪点
和燃点试验器
Cleveland Open Cup Flash Point
And Ignition Tester Translation Method



磨耗试验机
Abrasion Testing Machine



橡胶硬度计
Rubber Hardness Tester



炼胶机
Rubber Mixing Machine



表面绝缘电阻测试仪
Surface Insulation Resistance Tester



实验室硫化机
Vulcanizing Machine For Laboratory



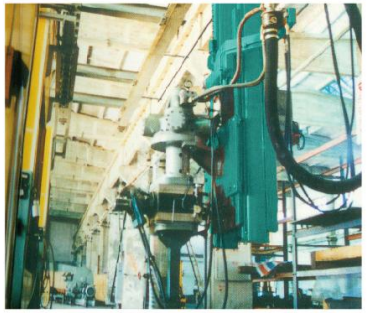
实验室用捏炼机
Kneading Machine For Laboratory

生产设备
Production equipment











合金钢橡胶复合衬板系列
Poly-Met (Rubber Metal Composite) Liners

我公司针对大型半自磨金属衬板重量大，造成的能耗大，拆装困难以及衬板间断性开裂，及大型衬板螺栓预紧力不足，导致漏浆停机，磨机过磨等问题，经过与德国KELLEBURG橡胶公司的大力合作，共同研发了新型复合衬板。

该产品主要用于一段工矿的溢流型磨机、格栅型磨机、多仓型磨机的头仓，大型半自磨机、棒磨机。能有效对抗一段粗磨钢球直径大、给料大的工矿条件带来的衬板使用寿命低，球耗大，安装困难等问题，适用于目前矿山大多数磨矿设备上。

性能特点：该产品主要包括筒体复合提升条。筒体复合衬板、端部复合提升条、端部复合衬板、矿浆提升器、格子板等组成，采用高耐磨橡胶与超硬度耐磨合金、瑞典HARDOX耐磨钢板高温高压复合压制而成。具有超强抗冲击、高耐磨使用寿命长、安装时间短、节省电耗、降低噪音等特点。

Sinow has researched and developed this new Poly-Met liners with Germany Kraiburg due to the difficulty in dis-assembly and assembly large SAG mill metal liners; leakage of slurry and excessive grinding of mills caused by intermittent cracking of liners, and insufficient pre-tightening force of large liner bolts.

The Poly-Met liner is mainly used in overflow grinding mills, grate mills, head chamber of multi-chamber mills, large semi-autogenous mills and rod mills etc. This liner can effectively solve the problems of low liner's service life, large ball consumption,and difficult installation caused by steel ball with large diameter and large feeding conditions in the primary coarse grinding stage.

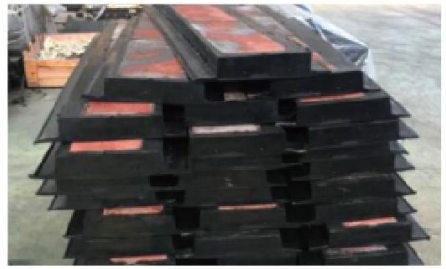
The Poly-Met liner includes Poly-Met shell plates and lifter bars; feed and discharge head end plates, lifter bars, pulp lifters and grate plates, The Poly-Met liner is made of highly wear-resistant rubber and alloyed steel such as the highly wear Sweden HARDOX steel plate under high temperature and pressure.





部分产品照片
Pictures of Poly–Met (Rubber Metal Composite) Liners





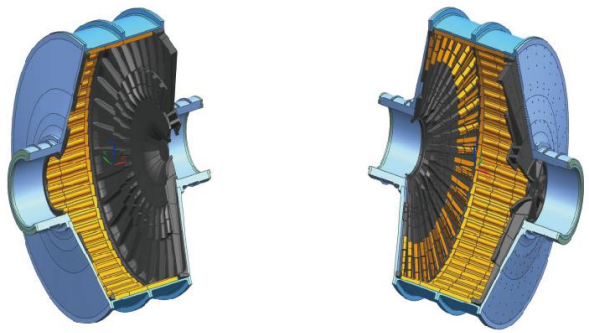






复合衬板安装示意图

Installation of Poly-Met (Rubber Metal Composite) Liners



我公司研制开发的最新磨机衬板新技术–耐磨铬钼合金、瑞典HARDOX耐磨钢板橡胶复合材料的衬板可以显著的提高半自磨、自磨磨机矿量提升量和产量。

复合提升条、复合端衬板的采用有以下优势：

1、衬板的独特材料　提升条磨损面采用铬钼合金材料，合金瓦采用小块设计，用特殊的淬火工艺处理，耐磨性能同比一般的铬钼合金衬板提升50%以上，这是大块合金衬板后期淬火处理无法达到的；中间采用德国KRAIBURG橡胶公司提供的耐磨耐腐橡胶配方研制的高耐磨橡胶，实现动能缓冲，具有很好的抗冲击特性。

2、提高磨矿率　采用提升条和端衬板分开式安装，设计合理的提升面角度使得提升条对钢球的提升效果更好，装机初期就能达到最大的矿石处理量。

3、提高半自磨机的开机率 复合衬板质量轻，降低设备的重量，可降低磨机轴承载荷延长设备使用寿命，衬板的安装更加安全和快速，大幅降低停机更换衬板时间，（一般可节省3–5天因更换衬板造成的设备停机）设备运行时间长，大大提高矿山的经济效益。

4、提高半自磨机的运转率　复合衬板使用寿命长，降低了生产成本，提高生产效率，在同等条件下，降低噪音20分贝以上（橡胶缓冲原因，物料和磨矿介质击力变小）

5、降低能耗：据测算装半自磨复合衬板，装机重量下降30%单位磨矿电耗可下降8%以上。

The Poly-Met lifters, and feed and discharge head end liners has the following advantages:

1、The material of liner is unique: The chromium molybdenum alloy material is used to improve the wear surface of lifter bars, and the alloy steel, small in design, is treated with a special quenching process, thus the wear resistance is increased by more than 50% then the normal chromium-molybdenum alloy liner; In the middle, the high wear-resistant rubber developed by the German KRAIBURG is used to achieve kinetic energy buffering and has good impact resistance.

2、The grinding rate is improved: The lifting bar and end liner are separately installed. The reasonable lifting surface angle makes the lifting bar more effective to lift the steel ball. The maximum ore processing capacity can be achieved at the initial stage of installation.

3、The opening rate of the semi-autogenous mill is improved: Due to the light composite liner, the weight of equipment and bearing load of the mill is reduced, the service life of equipment is extended, the installation of the liner is safer and faster, and the time for replacing the liner is greatly reduced. (Generally, it can save 3-5 days equipment stoppage caused by replacing the liner. The equipment has a long running time, which greatly improves the economic benefits of the mine).

4、The operating rate of SAG mill is improved: The service life of the Poly-Met liner is long, the production cost is reduced, and the production efficiency is improved. Under the same conditions, the noise is reduced by more than 20 decibels (The impact force of material and grinding media is reduced owing to rubber cushioning)

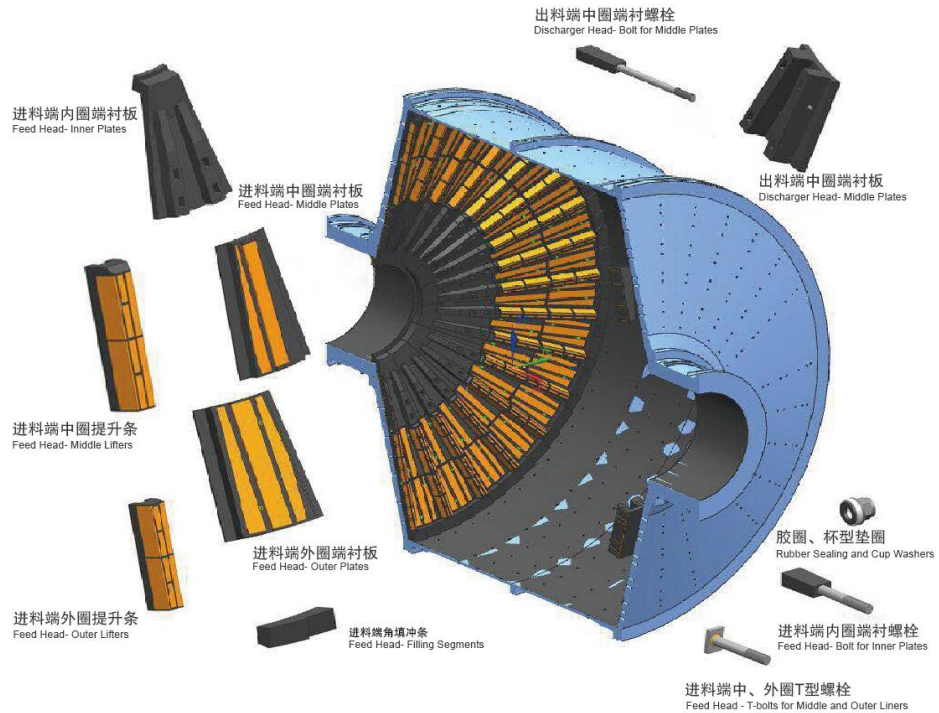
5、The energy consumption is reduced: Estimated that by installing Poly-Met liners, the installed weight cab be reduced up to 30% and unit grinding power consumption can be reduced by more than 8%.

半自磨复合衬板系列

Poly-Met (Rubber Metal Composite) Liners for SAG Mills

复合提升条　耐磨合金钢结构经过特殊设计，既耐磨又耐冲击，复合衬板 由进口HARDOX耐磨板和高耐磨橡胶经过高温、高压复合而成。

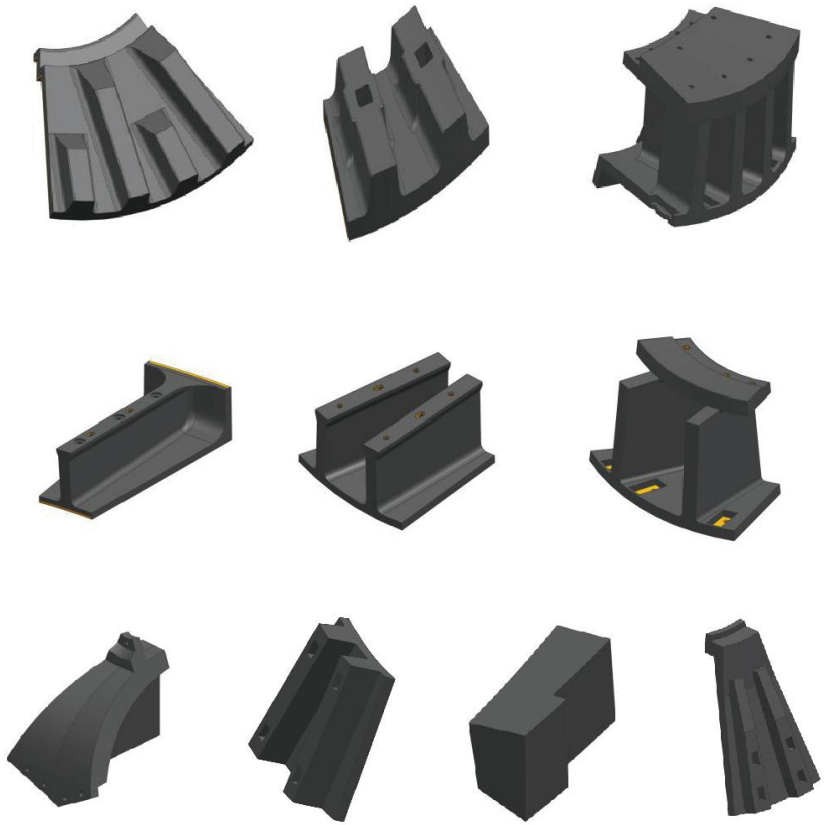
The Poly-Met lifting bar is Wear-resistant alloy steel structure and has been specially designed to be both wear-resistant and impact-resistant.
The Poly-Met Plate is made of imported high wear HARDOX steel plate and high wear-resistant rubber via high temperature and high pressure



半自磨机进料端复合衬板

Rubber Metal Composite Liners of Feed Head End of SAG Mills

半自磨橡胶衬板与矿浆提升器系列
Rubber Liners and Pulp Discharger for SAG Mills



半自磨橡胶衬板与矿浆提升器系列
Rubber Liners and Pulp Discharger for SAG Mills









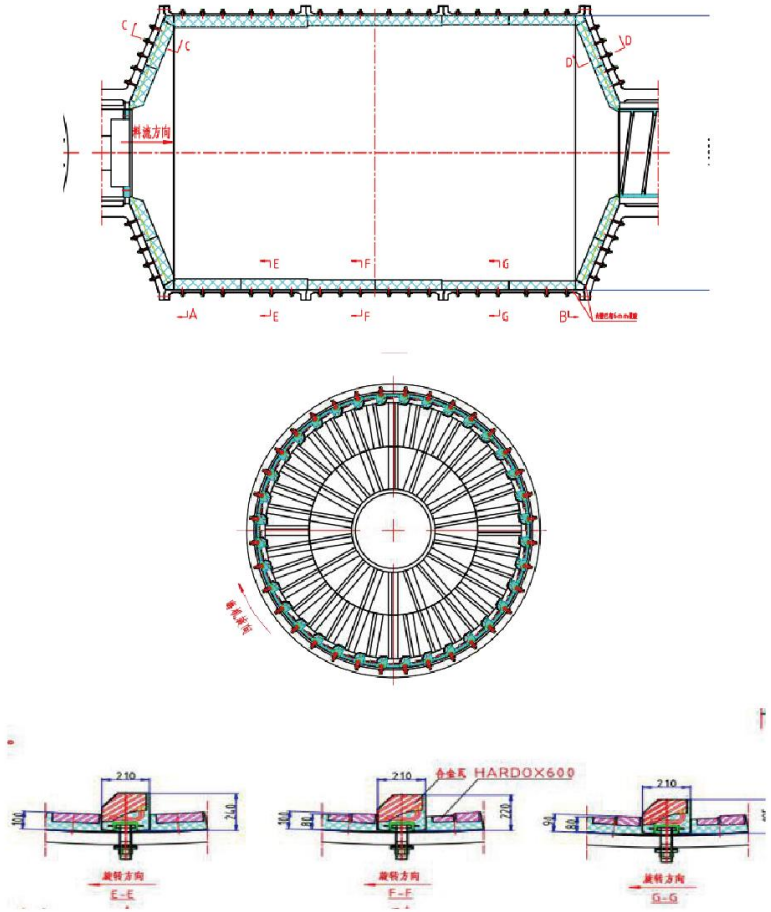
球磨机复合衬板现场使用照片

Application of Poly-Met (Rubber Metal Composite) Liners for Ball Mills



球磨机复合衬板安装示意图

Assembly of Poly-Met (Rubber Metal Composite) Liners for Ball Mills



球磨机橡胶衬板
Rubber Liners for Ball Mills

我公司在引进德国KRAIBURG橡胶公司生产技术的基础上，经过长期的研发、设计和试验，成功的开发出各种球磨机用高耐磨橡胶衬板。

主要产品有：高耐磨球磨机橡胶衬板，各种漏斗衬板，重筛衬板，单筛衬板等，产品具有抗冲击、耐腐蚀、高耐磨、重量轻、使用寿命长、安装方便；运行节能、环保、安全、高效等优点。适用于各种球磨机、棒磨机、润磨机、水泥磨机、陶瓷磨机、振动给料机等选矿设备。自2010年研发并投入市场以来，已在国内外100多家有色金属矿山、黑色金属矿山、非金属矿山选矿厂、冶炼厂，以及电厂脱硫磨机等行业广泛应用。

适用范围：溢流型、格栅型、多仓型球磨机，可满足一段粗磨、二段或再细磨工艺要求，适用于直径φ1.5米以上的的球磨机全套或者φ5M以上球磨机两端使用。

性能特点：

1、高耐磨性，使用寿命是金属衬板的1.5倍以上。
2、噪音低，比金属衬板低8–10dB。
3、拆装方便，特殊设计的安装方式可使安装时间节省一半以上。
4、重量轻，大大节省电耗。

Based on production technology from German KRAIBURG, Sinow has successfully developed various wear resistant rubber liners for various ball mills after long-term research, development, design and testing.

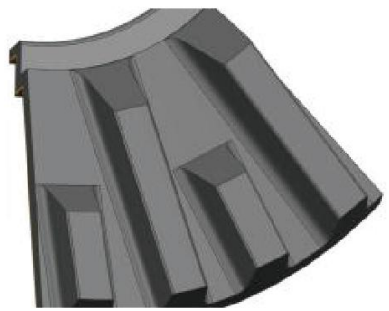
The main products are: high wear-resistant rubber liners for ball mills, various hopper and chute liners, heavy screen liners, single screen liners, etc. The rubber liners have impact resistance, corrosion resistance, high wear resistance, light weight, long service life,and as well as easy installation; The liners are energy saving, environmental protection and safety, efficiency in running etc.; Applicable to a variety of ball mill, rod mill, cement mill, ceramic mill, vibration feeder and other mineral processing equipment. Since R&D and put into the market in 2011, the liners has widely and well been used in more than 100 non-ferrous metal mines, ferrous metal mines, non-metal mine concentrators, smelters, and power plant desulfurization mills both at home and abroad.

Application: The rubber liners are applied to the overflow, grate, and multi-chamber ball mills in primary coarse grinding; secondary grinding and/or refine grinding process requirements, suitable for a full set of ball mill with a diameter of φ1.5 meters or more, or both ends of a ball mill of φ5M and above .

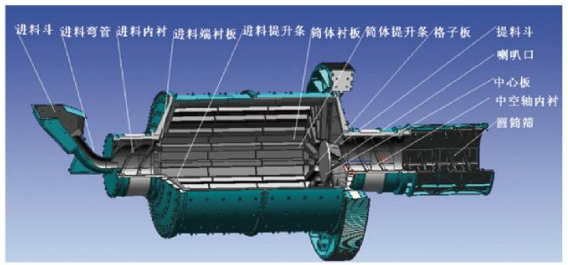
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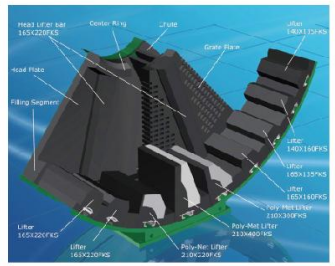
1、high wear resistance, life is more than 1.5 times the metal liner.
2、 Low noise, 8-10dB lower than metal liners.
3、 Easy to disassemble and install, special design of the installation can save more than half of the installation time.
4、 Light in weight, greatly saving power consumption.





球磨机橡胶衬板安装示意图
Installation view of rubber liners for ball mills







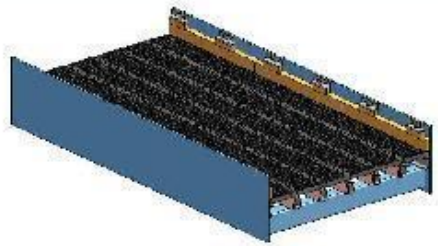




球磨机橡胶衬板组成：提升条、筒板、端衬板、中心环、角衬板

Parts of rubber liner of ball mill: lifter bars, shell plates, end plates, center ring and filling segments etc.

轨座式模块化筛网系列
Modular Screening Media



我公司在长期与终用用户的沟通交流中，综合筛网的使用工况环境研发了模块化筛网应用平台，多种筛网安装方式具有以下优点：
1、采用卡扣式安装，节省工人劳动强度，缩短检修时间。
2、模块化标准尺寸为305*610,同时适用3670,3661，2460,2160，1836等型号筛机，可实现备件统一化。
3、现在筛网局部破损需要更换整张筛网，升级之后如有局部破损只需要更换其中一块筛网即可，节省备件费用，且升级后筛网寿命更长，平均使用寿命可在一年以上。
4、采用国家最新版的立筒式卡槽，使申闪筛网的安装，有孔区域面积增大，保证筛分效率。
5、每块筛网的重量在4.5KG左右，不会增加筛机负荷。
6、每块筛网筛面有孔区具有弧性，在筛机工作时可上下抖动，有效防止堵孔。
7、如果单双层振动筛，最佳方案是：上层采用耐冲击橡胶筛网下层采用高耐磨聚氨酯筛网。

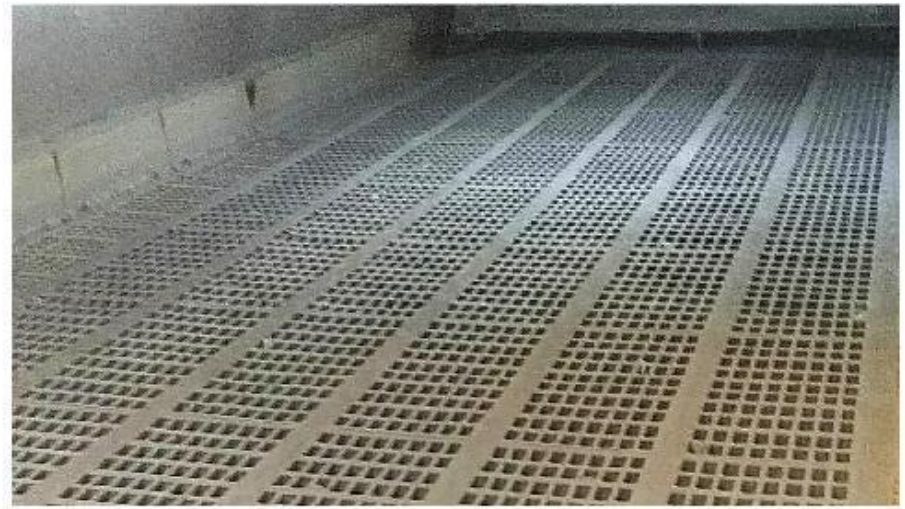
Our company has developed modular screen panels during the long contacts with screen users and integrated screen mining conditions. The modular screen panels has the following advantages:
1、The use of clip-on installation saves labor intensity and shortens the maintenance time.
2、The standard size of modular panel is 305 x 610, Simultaneously suitable for screen machines type 3670, 3661, 2460, 2160, 1836 and other types. The united parts are realized.
3、Normally the screen panel is partially damaged, the entire screen Panels needs to be replaced. After the upgrade, only one or two panels need to be replaced, a partial wear. This saves spare parts costs, and the upgraded screen has a longer life time. The average screen life can be one year or more.
4、As use of latest international clip on installation, the membranes of middle screen panels become narrow, and the hole area of screen panels are increasing, thus ensure screening efficiency.
5、The weight of each screen panel is about 4.5KG, which will not increase the load on the screen.
6、Each screen panel has a tough nose in the hole area and can be shaken up and down when working in screening decks, thus blocking (materials jam in the hole) can effectively be prevented.
7、If it is a double-deck vibrating screen machines, the best solution is: the upper deck uses impact-resistant rubber screen panels and the lower deck uses highly wear-resistant polyurethane screen panels.





筛机装配示意图
Assembly of screen panels

轨座式模块化筛网安装现场
Installation of Trellstep Screen Panel







模块化筛网部分产品图片
Installation of Modular Screen Panel









橡胶筛网系列
Rubber screen series

橡胶筛网系列是我公司与德国KRAIBURG公司联合研发了耐磨耐撕裂橡胶配方，用于生产高耐磨橡胶骨架式筛网，张紧式筛网同比市场上其他材质筛网具有更好的抗冲击性，更适用于物料大冲击大负荷大的工况环境，使用寿命是高锰钢楔形筛网的2 倍，并具有轻质易于安装，筛分效率高等优点。

Rubber Screen Panels
Our company, together with Germany KRAIBURG, developed a wear and tear resistant rubber formula, which is used to produce high abrasive internal steel frame rubber screens. The panel is better in impact resistance than other material screens on the market, which is suitable for application in large impact, large load and large working conditions. The panel's service life is 2-4 times than that of ordinary rubber and plastic screens and it has the advantages of light weight, easy installation, and greatly improved screening efficiency.

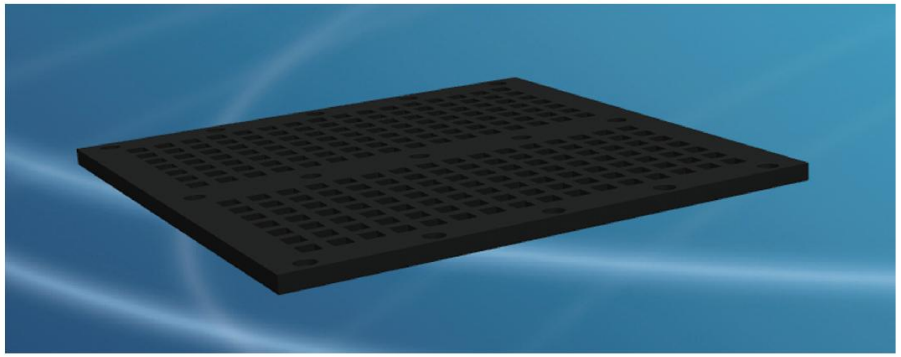


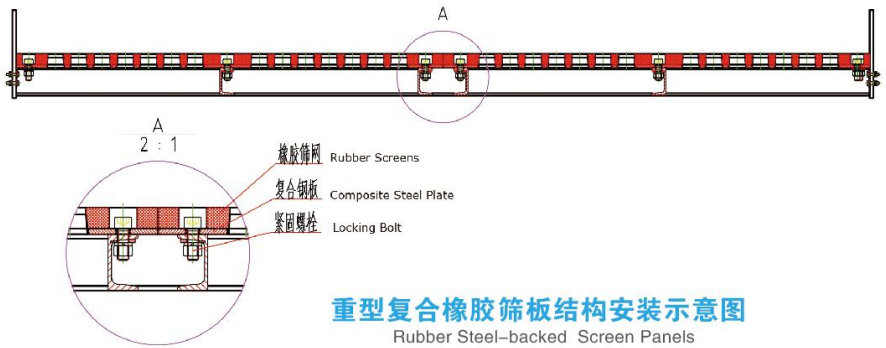
骨架式橡胶筛板
Internal steel frame rubber screen panel



张紧式橡胶筛网
Tensioning/hooked rubber screen cloths

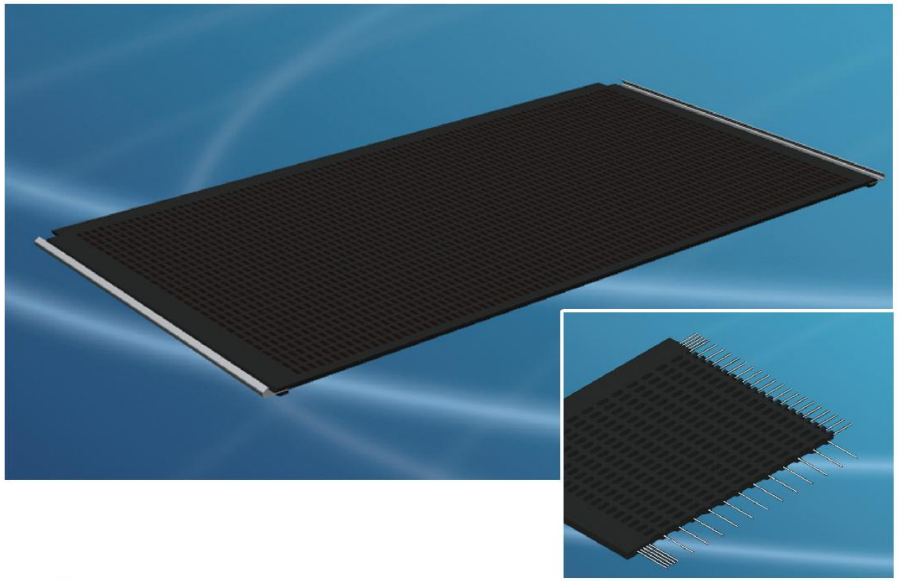
产品介绍
Product Description

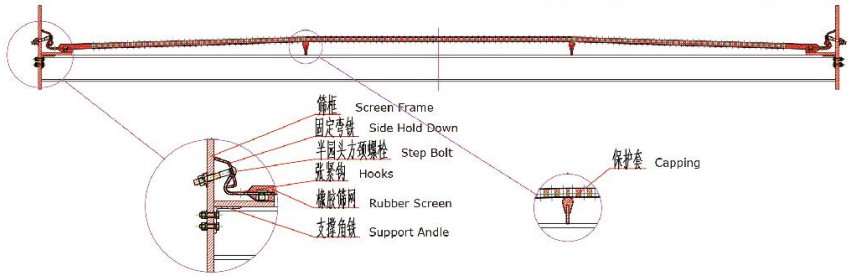




重型复合橡胶筛板结构安装示意图
Rubber Steel-backed Screen Panels

产品介绍
Product Description





张紧式橡胶筛网安装结构示意图
Rubber Tensioned Screen Clothes

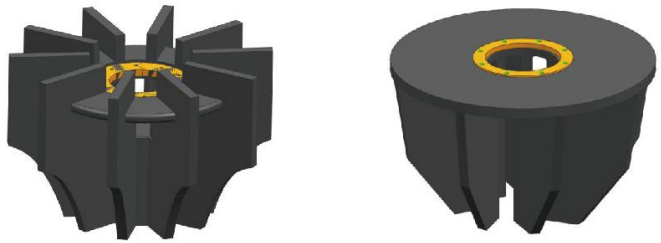
浮选机转子定子系列
Flotation Impellers and Diffusers

我公司生产的浮选机转子定子涵盖北矿院和美卓KYF系列，XCF系列，SF系列，BF系列等型号，最大规格尺寸国内已做到320立方，国外与美卓公司配套已做到330立方以上，根据客户需要，定子可设计成分体式，更易于安装。

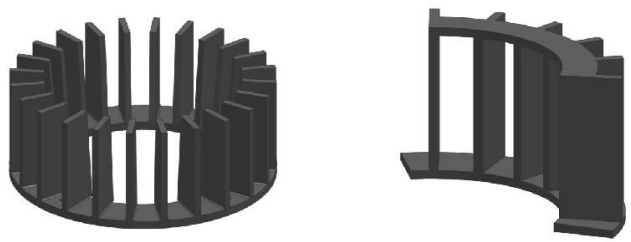
产品具有高耐磨性，耐冲击性，耐撕裂及化学稳定性，尤其是用于有色矿山选矿铜钼分离等强酸或者强碱(PH13–14)并伴随着80℃以上高温环境具有超长的使用寿命，目前在各类大型矿山已取得非常良好的使用效果。

The flotation impellers and diffusers produced by our company cover the KYF series, XCF series, SF series, BF series and other models developed by Metso and BGRIMM (Beijing General Research Institute of Mining &Metallurgy). The largest size has reached 320 cubic meters domestically, and Metso 330 cubic meters oversea. Above, according to customer requirements, the diffuser can be designed into several pieces for easier installation.

The product has high wear, impact and tear resistance and are chemical stable, especially used for strong acid or alkali (PH13-14) conditions in separation of copper and molybdenum from non-ferrous mines, and has a longer lifetime under a high temperature above 80°C. Currently it has achieved very good results in various types of large-scale mines



浮选机转子示意图
View of Flotation Impellers



浮选机定子示意图（整体式与分体式）
View of Flotation Diffusers (Segments)

我公司生产的浮选机转子定子产品
Products of Flotation Impellers and Diffusers





高频精细筛网
High Frequency Fine Screen Panel

随着国内选矿、选煤行业产品加工精度和工艺水平的不断提高，对筛网的性能要求越来越高。我公司研制出性能高效、物美价廉能够替代进口的高耐磨聚氨酯筛网–聚氨酯高频筛网。

筛网采用倒V型设计，整张筛网一次成型，具有耐磨、防堵、开孔率高，寿命长等特点，使用寿命达6个月以上。这种高耐磨聚氨酯分级精细筛网填补了国内空白，在国内部分矿山配备的Derrick 高频筛上使用了这种高耐磨聚氨酯分级精细筛网，取得了非常好的效果，得到了用户的肯定。

With improvement of processing precision and technological level of local beneficiation and coal preparation industries, the performance required for screens are getting higher and higher. Our company has developed a highly wear-resistant pu high-frequency fine screen with good performance and high quality, which can be the replacement of imported screen.

The screen adopts inverted V type design. The entire screen is shaped once. It has features such as wear resistance, anti-blocking, high opening rate, long service life, etc. The service life is more than 6 months. This highly abrasion resistant polyurethane fine screen fills the domestic gap. It has achieved very good results applied to the domestic Derrick Stack Sizer equipped with by local mines and has been accepted by local users

自主研发并拥有自主知识产权
Independent research and development and own independent intellectual property rights

筛网成型技术达到国际先进水平
Screen forming technology has reached the international advanced level

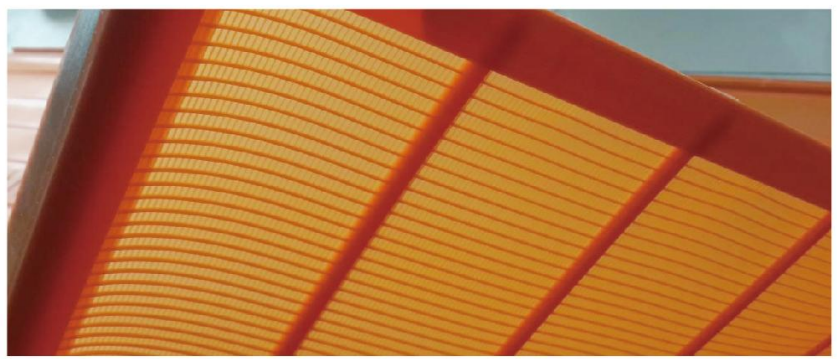
开孔率与进口产品媲美，达到31%–41%
Opening rate is comparable to imported products, reaching 31%-41%

独特的材料配方，具有较高的耐磨性，使用寿命达6个月以上
Unique material formula with high wear resistance, and its service life up to 6 months

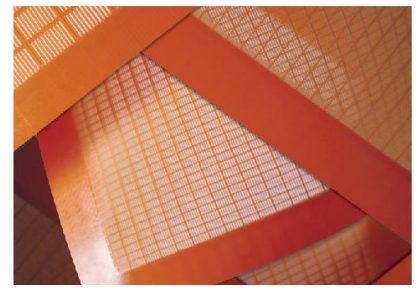
筛孔呈锥形，筛筋内置加强筋，彻底防止晒面堵孔
The screen hole is conical, and reinforcement in the screen ribs can completely prevent screen aperture from blocking .

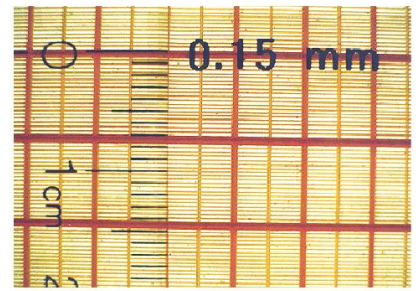
安装后横向张紧变形量小，具有增震助弹作用
After the installation, the horizontal tension deformation is small, and help screen with vibration.





高频精细筛网
High Frequency Fine Screen Panel





高频精细筛网参数表 Technical Data Sheet (TDS)

条缝宽mm Strip width		0. 075	0. 1	0. 125	0. 15	0. 18	0. 2
开孔率cm2 Opening rate	标准型 Standard type	1680	1920	1940	2100	2260	2350
	加宽型 Widening type	2030	2310	2350	2530	2720	2820
整张开孔率 Full opening rate	标准型 Standard type	23%	26%	27%	29%	31%	32%
	加宽型 Widening type	24%	27%	28%	30%	32%	33%
网区开孔率		31%	33%	34%	37%	40%	41%

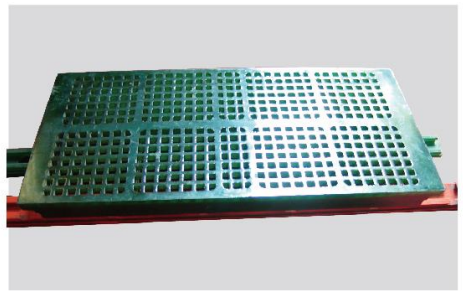
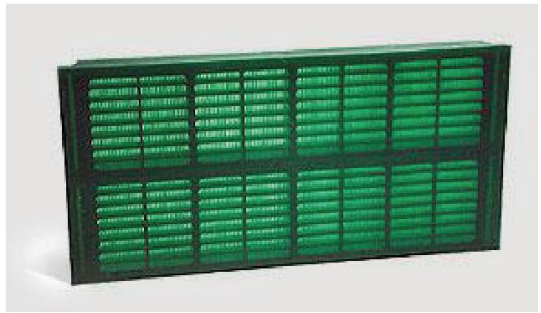
*标准型与国外先进产品开孔率相当
The standard type has the same opening rate as foreign advanced products.

*加宽型的开孔率大于国外先进水平
The widening type has more opening rate than foreign advanced products.

聚氨酯轨座式筛网
Clip-on Fixed Polyurethane screen Panel

聚氨酯轨座式筛网是由刚性扁铁焊接为框架，嵌入式特殊卡槽座和外覆高耐磨聚氨酯材料所构成的易安装筛网。
它主要用于选煤、水利水电砂石系统等行业中小粒度物料的筛分和脱介。它兼具高耐磨、抗撕裂、高弹性、使用寿命长等特点。 使用寿命是不锈钢筛网3–4倍，而重量仅是不锈钢筛网的六分之一， 减少了筛机的负荷，节约了大量电能，备受用户欢迎。筛网孔径为 0.08–180mm.

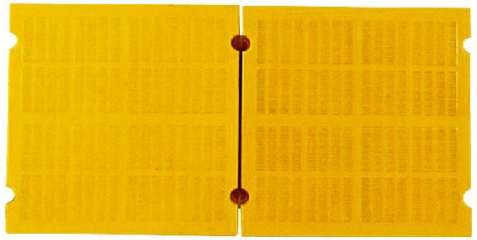
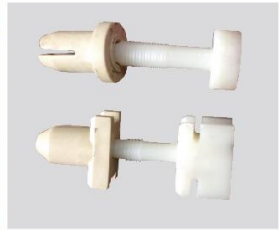
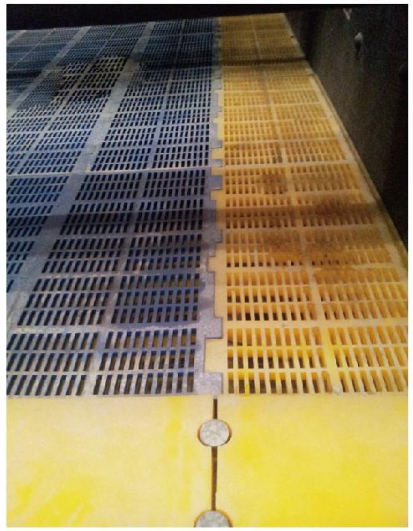
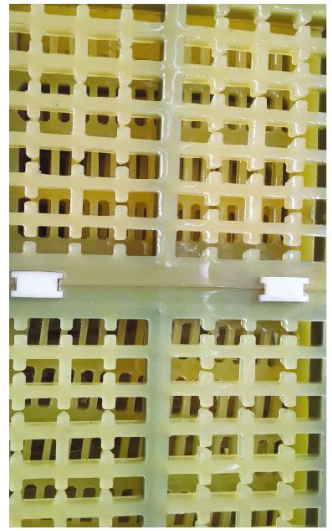
Polyurethane Rail Seat Type screen is an easy installation screen Panel, made of welded rigid iron frame, special embedded rail seat and high wear-resistant polyurethane material.
The panels are mainly used for small and medium particle material screening and dewatering in the coal preparation, sand and stone systems of coal, water conservancy and hydropower industries.
The panel has the advantages of high wear resistance, tear resistance, high elasticity, and long service life. Its service life is 3-4 times that of stainless steel screens, and its weight is only one-sixth that of stainless steel screens, which reduces the load on the screen machine and saves a lot of power, very popular among users. The panel apertures are 0.08-180mm.


膨胀销固定式筛网
Expansion Pin fixed Screen Panel

膨胀销固定式筛网的安装方法，是用膨胀螺栓将筛面压紧在筛框底座上的连接方式，适用于各种筛机。这种方式结构简单、可靠、自动锁紧、拆装方便，国内、国际通用。筛网可根据用户需要进行设计。

The installation method of expansion pin fixed screen is to press the screen panel onto the screen frame by pin and sleeve, and suitable for various types of screening machines. This method is simple, reliable, self-locking, and easy in disassembly. The panel is very popular both domestically and international. The screen can be designed according to the user's requirements.

弛张筛筛网
Flip-flop Screen Panels

1、采用进口聚氨酯原料，筛板具有较强的弹性形变的柔韧性，具有较好的耐磨性，优良的化学性能和物理性能使筛网具有超长的使用寿命和卓越的筛分功能。
2、适用于各种工业物料的筛分，对处理粘性和片状物料均有较好的效果，如焦炭、煤、粘土、石灰石等。
3、筛板采用压入撬出式安装，便于筛板安装维护。低噪音，设计隔震效果97%以上。高弹性聚氨酯筛网具有较好的耐磨性，设计使用寿命达4000小时以上。
可用于矿石、煤炭、砂砾、城市垃圾等粘度较大的，含水7%–14%，粒度为0–100rnm难筛物料的分级，分级粒度为1–30mm，尤其适用于中细粒度煤的深度筛分。

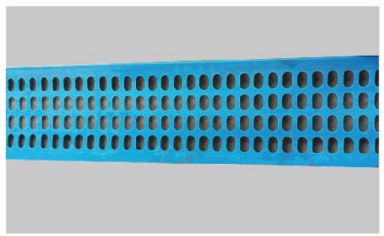
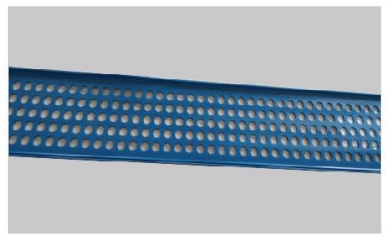
1、The Flip-flop Screen Panel, produced with imported polyurethane, has a strong flexibility of elastic deformation, good wear resistance. The excellent chemical and physical properties make the screen a long service life and excellent screening capabilities.
2、The Flip-flop Screen Panel is applicable to the screening of various industrial materials, and has good effects on the handling of sticky and flake materials, such as coke, coal, clay, limestone and so on.
3、The Flip-flop Screen Panel adopts the press-in and pull-out installation, which is convenient for the installation and maintenance; Low noise, and more than 97% designed isolation effect; Good abrasion resistance and more than 4,000 hours designed service life.
The Flip-flop Screen Panel can be used for classification of ore, coal, gravel, urban waste, etc. with high viscosity, 7% -14% of water content, and particle size of 0-100 nmm. The classification particle size is 1-30mm, especially suitable for deep screening of medium and fine-grained coal.

项目 Item	单位 Unit	试验标准 Test Standard	标准产品性能 Standard Product Performance	测量数值 Measurement Value
硬度 Hardness	shoreA	DIN53505	90±2	92
拉伸强度 Tensile Strength	MPa	DIN53504	≥40	56
扯断伸长率 Elongation at break	%	DIN53504	≥320	410
撕裂强度 Tearing Strength	KN/m	DIN ISO 34-1A	≥70	95
100%模量 100% Modulus	MPa		≥13	18
300%模量 300% Modulus	MPa		≥25	30
压缩变形（方法B） Compression deformation (Method B)	%	DIN ISO 815	≤35	32
回弹性 Rebound	%		≥35	45
磨耗指标 Abrasion Loss	NBS		≤180	175
备注 Remarks:	此报告为：弛张筛筛网检验专用 This report is for Relaxation Screens			

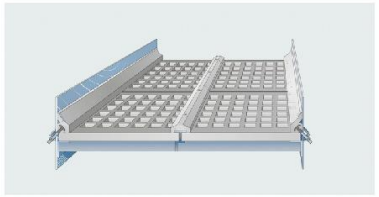
弛张筛筛网
Flip-flop Screen Panels



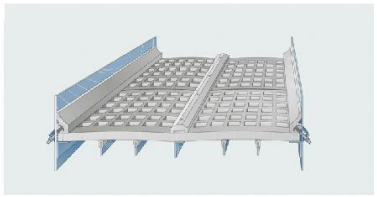


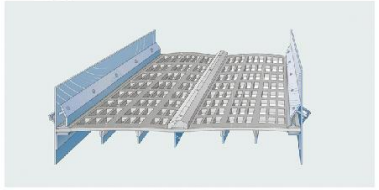
聚氨酯张紧筛网
Polyurethane Tensioned/Hooked Screen Panels



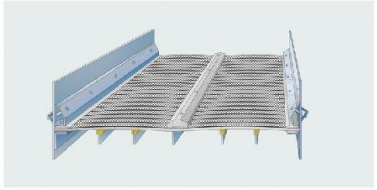
T-FlexSS

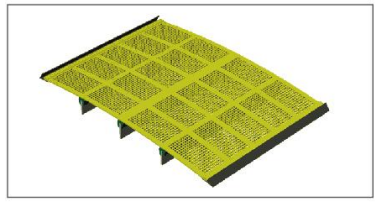


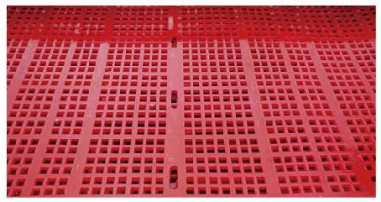
T-FlexUS



T-Cord







聚氨酯张紧筛网
Polyurethane Tensioned/Hooked Screen Panels



物理性能及参数 Physical properties and parameters

项目	单位 Unit	项目 Item			
硬度 Hardness	shoreA	65	70	75	80
拉伸强度 Tensile Strength	MPa	10	11.5	13.5	16
扯断伸长率 Elongation at break	%	410	400	395	390
抗剪强度 Shear strength	N/mm	33	43	47	55
DIN抗磨损 DIN abrasion resistance	mm3	98	50	39	35
回弹率 Rebound rate	%	80	70	69	67

产品规格 Product specification

项目 Item	孔型 Hole type	孔径 Aperture size	厚度 Thickness	项目	孔型 Hole type	孔径 Aperture size	厚度
1	方孔 Square hole	3.0*3.0	18	15	方孔 Square hole	35*35	28
2	方孔 Square hole	3.5*3.5	18	16	方孔 Square hole	40*40	28
3	方孔 Square hole	4.5*4.5	18	17	方孔 Square hole	42*42	28
4	方孔 Square hole	5*5	18	18	方孔 Square hole	48*48	30
5	方孔 Square hole	6*6	18	19	方孔 Square hole	50*50	30
6	方孔 Square hole	8*8	20	20	长条型孔 Slotted hole	1*20	18
7	方孔 Square hole	10*10	20	21	长条型孔 Slotted hole	2*25	18
8	方孔 Square hole	13*13	20	22	长条型孔 Slotted hole	3*25	18
9	方孔 Square hole	16*16	25	23	长条型孔 Slotted hole	4*15	18
10	方孔 Square hole	17*17	25	24	长条型孔 Slotted hole	4.5*15	25
11	方孔 Square hole	20*20	25	25	长条型孔 Slotted hole	6*15	25
12	方孔 Square hole	22*22	25	26	长条型孔 Slotted hole	6.5*15	25
13	方孔 Square hole	25*25	25	27	长条型孔 Slotted hole	7*22	25
14	方孔 Square hole	30*30	25	28	长条型孔 Slotted hole	10*30	25

注： 筛网的孔型、孔径、厚度和筛网的外形尺寸可以按照用户的筛机规格和用户的使用要求进行设计和生产，以保证用户的生产，达到用户的要求。

Note: The hole type, aperture size, thickness and external dimensions of the screen can be designed and produced in accordance with the user's specifications and requirements to ensure the user's production and meet the user's requirements.

大型皮带机滚筒
Lagged Pulley

科雷伯格滚筒冷包胶选用优质，耐磨的专用橡胶，采用独特的半硫化胶层，专用硫化剂相结合的工艺技术，工艺先进，技术可靠，可现场施工，节约停机时间，提高检修效率。

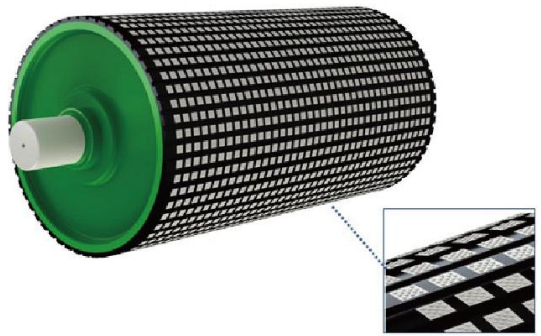
由德国科雷伯格提供的橡胶技术生产的镶嵌陶瓷片胶板采用专业技术进行衬胶，经过现场使用证明，在各种恶劣的现场条件下均能高效地工作，超强的耐磨损耐腐蚀性能显著延长输送装置的寿命，减少停机时间，具备高综合性价比优势。

该材料的另一个优势即为专用粘结层，该粘结层使得橡胶无论在多么恶劣的工况下均具有极高的粘接强度，保证超长的产品使用寿命。

The Cold pulley lagging sheet developed by Kraiburg combines high wear resistant special rubber with unique semi-vulcanized rubber layer and special vulcanizing agent. The coating is advanced and reliable in technology, can be done on the sit, and save downtime, improve maintenance effectiveness.

The ceramic pulley lagging sheet developed by Germany Kraiburg lined with ceramic by special technology. After field use, it proves that it can efficiently work in all kinds of bad conditions, and has excellent wear and Corrosion resistance, and significantly extends the life of the conveyor, reduces downtime, and has a high overall cost/performance advantages.

Another advantage of this sheet is its special adhesive layer, which makes rubber have a very high bond strength under any severe working conditions and guarantees a long product life.





由我公司给江铜永平铜矿生产的φ1450*1200钢芯皮带驱动滚筒
Lagged pulley with φ1450*1200mm used in Yongping Copper Mine in Jiangxi Province.

各种聚氨酯与橡胶件
Polyurethane and Rubber miscellaneous Parts

一、输送带清扫器

科雷伯格清扫器刮板采用新型高端聚氨酯原料生产，设计新颖，结构合理，具有抗冲击，耐磨损，抗腐蚀，易调整，不伤皮带等特点，清扫效果好，安装位置合理，特别适合含水量大，粘附性强的恶劣工况下的皮带清扫。

一、Conveyor Scraper

Kraiburg Cleaning Scraper is made of new high-grade polyurethane. It is novel in design, reasonable in structure, and has impact, wear and corrosion resistance, and features easy adjustment, no belt damage, good cleaning effect, and reasonable installation. It is suitable for belt cleaning under severe working conditions with large moisture content and strong adhesion.



三、各型号聚氨酯胶轮，橡胶胶轮，尼龙滚筒等

三、Various types of polyurethane and rubber wheels, nylon rollers, etc.





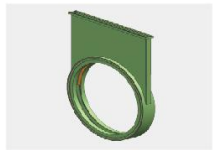
二、聚氨酯与橡胶闸阀阀套和球磨机衬套，旋流器橡胶衬套等。

我公司与德国科雷伯格橡胶公司合作研发的超耐磨耐腐聚氨酯和橡胶材质，由我公司自行设计加工生产的阀套和衬套具有高耐磨，不易变形，物理化学性能优异等特点，适合于多数矿山设备上使用。

二、 Polyurethane and rubber valve and Valve seats and cyclone liners, etc.

The high wear and corrosion resistant polyurethane and rubber compounds jointly developed by our company and Kraiburg are used to produce valves, valve seats and cyclone liners and feature highly wear-resistance, not easily deformed, and have excellent physical and chemical properties, Suitable for use on most mine equipment.









四、矿用橡胶或聚氨酯搅拌桶叶轮，聚氨酯鞍座，聚氨酯U型槽，垫块等非标杂件等

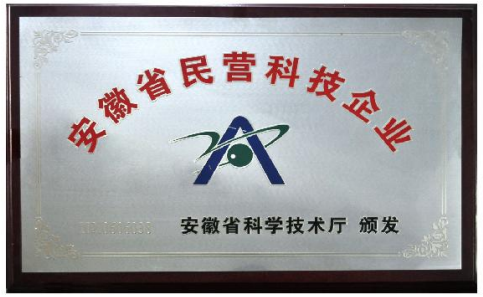
四、Non-standard miscellaneous items such as pu and rubber mixing impellers, polyurethane saddle, U-shaped groove and pad etc.







企业资质
Enterprise qualification









对外交流
Foreign exchange









