

 **Chinaplas® 2026**
国际橡塑展

热塑性弹性体 及橡胶技术指南

THERMOPLASTIC ELASTOMERS &
RUBBER TECH GUIDE

2026.4.21-24

中国·上海·国家会展中心（虹桥）
National Exhibition and Convention Center
(NECC), Hongqiao, Shanghai, PR China

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Booth No.: 1.1C66

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引言 / INTRODUCTION

橡胶行业正迈入绿色智能新纪元。CHINAPLAS 2026“热塑性弹性体及橡胶专区”和“橡胶机械专区”汇聚全球超过850家领先展商，以前沿材料与尖端装备勾勒出可持续发展的工业新图景。

本指南集中呈现行业突破性成果：

• 创新材料：

突破性能极限的生物基可回收TPE，实现资源循环；硅基热塑性弹性体兼具柔韧与耐高温特性；自修复硅胶则赋予材料更长使用寿命与智能特性。

• 高端装备：

硅橡胶微量射出成型机实现微米级精密控制，满足高精度组件需求；节能密炼机凭借智能化控制系统达成全自动化生产，大幅降低能耗与碳排放。

从新能源电池密封到航天医疗部件，从生物基可降解部件到柔性夹爪包覆，这些创新解决方案正驱动多领域升级，引领橡胶产业迈向可持续的未来。

The rubber industry is stepping into a new era of green and intelligent transformation. CHINAPLAS 2026 features two dedicated zones—"Thermoplastic Elastomers & Rubber zone" and "Rubber Machinery zone"—bringing together over 850 global exhibitors to showcase a sustainable industrial vision with cutting-edge materials and equipment.

This guidebook highlights key breakthroughs:

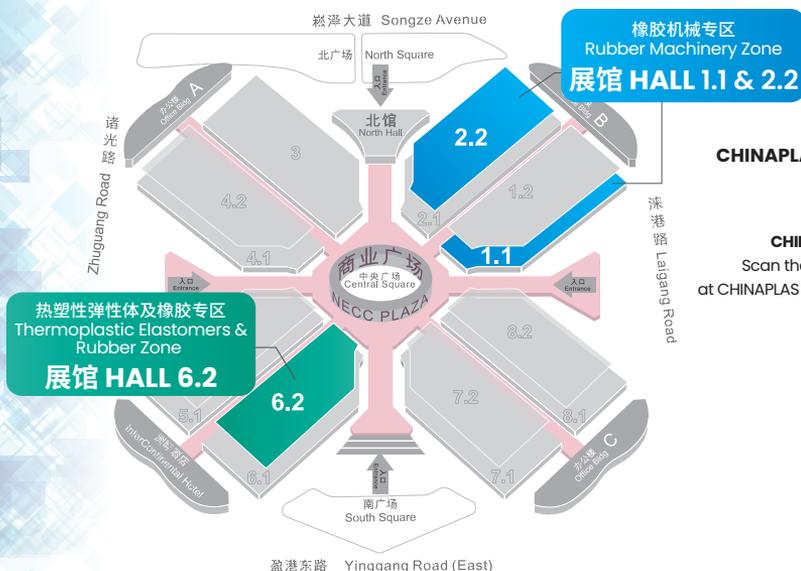
• Innovative Materials:

Bio-based recyclable TPEs that push performance boundaries; silicone-based TPEs combining flexibility and heat resistance; self-healing silicone for enhanced durability and smart functionality.

• Advanced Equipment:

Micro-injection molding machines for micron-level precision in silicone rubber parts; energy-saving mixers with smart control systems that enable fully automated production while reducing energy use and carbon emissions.

From sealing solutions for new energy batteries to aerospace and medical components, from bio-based biodegradable parts to flexible gripper coatings—these innovations are driving upgrades across sectors and advancing the rubber industry toward a sustainable future.



CHINAPLAS O2O 战略合作伙伴 — “CPS+ 在线供需对接平台”

扫码了解CHINAPLAS 2026创新橡胶科技，
1000+相关橡胶方案 等您来探索。

CHINAPLAS O2O Strategy Partner - CPS+ eMarketplace

Scan the QR code to explore the innovative rubber technologies
at CHINAPLAS 2026 and 1000+ related rubber solutions await your discovery.



机械
Machinery



原材料
Raw Materials

原材料 RAW MATERIALS



1

氢化苯乙烯嵌段共聚物—SEBS GP-9430

Hydrogenated Styrenic Block Copolymer – SEBS GP-9430

展台号 Booth No. **6.2C71**

李长荣化学工业股份有限公司
LCY CHEMICAL CORP



新品
New



LCY提供高效能SEBS解决方案，专为追求卓越性能的行业客户而设计，尤其适用于塑胶改质和高吸油应用。

其显著优势包括：

- 在高吸油配方下具有优异的持油能力。
- 优异的弹性和刚度。
- 低压缩永久变形和均衡的撕裂强度。
- 舒适的柔软触感。

主要应用于软塑胶混炼、玩具、床垫、靠垫和贴身用品等领域。

LCY provides high-performance SEBS solutions. These products are particularly suitable for plastic modification and high-oil-extended formulations and mainly apply in soft toys, mattresses, etc.

Their significant advantages include:

- Great oil-holding ability under high oil-extended recipe.
- Excellent elasticity and stiffness.
- Low compression set and balanced tear strength.
- Comfortable and soft touch.

展台号 Booth No. **6.2C02**

台橡股份有限公司
TSRC CORPORATION



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TAIPOP® SEBS 6052

TAIPOP® SEBS 6052为线型SEBS，采用独特的二嵌段结构与低分子量设计，苯乙烯含量为22%，可提供多孔与密实颗粒两种形态的粒子选择。它以高流动性、低苯乙烯含量及多功能性脱颖而出，是追求更佳流动性、透明度与弹性的应用的理想材料。主要应用与优势：

- 卫材弹性薄膜：可在较低温度下高效运作，节省能源；提供优异的拉伸性能，同时兼具硬度与弹性。
- 热熔胶：简化热熔胶制程，提高生产效率；与聚烯烃更佳的兼容，改善耐候性、降低气味，并具环保友好特性。
- 塑料改性：提升与PP、PS在共挤出加工的兼容性并优化制程效率；提升透明度、弹性与柔软度，助力开发低油或少油配方产品。

TAIPOP® SEBS 6052 is distinguished by high flowability, low styrene content, and excellent versatility. It is an ideal material for applications requiring enhanced fluidity, transparency, and elastic performance:

- Hygiene Elastic Film: It enables efficient processing at lower temperatures, helping reduce energy consumption. It delivers excellent drawdown performance with a balanced combination of hardness and elasticity, ensuring comfort and reliability.
- Hot Melt Adhesives: It streamlines processing and improves formulation efficiency. Its enhanced compatibility with polyolefins provides better weather resistance, reduced odor, and supports more environmentally friendly adhesive systems.
- Polymer Modification: It facilitates coextrusion with polypropylene (PP) and polystyrene (PS), improving material compatibility and production efficiency. It also enhances transparency, elasticity, and softness, enabling lower oil loading without compromising performance.



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凯柏胶宝®: 创新TPE材料解决方案改善医疗保健产品功能

KRAIBURG TPE : Innovative TPE Solutions Upraises Healthcare Products

展台号 Booth No. **7.2D13**

凯柏胶宝®
KRAIBURG TPE



凯柏胶宝®持续为医疗设备与医疗保健应用提供创新TPE材料解决方案。其医疗级TPE材料被成功应用于止血带及Esmark绷带等产品，展现出在性能、质量与可靠性方面的卓越优势。该类产品采用一次性设计，有助于提升卫生水平、降低交叉污染风险，并支持可持续医疗与ESG理念。凯柏胶宝®的TPE材料兼具优异弹性、耐用性、抗撕裂性及柔软触感，不含乳胶、低致敏性，提升患者舒适度与使用安全性，同时满足紧急医疗场景下的人体工学与功能性需求，推动医疗保健产品的持续创新与升级。

KRAIBURG TPE demonstrates the innovative impact of its healthcare-grade TPE materials in medical and healthcare applications. Its advanced TPE solutions are widely used in critical products such as tourniquets and Esmark bandages, where high performance, quality, and reliability are essential. These products benefit from a single-use design that enhances hygiene, reduces cross-contamination, and supports sustainable medical practices aligned with ESG principles. Key material advantages include superior elasticity for reliable compression and flexibility, latex-free and hypoallergenic safety, excellent durability and tear resistance, and a soft-touch surface that improves patient comfort. Ergonomic and functional design further ensures ease of use in emergency and routine medical settings. Together, these features highlight how KRAIBURG TPE's innovative materials elevate product consistency, safety, and functionality, supporting healthcare.

展台号 Booth No. **6.2C102**

东莞捷佳塑胶科技有限公司
DONGGUAN JEA PLASTIC CO., LTD.



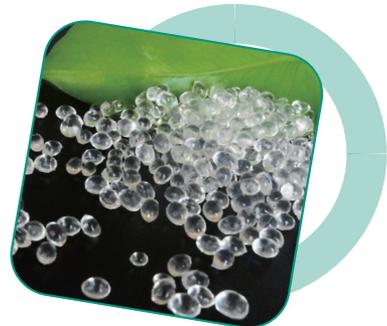
4

医疗级高透明TPE

Medical-grade High-transparency TPE

此款医疗级高透明TPE材料，通过国标ISO10993、GB4806食品级，并通过酒精，精油测试，可与PP、PE、AB、PC等材料完美粘连，适用于注塑及挤出成型。此材料有优良的手感，适合复杂造型的产品加工，硬度范围为40-90A，透明度较好，可满足高透明要求的制品，广泛应用于婴童、医疗、玩具等行业。

This medical-grade, high-transparency TPE material complies with ISO 10993 and GB 4806 food-contact standards, and has passed alcohol and essential oil resistance tests. It offers excellent adhesion to PP, PE, ABS, and PC, and is suitable for both injection molding and extrusion. The material provides a superior tactile feel, supports processing of complex shapes, and is available in a hardness range of 40-90A. With high transparency, it meets demanding clarity requirements and is widely used in infant and child products, medical devices, and toys.



5 新一代TPC运动鞋材: 恩骅力Arnitel® Performance

The New Generation of TPC Performance Materials for Sports Shoes: Envalior Arnitel® Performance

展台号 Booth No. **7.2C61**

恩骅力工程材料(上海)有限公司
ENVALIOR ENGINEERING MATERIALS
(SHANGHAI) CO., LTD.



新一代TPC材料Arnitel® Performance集高回弹、耐用性、气候适应性及可持续化学特性于一身，在运动鞋领域以成功平衡耐用性与舒适性而享有盛誉。其触感柔软，结构轻盈，同时兼具橡胶般的强度与柔韧性。此外，该材料在发泡后能量损失极低，有效提升了中底的耐磨性能，确保鞋履在剧烈运动中为足部提供坚实可靠的支撑。Arnitel® Performance的回弹率稳定超过80%，比TPU高15~20%，在轻量化设计中比PEBA高出多达5%。Arnitel® Performance的模量在-20°C至+100°C的宽广温区内始终保持稳定，能在不同时间和温度下保持稳定回弹。Arnitel®的物理发泡工艺支持精细调校，让设计师无需依赖厚重的中底或碳板，即可优化回弹与稳定。Arnitel® Performance作为一种无需化学交联的可回收热塑性塑料，它拥有EVA和TPU无法比拟的优势。无氮基化学键意味着，燃烧时零氮氧化物排放。非热固性结构意味着它可以再次加工，融入循环经济应用。此外，其化学成分与食品接触、饮用水和医疗级认证牌号一致，确保了更高的纯度与工艺控制标准。

Arnitel® Performance is an advanced TPC offering high rebound (>80%), durability, climate resilience (-20°C to +100°C), and sustainability. Ideal for sports shoe midsoles, its soft-touch, lightweight design mimics rubber yet minimizes energy loss post-foaming for enhanced wear resistance. Outperforming TPU (15%-20%) and PEBA (~5%), its precise physical foaming eliminates the need for bulky designs or carbon plates. As a recyclable thermoplastic without chemical crosslinks, it avoids NO emissions upon burning and enables reprocessing for circularity. Its pure chemistry meets stringent medical/food-grade standards for superior quality control.

展台号 Booth No. **6.2K92**

大东树脂化学股份有限公司
GREAT EASTERN RESINS INDUSTRIAL CO., LTD.



6 ISOTHANE® 高轻密度高弹性ETPU爆米花

ISOTHANE® Expanded ETPU

ISOTHANE® ETPU材料具超高弹性及超轻密度，于零下低温之环境中也能确保性能不变；且材料的回弹率高，并且耐长时间及反复压缩，永久形变低；是柔软的触感与优越弹性的完美结合，多种粒径大小提供，缤纷轻量新生活。

- 高回弹性能：材料的回弹性最高可达63%以上。
- 超轻密度：材料密度范围在100-200kg/m³。
- 低温性能好：材料于-25°C依然具有超高回弹性和柔软性。
- 耐黄变性强：材料耐黄变性强，也有不黄变规格。
- 高耐磨耗性：材料的磨损量甚低。
- 高耐弯折性：制成品耐弯折次数高于12万次。
- 高耐压缩性：制成品压缩回复高于90%。
- 环保性材料：材料使用环保性材料生产。

ISOTHANE® ETPU has light density and high elasticity. Even at negative temperature, it can withstands prolonged and repeated compression without permanent deformation. ETPU (expanded thermoplastic polyurethane) offers a perfect combination of soft texture and great elasticity. ISOTHANE® ETPU- colorful foam beads with high elasticity, customized different color and particle size for lightening era.

- Super response: Rebound rate could be up to 63%.
- Low density: Density: 100-200kg/m³.
- Good performance at low temperature: High elasticity and softness even at -25°C.
- Anti-yellowing: Anti-yellowing material, also have non-yellowing grade.
- Good abrasion resistance: Very low abrasion.
- High flexing endurance: Finished goods can bear up to 120,000 bends.
- Low compression set: Compressed reply is higher than 90%.
- Eco-friendly material: All raw materials and processes are environment-friendly.



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Dryflex TPE发泡材料

Dryflex TPE Foams

展台号 Booth No. **6.2B82**

海克斯波聚合材料(佛山)有限公司
HEXPOL COMPOUNDING (FOSHAN) CO., LTD.



HEXPOL Dryflex TPE发泡材料，为交联弹性体发泡提供了可回收方案。这类材料可以通过注塑或挤出工艺进行加工，从而提高生产效率。配方设置上，由于不含交联剂使其可适用于食品接触类产品，而且它的低密度为产品减重提供了可行性。HEXPOL开发了多种可发泡TPE材料，广泛应用在汽车、建筑行业、体育、电缆和封盖等行业并拥有着深厚的技术积累。

优点:

- 密度 (产品发泡后) : 0.3至0.9g/cm³。
- 密度 (密实颗粒) : 0.9至1.2g/cm³。
- 耐温性: +100°C, 短期120°C。
- 压变性能: 中/高等级, 适用于半动态和静态应用。
- 无交联, 可实现食品接触。
- 可在闭环系统实现机械回收。

Dryflex TPE Foams provide a recyclable alternative to crosslinked elastomer foams. They offer production efficiencies as they can be processed via injection moulding or extrusion. As there are no crosslinking food contact materials are possible. Low density supports weight reduction targets. HEXPOL developed several foamable TPEs and achieved application know-how in industries such as automotive, building industry, sports, cables and closures.

Advantages:

- Density (foam): 0.3 to 0.9g/cm³.
- Density (granules): 0.9 to 1.2g/cm³.
- Temperature resistance: +100°C, short term 120°C.
- Compression set: medium/high: for semi-dynamic & static applications.
- No crosslinking so food contact possible.
- Can be mechanically recycled in closed-loop systems.

展台号 Booth No. **7.2B30**

南京聚隆科技股份有限公司
NANJING JULONG SCIENCE & TECHNOLOGY
CO., LTD.



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超高流动性发泡弹性体材料

Ultra-high Fluidity Foamed Thermoplastic Elastomer

- 加工灵活高效: 超高流动性赋予产品更高设计自由度, 可精准填充复杂型腔, 适配多样化蒙皮结构设计; 注塑成型过程流畅高效, 大幅提升生产节拍, 助力生产效率提升与生产成本降低。
- 性能卓越稳定: 支持发泡工艺, 成品兼具轻量化与缓冲隔音特性; 拥有优异的耐候性与耐热老化性能, 可适应复杂户外及高低温工况; 低温环境下硬度变化幅度小, 手感始终保持舒适稳定。
- 绿色环保低味: 具备更佳的环境性能, 可回收再利用, 符合绿色生产趋势; 同时展现出色的VOC控制水平与低气味特性, 满足汽车内饰、智能家居等高端场景的严苛要求。

- Flexible & Efficient Processing: Ultra-high fluidity delivers greater design freedom, enabling precise filling of complex mold cavities for diverse skin structures. Smooth injection molding shortens production cycles, boosting efficiency and cutting costs.
- Excellent & Stable Performance: Foamable for lightweight, cushioning and sound-insulating finished products. It offers superior weather and heat aging resistance for harsh outdoor, high and low-temperature conditions. Minimal hardness variation at low temperatures ensures consistently comfortable touch.
- Green, Eco-friendly & Low Odor: Recyclable with enhanced environmental performance, aligning with green production trends. Excellent VOC control and low odor meet the strict requirements of high-end automotive interior and smart home applications.

新品
New



9 室温硫化硅胶及硅胶片

Room Temperature Vulcanization & Silicone Sheet

展台号 Booth No. **6.2G102**

HRS CO., LTD.



FS（消防系统）利用以硅为主要成分的硅树脂所具备的独特性能，如耐热性、阻燃性、隔音性、气密性等。它是一种经过特殊结构设计并在室温下硬化的硅酮泡沫。在发生火灾，有毒气体窒息造成人员伤亡的风险很高，而HRS FS泡沫不会产生有毒气体，因为它在发生火灾时不会释放有毒气体。

SS是一种经过特殊加工的硅产品，与目前IT行业电子电气产品趋向轻薄、小型化的趋势相反。产品的性能正在以高功能、复杂的方式释放。因此，会产生大量负载并产生热量。热量导致产品无法正常使用，因此有效阻挡热量的领域成为一个重要因素。

FS(Fire-Stop System) is fire-stop material and designed based on silicone rubbers unique characteristics such as high temperature resistance, flame retardant, sound-proofness and air-tightness. FS Foam effectively seals the opening of buildings to protect human from harmful gases. SS is a specially processed silicone product. In contrast to the current trend of slimming and miniaturization of the electrical and electronic products in the IT industry, there are equipped with highly functional and composite functional features. Therefore, the ability to effectively block the heat generated by overloading, which in turn prevents the devices from functioning properly, has become an important element of SS.

展台号 Booth No. **6.2A105**

丸一橡胶（深圳）有限公司
MARUICHI RUBBER (SHENZHEN) CO., LTD.



10 隔膜泵阀橡胶

Diaphragm Pump Valve Rubber

该类产品与微型气泵、液泵、真空泵、微型电磁阀、液阀等相关产品配套，广泛应用于医疗保健、健康按摩、舒适汽车座椅、小家电、浴室等多个领域。

This type of product is supplied in related products such as micro air pumps, liquid pumps, vacuum pumps, micro solenoid valves, liquid valves, etc., and is widely used in many fields such as medical care, health massage, comfortable car seats, small appliances, bathroom, etc.



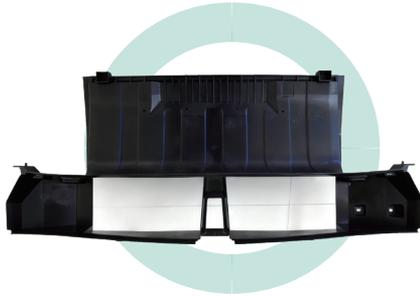


用于新能源汽车的弹性体运用方案

Application Plan for Elastomers in New Energy Vehicles

展台号 Booth No. **6.2C101**

昆山科信高分子材料有限公司
KUNSHAN KESUN POLYMER CO., LTD.



该弹性体可以应用于汽车进气格栅，散热器主框架等功能件中，可提供以下性能：

- 更好的高低温稳定性：低温（-40°C）下不脆裂、不失去柔韧性，避免车辆冷启动或冬季行驶时，格栅受冲击（如碎石撞击）出现断裂。
- 高温（120°C）下不软化、不蠕变，防止散热器主框架因热变形导致散热器安装错位，影响散热效率。
- 优秀热老化抗性：长期高温暴露后，材料的拉伸强度、断裂伸长率等力学性能保持率≥85%，且无明显黄变、龟裂，确保部件使用寿命与整车同步。
- 优秀耐化学性：耐受发动机舱内的油污（机油、冷却液）、路面飞溅的酸碱溶液（如融雪剂）、洗车液等，浸泡后（如浸泡机油 500h）后保持质量变化率≤2%。
- 力学性能保持率≥75%，避免材料溶胀、软化导致结构失效。

- Ideal for automotive air intake grilles & main radiator frames boasts unrivaled high/low temperature stability (-40°C to 120°C).
- Exceptional thermal aging resistance: ≥85% mechanical property retention, no yellowing or cracking, matches vehicle lifespan.
- Superior chemical resistance: withstands oil, coolant, de-icing salt & car wash fluids; ≤2% mass change after 500h oil immersion.
- Prevents grille fracture in winter impacts & radiator misalignment from heat creep/trusted performance for auto functional parts.
- Reliable elastomer for critical auto components: durable, stable, and engineered to outperform in harsh engine bay environments.

展台号 Booth No. **6.2B72**

南通普力马弹性体技术有限公司
NANTONG POLYMAX ELASTOMER TECHNOLOGY CO., LTD.



GEON® Polymax 防水卷材

GEON® Polymax Waterproof Coil

GEON® Polymax开发了一款防水卷材产品，终端可用于建筑墙体、屋面、以及隧道、公路等处，起到抵御外界雨水、地下水渗漏的一种柔性建材产品。

该产品有以下优势：

- 耐水性好，不透水。
- 耐高温可达100度不变形，耐候性优异。
- 优异的机械强度，可以承受一定的载荷。
- 低温柔韧性好，易于施工、不脆裂。
- 回弹优异，回复率大于80%。
- 不含有害物质，可通过RoHS, PAHs, REACH等认证。
- 挤出性能稳定。

GEON® Polymax has developed a waterproof coil product, the terminal can be used in building walls, roofs, tunnels, highways and other places, to resist external rain, groundwater leakage of a flexible building materials product. This product has the following advantages:

- Good water resistance, impervious to water.
- Temperature resistance up to 100 degrees without deformation, excellent weather resistance.
- Excellent mechanical strength, can withstand a certain load.
- Good low temperature flexibility, easy construction, no brittle crack.
- Excellent resilience, response rate is greater than 80%.
- Does not contain harmful substances, and can pass RoHS, PAHs, REACH and other certifications.
- Stable extrusion performance.



机械 MACHINERY



1

A3系列橡胶注射成型机

A3 Series Rubber Injection Molding Machine

展台号 Booth No. **1.1D51**

广东伊之密精密橡塑装备科技有限公司
YIZUMI RUBBER MACHINERY CO., LTD.



A3系列产品融合了橡胶制品注射成型最新的专业技术和伊之密集团共性技术货架的先进技术，在成型性能、可靠性、易用性、可维护性及生命周期成本等方面进行了大幅优化升级，是橡胶智造的最佳选择。

Integrated with the latest rubber injection molding technology, and CBB of YIZUMI, the A3 series machines have been greatly optimized and upgraded in terms of molding performance, reliability, ease of use, maintainability and life cycle cost. Making it the premier choice for intelligent manufacturing of rubber parts.



展台号 Booth No. **1.1C54**

浙江百纳橡塑设备有限公司
ZHEJIANG BAINA RUBBER EQUIPMENT CO., LTD.



2

橡胶挤出机

Rubber Extruder

- 整机核心部件采用全进口配置，搭载德国GWK高精度温控系统，控温精度可达0.1℃，显著提升橡胶挤出的工艺稳定性与产品一致性。
- 配备先进真空系统，有效排除胶料中的气泡与杂质，增强橡胶制品的密实度与整体结构稳定性。
- 设有独立自动送料装置，可根据不同胶料的特性灵活调节供料，适应多样化的工艺需求。
- 采用智能化HMI操作系统，支持通过PC端或手机APP进行实时数据监控与远程控制，实现便捷的设备管理与生产调度。

- Featuring all-imported core components, the machine is equipped with a German GWK high-precision temperature control system, achieving 0.1 °C accuracy to significantly enhance process stability and product consistency in rubber extrusion.
- The advanced vacuum system effectively removes air bubbles and impurities from the rubber compound, improving the density and overall structural stability of rubber products.
- An independent active feeding mechanism that flexibly adjusts material supply based on different rubber compound properties, accommodating diverse process requirements.
- The intelligent HMI operating system supporting real-time data monitoring and remote control via PC or mobile APP, for convenient equipment management and production scheduling.



3

真空油封橡胶加硫机

Rubber Oil Seal Compression Molding Machine

展台号 Booth No. **1.1C52**

东毓 (宁波) 油压工业有限公司
TUNG YU HYDRAULIC (NINGBO) INDUSTRIES CO., LTD.



- 全流程自动化：实现从原料抓取、硫化成型到成品取出的全程无人化运行。
- 精准送料控制：振动盘确保金属骨架与胶料定向有序排列，为后续工序提供稳定基础。
- 高效高精度作业：三轴机械手抓取快速、定位精准，保障生产效率和产品一致性。
- 人力成本优化：机械手替代人工上料，显著减少人力投入与成本。
- 安全防护升级：通过自动化操作彻底避免高温烫伤风险，保障人员安全。
- 资源共享配置：支持多台机台共享上料取料机构，提升设备利用率，实现资源最优配置。

- Fully Automated Process: Enables unmanned operation from raw material feeding through vulcanization molding to finished product removal.
- Precision Feeding Control: The vibratory bowl ensures directional and orderly arrangement of the frame and rubber material, providing a stable foundation for subsequent processes.
- Efficient High-Precision Operation: The three-axis robot ensures rapid handling and precise positioning, guaranteeing production efficiency and product consistency.
- Labor Cost Reduction: The robotic arm replaces manual feeding, significantly reducing labor input and costs.
- Enhanced Safety Protection: Automation completely eliminates the risk of heat-related injuries, ensuring operator safety.
- Resource-Efficient Configuration: Supports shared loading and unloading mechanisms among multiple machines, improving equipment utilization and achieving optimal resource allocation.

展台号 Booth No. **1.1D67**

广东科腾精密机械有限公司
GUANGDONG KRATON PRECISION MACHINERY CO., LTD.



4

液态硅胶射出成型机

LSR Injection Molding Machine

液态硅胶射出成型机是专用于成型液态硅橡胶(LSR)的双组分精密注塑设备。机械结构核心区别于传统注塑机，主要包含：

- 供料系统：两个独立的A、B组分料罐，配备精确的计量泵。
- 混合与注射单元：采用静态混合器（无运动部件），在低温下将A、B组分均匀混合后注入螺杆或料筒，通过螺杆进行注射。
- 控制系统：对温度、压力、计量比例进行高精度闭环控制。
- 模具系统：通常配备冷流道系统，防止LSR在流道内固化。

工作原理：A、B两种液态组分在料罐中保持冷却（防止早期固化），通过计量泵按1:1比例精确输送到静态混合器。

The LSR Injection Molding Machine is a specialized, two-component precision system for molding liquid silicone rubber. Its core mechanical structure core differs from conventional injection molding machines and mainly includes:

- Feeding System: Two separate tanks for A & B components with precise metering pumps.
- Mixing & Injection Unit: A static mixer (no moving parts) is used to blend components at low temperature before feeding into the injection screw or cylinder.
- Control System: High-precision closed-loop control for temperature, pressure, and mix ratio.
- Mold System: Typically employs a cold runner system to prevent curing in runners.

Working Principle: The liquid A & B components are chilled in tanks to prevent premature curing. Metering pumps deliver them in a precise 1:1 ratio to the static mixer.



5 氟橡胶专用高压射出机
FKM High-Pressure Injection Molding Machine

展台号 Booth No. **1.1C71**
湖州牧马智能科技有限公司
HUZHOU MOMU INTELLIGENT TECHNOLOGY CO., LTD.




采用伺服电机控制系统，配备全自动夹取及喷涂脱模剂无人化生产，更加节能高效。注射机系统采用独特的先进先出两缸注射，配备最高3500kg/cm²注射压力，适用于氟橡胶(FKM)材料注射成型。

Servo motor control system with fully automated gripping and release agent spraying for unmanned production, delivering greater energy efficiency. The injection system features a unique FIFO (first-in-first-out) twin-cylinder design with maximum injection pressure of 3,500 kg/cm², suitable for FKM (fluororubber) injection molding.



展台号 Booth No. **1.1C60**
广州盛广誉机械设备有限公司
GUANGZHOU S-GUANGYU MACHINERY & EQUIPMENT CO., LTD.



850SD立式电动伺服双滑板机
The 850SD Vertical Electric Servo Double-Slide Machine

这款立式电动伺服双滑板机采用精准机械结构与智能控制结合的设计，专为微量硅胶制品及电子产品硅胶包覆成型打造，适配光通信、医疗、消费电子等多领域精密生产需求。

- 整机由合模机构、电动射出机构、定位机构、顶出机构等核心部件组成，配套水排通水冷却系统与气控阀组，搭配安全防护机构及操控面板，结构布局合理，运行安全稳定。
- 采用双模式交替滑板设计，在一侧模具进行射胶成型的同时，另一侧可同步完成成品取出或插件放置，大幅缩短循环周期，提升生产效率。
- 通过操控面板实现全流程参数调控，压力传感器实时感应压力信号，联动电机机构、气控阀组等部件精准完成储料、合模、射胶、顶出等动作，可实现自动化连续作业，减少人工干预。
- 配备安全光栅、安全挡板等防护装置，合模、开模等动作需满足多重位置确认条件方可启动，有效保障操作人员安全，确保设备稳定运行。

Precision mechanics integrated with intelligent control for micro-injection molding of micro-volume silicone & silicone-overmolded electronic components, serving optical communications, medical and consumer electronics industries.

- Core components: clamping, electric injection, positioning and ejection mechanisms; water-cooling, pneumatic valve group, safety protection and control panel; rational layout ensures stable operation.
- Dual-mode alternating slide: simultaneous injection on one mold & product removal/insert placement on the other; shorter cycle, higher efficiency.
- Full-process parameter control via panel; pressure sensors link motors/valves for storage, clamping, injection, ejection; auto operation, less manual intervention.
- Safety devices: light curtains, baffles; multi-position confirmation for clamping/mold opening; ensures operator safety & equipment stability.
- The intelligent HMI operating system supporting real-time data monitoring and remote control via PC or mobile APP, for convenient equipment management and production scheduling.



高端橡胶挤出设备

Advanced Rubber Extruder Maker



 优质生产
High quality production

 加工定制
Customized processing

 品质保障
Quality assurance

冷喂料挤出机 Rubber Extruder

展厅 Hall :

1.1

展位号 Booth:

1.1B75



硫化烘箱 Vulcanization oven



浙江巨恒橡塑设备有限公司

TAIZHOU HUIXIN RUBBER&PLASTIC MACHINERY CO.,LTD.

网址/ Web: www.rubberextruder.com

电话/Tel: +86-13738570087

7

110L 密炼机

110L Internal Kneader Mixer

展台号 Booth No. **1.1C66**

广东利拿实业有限公司
GUANGDONG LINA INDUSTRIAL CO., LTD.



- 高效混炼，节省时间：密炼机混炼时间短，通常只需6-10分钟，效率是滚轮机的2-3倍。采用伺服同轴分离技术，清色换料方便，转子可拆卸，清理彻底。
- 精准控制，确保质量：配备全自动温度及时间控制系统，操作精确简便，混炼分散均匀；采用进口氧含量检测仪器，确保数值精准；整机多重密封装置，不漏气。
- 安全环保，操作简便：密封式混合槽，防止环境污染，减少配合剂损失。设备坚固耐用，安装、操作及保养容易，运行能耗低。

- Efficient Mixing, Time-saving: The internal mixer has a short mixing time, usually only 6-10 minutes, with an efficiency 2-3 times that of the open mill. It adopts servo coaxial separation technology, making color change and material replacement convenient. The rotor is detachable for thorough cleaning.
- Precise Control, Quality Assurance: Equipped with an automatic temperature and time control system, operation is precise and simple, ensuring uniform mixing and dispersion. It uses imported oxygen analyzers to ensure accurate readings. The machine has multiple sealing devices to prevent air leakage.
- Safe, Environmentally Friendly, and Easy to Operate: The sealed mixing chamber prevents environmental pollution and reduce additive loss. The equipment is sturdy and durable, easy to install, operate, and maintain, and energy-efficient in terms of electricity consumption.

展台号 Booth No. **1.1D85**

衡阳华意机械有限公司
HENG YANG HUAYI MACHINERY CO., LTD.



8

HYZ-200A 橡胶注射成型机

HYZ-200A Rubber Injection Machine

- HWAYI HYZ-200A，为立式橡胶注射成型机，采用四柱结构带伸缩式喷嘴，后进先出式注射，有效避免漏料、溢料现象；结构易于维护，多相注射速度和压力设定，可适应各种模具生产需要。
- 四柱垂直结构保证机器的耐久性；多相注射压力和速度适应多模具生产；夹紧装置设计坚固，稳定性高，平行度高；西门子或B&R快速响应电气控制；PLC监控整个生产过程，300套生产配方可方便保存和USB数据传输。
- 压板温度公差在2以内，PID温度校准；可选择多脱模装置“CE认证选项可用”、“先进先出注射可用”。

The new compact design of HYZ-200A rubber injection machine, with a new industrial design and energy saving power system. Basic information as below:

- Clamping force ~200 tons.
 - Injection volume: 2000 cc.
 - Heating platen size: 550 x 550 mm Siemens high-tech control system with touch screen Standard dmoulding device suits various rubber products production Injection precision: 0.5%.
 - Plastic/injection temperature control: within $\pm 1^\circ\text{C}$.
 - Heating platen temperature control: with $\pm 2^\circ\text{C}$ Servo-driven system applied for 50% power saving. Light barrier protection for operator during mold opening.
- Features pressure compensation and temperature compensation automatically by PLC.



9

密炼机上辅机系统

Mixer Upstream Equipment (Global New Product)

展台号 Booth No. **1.1A82**

北京马赫天诚科技有限公司

BEIJING MACH TIANCHENG TECHNOLOGY CO., LTD.



- 该系统是我司在引进吸收德国、英国先进技术的基础上，针对橡胶轮胎和非轮胎橡胶制品、塑化等行业，自主研发的全智能化物料（粉料、粒料、块状料、液体料等）输送、储存、计量、配料、投料系统，可与各种不同规格密炼机 / 捏炼机 / 混合机 / 捏合机配套。
- 系统主要由粉料部分、油料部分、块状料部分、除尘部分和全程管控系统五部分组成。其中，全程管控系统将最新信息技术同生产管理、生产工艺相结合，集生产全过程控制、生产计划管理、物料管理、质量跟踪管理于一体，真正实现了管控一体；对提升管理水平、提高产品质量、保持产品稳定性起到了重要作用。全程管控系统融合最新信息技术与生产管理、工艺流程，集成全过程控制、生产计划管理、物料管理及质量跟踪，真正实现管控一体；显著提升了管理水平、产品质量与稳定性。经过我司多年不断的技术创新与完善，该系统已在国内外得到广泛应用，深受客户好评。

- Developed by our company after introducing and absorbing advanced technologies from Germany and Britain, this fully intelligent system for conveying, storing, weighing, batching, and feeding materials (including powders, pellets, bulk materials, and liquids) has been independently engineered by our R&D department. It is designed for industries such as rubber tires, non-tire rubber products, and plastization, and is compatible with various specification of mixers, kneaders, blenders and compounders.
- The system is primarily structured around five sections: Powder, Oil, Bulk Material, Dust Removal, and a Full-Process Management and Control System. Central to the operation is the Full-Process Management and Control System, which merges the latest information technology with comprehensive production and process management. It integrates entire production process control, production planning management, material management, and quality tracking management, achieving true integration of management and control. It integrates the latest IT with production management and processes, covering end-to-end control, production planning, material handling, and quality tracking to achieve integrated management and control. It significantly enhances operational efficiency, product quality, and consistency.

展台号 Booth No. **1.1C61**

上海德仁橡塑机械股份有限公司
SHANGHAI DEREN RUBBER AND PLASTIC
MACHINERY CO., LTD.



10

精密预成型机 (电脑型)

JYZ Series Precision Preformer (Computerized Type)

- 采用PLC控制和触摸屏操作界面。彩色显示屏引导用户方便地进行数据输入，并支持密码保护。
- 可储存1000种产品的工艺数据，随时调用。
- 变频电机控制切刀无级变速。
- 电子秤闭路反馈，一键校准胶坯重量。
- 可靠的安全性。机头关闭、切刀旋转、柱塞前进和后退均有互锁装置。
- 故障点图标及文字显示。
- 料筒采用脱离式结构，中心延长，便于清胶。
- 采用抽真空系统，有效减少胶坯中残余空气。
- 不锈钢输送机安全网罩，降低胶料污染。
- 报警器、料筒探照灯、切割装置密封结构、输送机正反转，可接受高端定制。
- PLC control with touch screen and color display for easy data input and password protection.
- Stores data for 1000 products, ready to use anytime.
- Variable speed cutter controlled by motor.
- Electronic scale with closed-loop, one-button weight calibration.
- Safe design with interlocks for head closure, cutter rotation, and plunger forward/backward motion.
- Faults shown with icons and text.
- Barrel with detachable structure and center extension for easy cleaning.
- Vacuum system reduces air in blanks.
- Stainless steel conveyor cover prevents contamination.
- Alarm system, material barrel spotlight, cutting device sealing structure, conveyor forward/reverse operation—accepting high-end customization.



11 自动化橡胶双螺杆挤出机再生系统

Twin-Screw Extruder Automatic Recycling Machine

展台号 Booth No. **2.2J97**

河北瑞威科技有限公司
HEBEI RICHWAY RUBBER TECHNOLOGY CO., LTD.



主要设备配置RW-95双螺杆挤出机，适配多种橡胶品种，如轮胎橡胶再生、丁基橡胶再生（包括丁基内胎、丁基胶囊、丁基橡胶瓶塞边料等）、三元乙丙橡胶和硅橡胶再生。生产工艺原理为：将橡胶粉与橡胶再生助剂、橡胶软化油混合后，加入双螺杆挤出机，通过双螺杆挤出机合适的机械剪切力，使硫化橡胶的交联键切断，恢复橡胶的线性结构，再经单螺杆挤出机冷却。对于丁基橡胶和三元乙丙橡胶的再生，无需添加任何助剂，即可完成整个再生过程。

- 自动化程度高，整条生产线仅需2名工人。
- 能在较低的温度下进行橡胶再生，环境友好；不产生废水，废气集中收集，便于治理。
- 生产的再生橡胶门尼粘度较低，再生反应彻底。
- 拆装维修方便，元件更换操作简单。
- 产量600-700公斤每小时。

The main equipment is equipped with RW-95 twin-screw extruder, suitable for various types of rubber regeneration, such as tire rubber, butyl rubber, EPDM and silicone rubber regeneration. Mix the rubber powder with rubber regeneration additives and softening oil, then feeding the mixture into the twin-screw extruder. The appropriate mechanical shear force of the twin-screw extruder breaks the cross-linking bonds of the vulcanized rubber, restoring its linear structure, followed by cooling via a single-screw extruder. For butyl rubber and EPDM regeneration, the process can be completed without any additives.

- High degree of automation; the entire production line requires only 2 workers.
- Rubber regeneration operates at relatively low temperatures, environmentally friendly; no wastewater is generated. Waste gas is centrally collected for easy treatment.
- The produced reclaimed rubber has a low Mooney viscosity, with a thorough regeneration reaction.
- Easy disassembly and maintenance.
- Output capacity: 600kg/h.

展台号 Booth No. **2.2G97**

河北中森机械制造有限公司
HEBEI ZHONGSEN MACHINERY MANUFACTURING CO., LTD.



12 复合胶管挤出机

Composite Hose Extruder

属于橡胶管机械生产线，可以挤出两种颜色或者两种材质，其核心性能体现在挤出稳定性、塑化均匀性和生产效率上，能精准控制胶料的熔融、输送与成型，适配多层胶料共挤，挤出量波动小，温控精度高，可保障胶管壁厚均匀。

- 可实现天然橡胶、丁腈橡胶、硅胶等多种胶料的塑化挤出，支持双层不同材质复合胶管的一次成型。
- 搭配牵引、硫化、切割等辅机，完成复合胶管从原料到成品的连续化生产，可按需调整挤出速度，以适应不同规格胶管。
- 具备螺杆转速、温度等参数的可调性，可满足不同口径、壁厚复合胶管的加工需求，适配汽车、液压、化工等领域的胶管生产。

Designed for rubber hose production lines, the machine can extrude dual-color or dual-material hoses. Its core performance is reflected in extrusion stability, plastization uniformity, and production efficiency. It precisely controls the melting, conveying, and molding of rubber compounds, accommodate multi-layer rubber compound co-extrusion, exhibits small fluctuations in extrusion output, and ensure uniform wall thickness of the hose due to high temperature control accuracy.

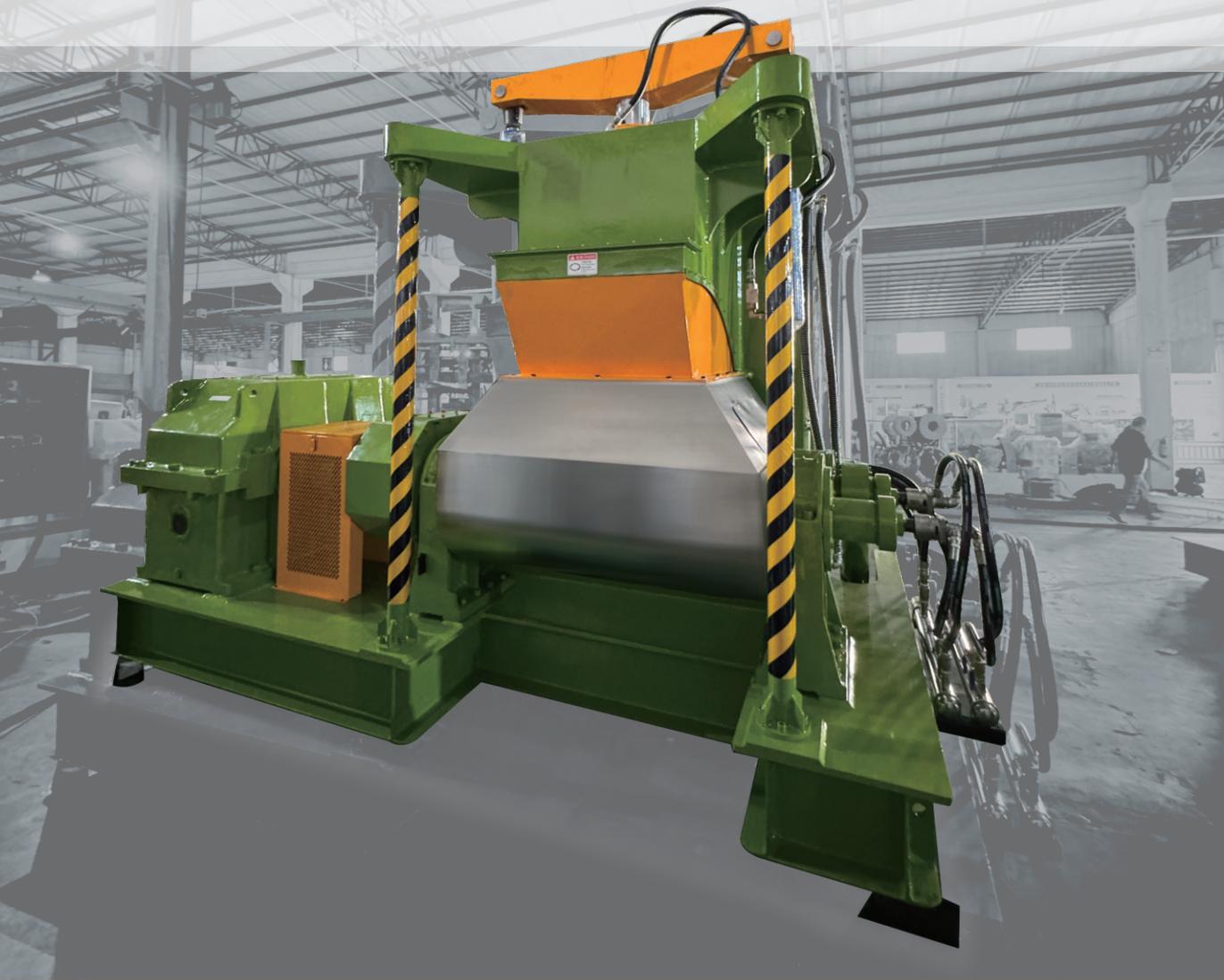
- Supports plasticization and extrusion of various rubber compounds, including natural rubber, nitrile rubber, and silicone rubber, and enables the one-time molding of composite rubber hoses with two layers of different materials.
- Equipped with auxiliary machines such as pulling, vulcanization, and cutting units, it completes the continuous production of composite hoses from raw materials to finished products. The extrusion speed is adjustable to accommodate hoses of different specifications.
- Featuring adjustable parameters such as screw speed and temperature, it meets processing needs for composite hoses with varying diameters and wall thicknesses, and is applicable to hose production in automotive, hydraulic, chemical, and other industries.





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LINA MACHINERY, Making Your Laboratory And Factory Per Fect And Smart!



展位号 1.1C66

BOOTH NO. 1.1C66

广东利拿实业有限公司

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