

SHOW DAILY

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CHINAPLAS 2026 opens today! Collaborate to drive new, smart, and green growth

As 2026 marks the beginning of China's 15th Five-Year Plan, this year's CHINAPLAS emphasizes the cultivation of emerging sectors, the enhancement of high-level openness, and the promotion of intelligent, green, and integrated development under the theme "Transformation • Collaboration • Sustainability".

The leading international exhibition for the plastics and rubber industries officially opens today at the National Exhibition and Convention Center (NECC) in Hongqiao, Shanghai, China. The exhibition spans an impressive exhibition area of over 390,000 square meters across 16

exhibition halls.

From today until Friday, April 24, around 5,000 leading global exhibitors come together under one roof to showcase their cutting-edge technologies in response to market demands.

In addition to eight pavilions representing countries and regions—including Austria, France, Germany, Italy, Japan, Switzerland, the UK, and the Taiwan Region (China)—Adsale Exhibition Services Ltd, the exhibition organizer, has established 17 themed zones throughout the exhibition halls.

Emerging sectors expanding application horizon

The development potential of strategic clusters in emerging sectors, such as new energy, aerospace, and the low-altitude economy, is a key focus of the 15th Five-Year Plan. These sectors are rapidly expanding the application of plastics and rubber, unlocking new growth opportunities for this vital manufacturing pillar and transforming the industries' development trajectory.

In the new energy vehicle (NEV) sector, advancements in materials for batteries, charging infrastructure, and drive systems are leading the way. CHINAPLAS exhibitors like DOMO Chemicals, SABIC, Syensqo, Rianlon, and Shanghai PRET have introduced advanced materials that enhance performance, durability, safety, and comfort in NEVs.

DOMO Chemicals (Booth: 7.2D54) presents TECHNYL® ONE, a halogen-free, flame-retardant PA66/6T reinforced with 30% glass fibers. This UL Yellow Card certified material offers top-tier performance, with high fluidity that ensures excellent productivity and design flexibility. It is currently employed in the 500kW supercharger connectors of a leading electric vehicle maker.

Meanwhile, RIANOX® 686 is a high-performance phosphite antioxidant produced by **Rianlon Corporation (Booth: 8.2F22)**. Its low volatility, high thermal stability, and

(Continues on P.2)



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STEADY –

Involving Multiple Layers
Of Complexity

PRECISE –

Exhibiting Consistency
In Quality And Form

New generation multi-layer
co-extrusion blown film diehead
Precise · Efficient · Energy-saving · Sustainable ·

(Continued from P.1)



DOMO Chemicals' TECHNYL® ONE J 60X1 V30 ORANGE is successfully used in demanding EV applications.

exceptional hydrolysis resistance make it an ideal choice for polymers used in high-temperature, high-humidity environments, including electric vehicle batteries, charging stations, electronics, and their associated components.

The low-altitude economy, projected to undergo significant growth in 2026 due to policy support, technological advancements, and market demand,



Evonik's ROHACELL® PMI foam enables lightweight designs for eVTOL.

is transforming logistics, tourism, and emergency rescue operations.

Plastics and composites are becoming essential in this trillion-RMB market. Exhibitors such as Covestro, Evonik, Kingfa, and Nanjing Julong showcase the latest material innovations in this sector.

ROHACELL® PMI foam of **Evonik (Booth: 7.2C31)**, known for its ultra-lightweight and high-strength properties, is an ideal choice for structural components in electric vertical take-off and landing aircraft (eVTOL).

This material allows aviation manufacturers to achieve lightweight designs without compromising safety, thereby supporting the growth of green air mobility.

Featuring high glass-fiber content and V-0 flame retardancy, KingPan® flame retardant composite panels of **Kingfa Sci. & Tech. (Booth: 7.2C66)** can withstand 1,200°C fire exposure for 30 minutes without dripping. They self-extinguish within 10 seconds of flame removal, making them suitable for critical eVTOL components.

Humanoid robots are set for significant commercialization in 2026, driven by advancements in specialty engineering plastics like PEEK and PPS.

These materials are increasingly utilized in robot joints, gears, and bearings, while TPE is excellent for flexible components such as artificial muscles and skin.

Exhibitors at CHINAPLAS, including Dawn Group, Lushan New Materials, and Wankai New Materials, are leading the way with their innovative developments in robotic materials.

Smart and green transformations fuel development

The 15th Five-Year Plan calls for the comprehensive implementation of the "AI+" initiative, aimed at leveraging artificial intelligence (AI) across various industries. AI technologies are addressing inefficiencies in traditional manual quality inspections by accurately detecting micron-level defects and continuously refining inspection standards.

Good Vision & Motion (Booth: 8.1A82) has developed GoodVisionUI, a printing quality inspection software for high-speed image processing. This AI-driven tool enhances image learning and prediction capabilities, enabling intelligent classification of defects. Key features include convolutional scanning, pooling, feature data flattening, self-learning, false defect filtering, and intelligent prediction.

At the fairgrounds, other exhibitors,



The GoodVisionUI software developed by Good Vision & Motion enhances printing quality inspection capabilities through AI.

including ENGEL, motan, and Jeenar, also showcase their AI-powered manufacturing solutions.

The 15th Five-Year Plan also emphasizes a comprehensive green transformation. The plastics and rubber industries play a pivotal role in driving circular development, fostering an ecosystem that encompasses production, use, recycling, and regeneration.

At CHINAPLAS 2026, the spotlight is on recycled plastics, bio-based and degradable materials, recycling technologies, digital solutions, and energy-efficient equipment.

A global platform for exchange and collaboration

Currently, Chinese plastics and rubber enterprises are evolving from a focus on "products going global" to "industrial chains going global". In the meantime, foreign investment in China is rising.

In this climate of globalization, international trade platforms are more important than ever. CHINAPLAS acts as a key hub for face-to-face technical exchanges and business matchmaking, breaking down information barriers and promoting collaboration. It connects Chinese enterprises with overseas markets and provides foreign companies with insights into China's manufacturing and innovation capabilities.

With decades of influence and success, CHINAPLAS remains the premier global meeting place for the plastics and rubber industries, attracting exhibitors and buyers from around the world.

TK Group: One-stop molding solutions fuel precision manufacturing



5.2G18

At CHINAPLAS 2026, TK Group showcases its comprehensive molding solutions designed for five key markets: consumer electronics, automotive, medical, packaging, and personal care. The display highlights the company's full range of capabilities, from mold design and manufacturing to precise injection molding and secondary processing.

Godsend Lu, CEO of TK Group, notes that the exhibits demonstrate the company's awareness of the manufacturing industry's rapid evolution toward higher integration, precision, and sustainability.

As product structures grow more complex and quality standards continue to rise, customers increasingly seek systematic partners capable of reliable and consistent delivery.

Digital precision molds: Foundation for high-standard manufacturing

In mold manufacturing, TK Group excels in two main areas: multi-cavity and large, complex molds. The company achieves processing precision of 0.002 mm for molds with 128 cavities or more while maintaining production efficiency and stability. For large, complex molds found in the automotive and home appliance sectors, it consistently controls precision at 0.005 mm.

These capabilities are supported by TK Group's ongoing investment in digital processing lines and a well-established operational framework, ensuring high



Godsend Lu, CEO of TK Group.

consistency in mass production.

Injection molding solutions: Meeting complex application requirements

In the injection molding process, TK Group offers a full range of services, from structural analysis and mold development to mass production and surface treatment.

The company has successfully integrated multiple cutting-edge molding technologies into actual production, including liquid silicone rubber (LSR) injection, in-mold electronics (IME), conformal antennas, multi-color/hybrid injection, compression molding, and precision insert injection.

These technologies are integrated to enhance product functionality, optimize structure, and improve manufacturing efficiency, helping customers achieve higher reliability and consistency under complex design conditions.

“As product structures grow more complex and quality standards continue to rise, customers increasingly seek systematic partners capable of reliable and consistent delivery.”

Technological directions converging across sectors

TK Group has observed that although applications vary across sectors, the technological directions are converging.

In the automotive sector, integrated large structural parts have become a key focus, necessitating higher demands for molds exceeding 100 tons, complex cavity designs, and gas-assisted, water-assisted, and microfoaming injection processes.

The consumer electronics sector increasingly relies on mold flow analysis, multi-color/multi-material injection, and LSR technologies. Additionally, 3D-printed conformal cooling channels are becoming crucial for enhancing efficiency.

The medical sector is rapidly advancing towards high levels of automation and precision, including automated lines in cleanrooms, ultra-high-cavity molds, and online visual inspection.

IMSE and AI empowering high-value manufacturing

As a tier-two partner in the automotive supply chain, TK Group supplies in-mold structural electronics (IMSE) electrical functional films and offers comprehensive IMSE product design and manufacturing services for OEM customers in the consumer, industrial, and medical sectors.

Leveraging its experience in in-mold labeling (IML), multi-shot molding, and embedded molding, the company is expanding its high-volume capabilities in 2K/3K and film insert molding to deliver lighter, more sustainable components equipped with advanced lighting and HMI functions.

In smart manufacturing, TK Group has integrated AI and big data analytics into critical processes like production scheduling, quality inspection, and automated assembly, significantly enhancing efficiency and quality stability. The company plans to continue investing in cutting-edge technology R&D.

Global strategy to navigate uncertainties

In international markets, TK Group has experienced steady growth in the consumer electronics sector, featuring a diverse range of products from smartphones and wearables to portable imaging devices and AR glasses.

Godsend Lu remarks that while there are clear signs of market recovery, intensified competition and uncertainties in the international trade environment remain. To enhance supply chain resilience, TK Group has decentralized geographic risks by expanding its capacity in Vietnam, enabling more flexible production solutions.

Level Up!

Your Advantage



Hall 5.1C32



Sun Chemical leads the way in pigment innovation and compliance



8.2F37

Every challenge presents an opportunity. The plastics and pigment industry, despite facing relatively low market growth in Western countries, increasing regulatory requirements, changing market environments, and overcapacity in certain areas, is poised to enforce higher efficiencies and cost consciousness.

At the same time, stricter environmental laws and consumer concerns are driving markets towards green solutions such as reuse and recycling, high-purity pigments, heavy metal-free options, low-VOC alternatives, and biodegradable materials.

Industries like automotive, packaging, and electronics are demanding improvements in weather, chemical, and heat resistance, color strength, and advanced functions like near-infrared (NIR) properties. These needs are accelerating the development of high-performance pigments, which in turn drive growth and structural breakthroughs.

Against this backdrop, Dr. Christof Kujat, Sun Chemical's Global Head of Industry Segment Plastics, summarizes his view of the market in 2026: "The plastics and pigment industry is in a transformation and restructuring phase; sustainability is no longer optional; it is essential for survival."

He anticipates that the industry will undergo more mergers and acquisitions, while supply chains will increasingly focus on regional markets such as North America, the EU, and Asia to avoid tariffs and improve service.

Sustainability and innovation: Twin engines propelling growth

According to Dr. Kujat, multiple factors are driving the industry forward. Firstly, the surging demand for high-performance pigments in downstream sectors such as packaging, automotive, and electronics is expected to boost revenue growth. Traditional sectors like automotive, packaging, construction, textiles, and footwear continue to expand, while the rise of new energy vehicles is creating fresh demand for lightweight, durable materials.

In addition to end-use demand,



Dr. Christof Kujat, Global Head of Industry Segment Plastics, Sun Chemical.

three major trends are reshaping the industry: circular economy practices, high-performance material innovation, and sustainability mandates, all pushing it toward higher-end, greener production.

He points out that as the circular economy develops, technologies such as plastics recycling (including packaging designed for recyclability and an increasing content of recyclates), biodegradable materials, and high-purity products are critical for addressing environmental pressures and meeting global sustainability goals.

Regarding material substitution and performance upgrades, he notes that plastics are replacing metals and glass in countless applications due to their lightweight properties, corrosion resistance, and cost-effectiveness. Innovations like microfiber materials are also rising to meet consumer demand for comfort in sportswear, footwear, and outdoor gear.

Finally, a significant boost comes from technological innovation, including smart manufacturing and advanced material R&D, coupled with global expansion.

Strategies to enhance competitiveness

Faced with these challenges and opportunities, Sun Chemical is building a competitive edge by focusing on

"The plastics and pigment industry is in a transformation and restructuring phase; sustainability is no longer optional; it is essential for survival."

sustainable pigments, functional solutions, and digitalization.

At the foundational level, Sun Chemical has been offering risk-assessed and food-contact compliant pigments since 2014, a full 12 years ahead of the market. These high-purity products minimize non-intentionally added substances (NIAS) and align with global food safety and environmental regulations. For compostable packaging, its EN 13432-certified biodegradable pigments meet the strictest degradability standards.

In the context of the circular economy, the company's Sicopal Black K 0098 stands out due to its thermal stability, allowing it to withstand repeated processing even in engineering plastics. This product replaces traditional carbon black in dark plastic recycling while meeting global food-contact standards, including China's GB 9685, effectively addressing the critical polymer-sorting challenge for recycled materials.

Sun Chemical's innovative functional pigments can transform traditional pigments from simple colorants into "functional carriers" that add tangible value to plastic parts. For e-mobility, a wide selection of pigments and dyes in the orange color spectrum is available for efficiently coloring high-voltage components of electric vehicles (EVs).

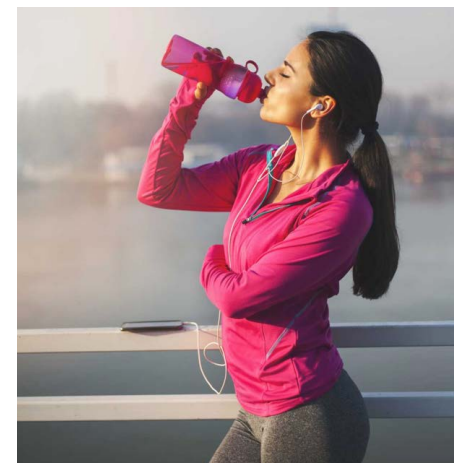
Other innovations include NIR light management pigments that enable light detection and ranging (LiDAR) sensors and laser welding, as well as Benda-Lutz® Compal K aluminum pigments for automotive design, which deliver metallic finishes—from silky to high-shine—without the use of carbon black.

Additionally, intelligent control systems and big data analysis have become industry standards. The concept of "digital pigments" is now in practice. The company's digital tools, PigmentFinder/PigmentViewer, automatically recommend pigment formulations and processing parameters based on customer specifications, integrating hardware and software.

Products that exceed standards

At CHINAPLAS 2026, Sun Chemical showcases pigments designed for sensitive applications, emphasizing high purity and global compliance, as well as high-temperature/high-dispersion solutions and functional pigments that drive next-generation applications.

Highlights include fiber applications featuring Filter Pressure Value (FPV) specified, OEKO-TEX® and ZDHC Level 3 compliant pigments, which provide one-stop solutions for clean, vibrant fiber coloring. The company's newly launched FASTOGEN® PINK K 4430 FP is a quinacridone Pigment Red 122, with a built-in specification of FPV at 5µm, making it ideal for fine fiber production and low-warpage injection molding.



FASTOGEN® PINK K 4430 FP is well-suited for fine fiber production and low-warpage injection molding.

For food-contact materials, Sun Chemical's high-purity pigments meet the strictest standards, including EU Article 3 compliance, the latest EU regulation 10/2011 (19th amendment), and NIAS levels well below industry benchmarks. "This is not just about regulation—it is our commitment to securing end-consumer health," Dr. Kujat emphasizes.

Teijin develops solvent-based recycled polycarbonate resin

Debut



7.2C54

Teijin Limited is employing solvent-based recycling to produce high-quality recycled polycarbonate (PC) resin that matches the quality of virgin resin.

This innovative recycling technology utilizes solvents to dissolve waste PC resin, separating pure polymers from contaminants such as surface coatings. It addresses challenges like material degradation in mechanical recycling and the high costs and carbon emissions associated with chemical recycling.

The expansion of recycled material usage has become a pressing issue, particularly in Europe, where a new End-of-Life Vehicle (ELV) regulation has been finalized. This directive mandates the inclusion of recycled plastics from ELVs in the manufacturing of new cars.



Molded product incorporating recycled PC resin produced using solvent-based technology.

PC resin is prized for its transparency and impact resistance, making it suitable for a wide range of applications, including automotive parts and electrical components. However, waste PC resin often contains contaminants that can negatively impact the

properties, clarity, and aesthetics of the recycled material.

To tackle this issue, Teijin is developing solvent-based recycling for waste PC resin obtained from sources like ELV headlamps.

Benefits of solvent-based recycling

Teijin processes PC resin that has already undergone conventional mechanical recycling steps, such as crushing and washing, but is unsuitable for applications requiring high transparency.

The company dissolves this material in solvents and removes impurities, converting it into reusable polymers. This process allows Teijin to reclaim materials with properties, including transparency, comparable to virgin PC.

The PC resin produced through solvent-based recycling exhibits high

transparency, making it suitable for closed-loop and horizontal recycling—for instance, recycling discarded vehicle headlamps into new headlamps or other transparent components. This approach promotes the adoption of recycled materials and supports compliance with upcoming regulations.

Moreover, since the solvent-based process does not involve breaking materials down to their chemical components, it helps keep costs lower compared to PC resin produced via chemical recycling. Additionally, solvent-based recycling requires fewer process steps, contributing to reduced CO2 emissions.

Teijin aims to commercialize PC resin produced through solvent-based recycling by the fiscal year 2026. The company will also continue research and development efforts to further enhance the quality of PC resin generated through this method.

Cleanroom Production for Conical-Bottom Centrifuge Tubes

Automated Injection Molding Solutions



Cleanroom Special-Purpose Machine for Medical Industry
ELETTRICA-E Series



Live Demonstration: Automated Injection Molding Solution



Conical-Bottom Micro Centrifuge Tubes

Cavities: 1×16

Injection Molding Machine Model: ELE100



For more information, please visit us at Booth 4.1.D32.



Griffin New Energy: Carbon nanotubes to gain edge in transformation



8.2K61

Applications: New energy, automotive, construction

The global economy continues to face multiple challenges, including geopolitical conflicts and the restructuring of supply chains. As a high-tech enterprise specializing in the research, production, and sales of carbon nanomaterials, Foshan Griffin New Energy Co., Ltd. holds a cautiously optimistic outlook for the development of the plastics and rubber industries in 2026.

Luo Weizhao, Sales Manager at Griffin New Energy, notes that the industry is currently experiencing opportunities for green transformation and technological advancement. Carbon nanotubes (CNTs), as a new type of high-end material, are injecting new momentum into the high-quality development of various sectors.

Technology trends: Carbon nanotubes support transformation

Griffin New Energy prioritizes innovation and sustainability as its core competitive strengths. Leveraging the unique properties of CNTs, the company offers solutions for industrial transformation, anchored in three key aspects.

First, supporting green sustainability. CNTs have exceptional electrical conductivity, requiring only 1/5 to 1/15 the amount of traditional conductive carbon black. This lower dosage effectively preserves the original properties of bioplastics and mono-material substrates, without impacting their recyclability.



Luo Weizhao, Sales Manager, Foshan Griffin New Energy Co., Ltd.

This aligns perfectly with the design concepts of "mono-material" and "high performance".

Second, empowering smart manufacturing. The low addition level of CNTs ensures that materials exhibit excellent impact performance and processing fluidity. This makes it easier for materials to fill molds during injection molding, allowing them to meet the high precision and aesthetic quality requirements of smart manufacturing.

Third, achieving maximum efficiency. CNTs provide long-lasting stable conductivity and antistatic properties in plastics, suitable for applications like automotive fuel systems and electronic component packaging. They also enhance material toughness, wear resistance, and thermal stability, enabling multifunctional composite integration and helping downstream customers create more competitive high-end products.

“ CNTs have always been a hot topic in research and have a wide range of applications. In every industry, the first to effectively use this new high-end material will seize developmental opportunities and gain a market advantage. ”

Scalable development and application expansion

In 2026, Griffin New Energy will focus on expanding production of single-walled carbon nanotubes (SWCNTs) while reducing costs for multi-walled carbon nanotubes (MWCNTs).

The company currently has stable production capacity and is capable of mass-producing SWCNTs. Monthly output of SWCNTs has reached the ton scale, and ongoing expansion projects aim to increase this to 10 tons per month by the end of the year. For MWCNTs, the monthly production target of over 100 tons has already been achieved.

The core applications for CNTs are currently concentrated in the field of conductive additives for lithium batteries. Technology is evolving toward higher specific surface area, greater aspect ratios, and improved dispersion, making their use in the plastics industry as a substitute for traditional carbon black increasingly prevalent.

"Our future goals are to continuously enhance product quality, scale up production, and accelerate the expansion of application scenarios. We want more companies to recognize and utilize CNTs, fully leveraging the unique advantages of these materials to improve product

performance and quality," emphasizes Luo.

He concludes, "CNTs have always been a hot topic in research and have a wide range of applications. In every industry, the first to effectively use this new high-end material will seize developmental opportunities and gain a market advantage. Currently, we are also actively promoting the development and application of CNTs in conductive plastics, rubber, coatings, and other fields to help more industries achieve transformative upgrades."



More companies are adopting carbon nanotubes as an alternative for traditional carbon black.

LCY transforms into innovator to meet demanding applications



6.2C71

A leading global chemical supplier with a strong manufacturing and R&D footprint across China, the US, and Canada, LCY CHEMICAL CORP centers its business on three strategic pillars: Performance Polymers & Circular Materials, Sustainable Technology & Decarbonization, and Semiconductor & Interconnect Materials.

"Across Asia, I expect a two-speed market. Southeast Asia and India continue to expand manufacturing capacity and consumer demand, which supports polymers for packaging, home appliances, infrastructure, and mobility," says TH Hong, Chairman of LCY CHEMICAL CORP.

High-performance solutions under CHINAPLAS spotlight

At CHINAPLAS 2026, LCY showcases its transformation from a traditional chemical producer into a science-driven innovator, presenting a suite of high-performance solutions for demanding applications.

The company unveils Globalprene 9430, a high oil-extended TPE. With excellent oil-holding capacity, these grades deliver a premium soft-touch surface with natural rebound for a more comfortable, skin-friendly feel. Beyond aesthetics, they offer enhanced elasticity and improved resistance to tearing and permanent deformation, making them ideal for children's toys, stress-relief products, and



TH Hong, Chairman of LCY CHEMICAL CORP.

Another highlight is the Globalene 1055RC and 4055RC TPV concentrates, designed for high-performance TPV/SEBS hybrid compounds. These products support flexibility and local adaptation that allow compounders to develop customized TPV and TPV/SEBS hybrid formulations to suit different processing conditions and performance targets. This versatility enables broader adoption in applications where precise property tuning, production efficiency, and consistent quality are critical.

For medical applications, LCY features Globalene 6881, a PP homopolymer engineered for gamma sterilization. Extended to high-precision lab applications, the product combines high flowability with

“ Across Asia, I expect a two-speed market. Southeast Asia and India continue to expand manufacturing capacity and consumer demand. ”

exceptional transparency, making it an ideal choice for injection molding.

Globalene 6881 has been successfully applied in the production of pipette tips, which are essential for accurate reagent dispensing in laboratory testing. These tips require high mechanical stability and must remain safe and reliable following sterilization. Globalene 6881 maintains its performance under high-throughput testing conditions without compromising diagnostic accuracy.

In addition to performance materials, LCY also offers a strong portfolio of wet chemicals and formulations under its Semiconductor & Interconnect Materials business.

Continuing commitment to high-performance innovations

On the future of the plastics industry, LCY maintains a cautiously optimistic view, shifting its strategic focus toward high-value applications.

"China will likely be more selective than in past up-cycles. We may see slower growth in traditional commodity segments, contrasted by stronger demand in areas tied to industrial upgrading: EVs and batteries, electronics, renewable energy,

and high-specification packaging," says Hong.

"Competition will remain intense, and margins will depend on product differentiation, stable feedstock strategies, and customer proximity," he adds.

Over the next few years, LCY will advance its high-performance polymer platforms across TPE and PP, prioritizing applications where material performance, qualification, and long-term reliability create tangible value.

Development priorities include medical and hygiene materials, advanced footwear systems, humanoid robotic skin, and soft-touch solutions. Additionally, the company will target AI- and 5G-related electronics applications, supported by integrated material design and close collaboration with downstream partners.

As the automotive industry drives toward lightweighting and higher safety standards, LCY will focus its advanced composite materials development on compounding and system-level solutions. These innovations support lightweight mobility, functional modification, and next-generation consumer and industrial applications.

WITTMANN presents a made-in-China machine for the first time

Debut



4.1D41

For the first time in Asia, the WITTMANN Group presents an injection molding machine—the all-electric EcoPrimus—from now on is being produced at the company's own facility in China.

EcoPrimus producing functional key rings

Specifically designed for high-volume single-component compact injection molding, the new all-electric EcoPrimus injection molding machine boasts a clamping force of 1000 kN, delivering high precision, efficiency, and cost-effectiveness. During the exhibition, an EcoPrimus 100/350 demonstrates its exceptional performance by producing functional key rings made of PS.

The EcoPrimus features a robust and compact design that ensures easy



At CHINAPLAS 2026, the new all-electric EcoPrimus injection molding machine is presented in Asia for the first time.

operation. Like all current injection molding machine series from WITTMANN, it is equipped with the latest Unilog B8X machine control system.

EcoPower producing LSR sealing rings

Another live machine demonstration is the EcoPower 110/210 producing liquid silicone rubber (LSR) sealing rings in a 16-cavity mold with a single shot weight of 1.7 grams.

The all-electric EcoPower demonstrates precision, efficiency, and cleanliness. It achieves high injection speeds and high dynamics and enables extremely precise control. Servo direct drives and the use of braking energy using WITTMANN KERS technology reduce energy consumption to a minimum.

MicroPower producing vascular clips

Occupying just two square meters of production space, the MicroPower is ideal for molding small and micro parts. Its design allows the injection piston to reach the parting line of the mold, minimizing the mass cushion and significantly reducing the sprue. This results in higher material efficiency and improved quality consistency, as pressure is transferred over a very short flow path.

At the fairgrounds, a MicroPower 15/10 will produce vascular clips made of POM, with each part weighing only 0.003

g in a 4-cavity mold. The micro parts are demolded by an integrated vertically arranged SCARA robot and quality-checked by a camera within the self-contained work cell. The good parts are sorted and deposited by cavity.

The work cell is equipped with a laminar flow box to ensure production under Class 7 cleanroom conditions in accordance with ISO 14644-1.

Primus robot with increased load capacity

In the area of automation, WITTMANN's new Primus 118 makes its Asian premiere. This linear robot expands the range of applications for injection molding machines with clamping forces of up to 250 tons. While the maximum payload in this size range was previously five kilograms, the Primus 118 now offers a maximum payload of up to eight kilograms.

A new design featuring reinforced demolding and vertical axes, along with strengthened drives, enhances the high performance of the Primus 118. The robot accommodates up to ten valve slots, allowing for various combinations of gripper and vacuum circuits, with the capability of supporting up to eight vacuum circuits.

The Primus 118 operates with WITTMANN's proven R9 robot controller, which includes an OPC UA interface as standard for seamless data exchange with an MES and for editing and saving programs on a PC.



LSR sealing rings produced by an all-electric EcoPower.

Temperature control units and granulators

In the exhibition area for auxiliaries, WITTMANN displays a range of equipment, including temperature control units, water flow regulators, dryers, vacuum loaders, and granulators for in-house recycling.

The temperature control units from the Temprow basic series are suitable for applications that require precise temperature regulation and high operational comfort while focusing on the essentials. The new size 120 has been developed specifically for large consumers.

The G-Max XL granulator demonstrates how easily valuable raw materials can be obtained from sprues and production waste. The compact granulators in the G-Max series are suitable for processing soft to medium-hard plastics such as PP, PE, ABS, PU, and PC.

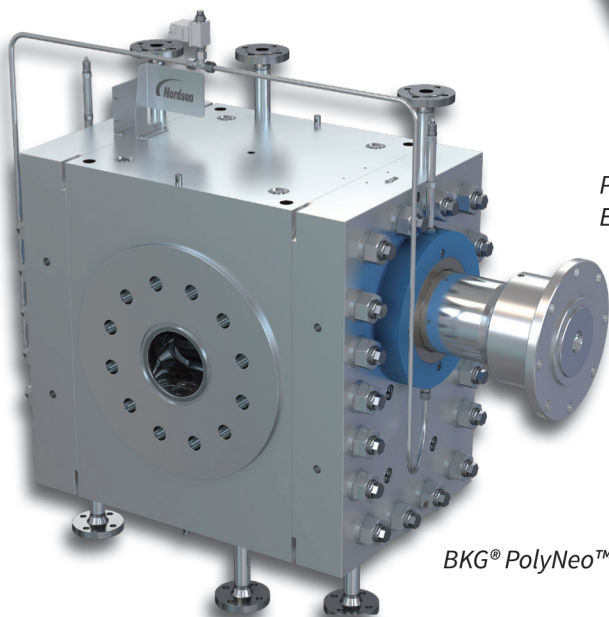
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VISIT US IN HALL 6.1

BOOTH
C61



Prodigi™ Motorized Lip Actuator System for Extrusion & Fluid Coating Dies



BKG® PolyNeo™ Polymerization Extrusion Pump

Innovative Technology Solutions for Your Process

Nordson

Polymer Processing Systems

Kingfa: From materials to solutions with overseas and green investment

The global economy is turbulent and fast-changing, yet China's emerging sectors are on the cusp of rapid expansion. As a leading Chinese advanced materials company, Kingfa's moves draw close market attention.

Recently, Rita Chu, Vice Chairman of Adsale Group, visited Kingfa's headquarters to meet with CEO James Wu. Their wide-ranging discussion covered overseas expansion, supply chain disruption, emerging markets, green materials, and Kingfa's strategic direction and growth objectives.

James Wu currently serves as CEO of Kingfa Science & Technology Co., Ltd. He holds a master's degree in Materials Science from South China University of Technology and an EMBA from the School of Economics and Management at Tsinghua University. Wu joined Kingfa in 2010 and has held a series of roles, including Regional Manager, and later Director and Deputy General Manager of the company.

James Wu
CEO, Kingfa Sci. & Tech. Co., Ltd.



Rita Chu
Vice Chairman, Adsale Group

Rita Chu pursued her studies at Northwestern University in the US, as well as London School of Economics in the UK. A certified accountant, she joined the Adsale Group in 2010 and became the Vice Chairman of the Group in 2019.

Overseas expansion and end-to-end solutions capability

Chu: Many of Kingfa's overseas plants have already begun operating. How would you assess the progress of Kingfa's overseas expansion?

Wu: Kingfa's overseas expansion is marked by heavy investment, fast execution, and strong momentum. Vietnam was the first site to complete construction and start operations, and Mexico and Poland will follow.

Tariffs and supply-chain disruption risks are pushing Fortune 500 companies to expand localized sourcing, driving our accelerated overseas footprint. We are also in active discussions with multiple Fortune 500 customers that are seeking to leverage our global supply chain capabilities.

Chu: While expanding in scale, how does Kingfa balance market share with profitability?

Wu: We rely on two key strategies. First, we optimize the product mix. Standard products face intense competition, so we cannot rely on price increases alone. We therefore invest more in R&D and grow higher value-added categories

such as engineering plastics and specialty engineering plastics to increase their revenue share.

Second, we improve operational efficiency by reducing internal costs and implementing "eliminating waste and simplifying processes". This two-pronged approach helps improve profitability.

Chu: Given the current opportunities and challenges, what is Kingfa's development direction?

Wu: At this stage, Kingfa is focused on evolving from a materials supplier and solutions provider into an end-to-end solutions provider. In automotive, we move from supplying materials for individual components to providing complete lightweighting solutions for entire vehicles. In home appliances, we go further upstream into product design and collaborate with customers to identify consumer needs.

Chu: How does Kingfa build its end-to-end solutions capability?

Wu: It starts with resource integration. Kingfa's advantage is its broad range of material categories and a highly complete material system—from general-purpose

plastics to engineering and specialty engineering plastics.

To ensure integration works in practice, we have established a dedicated industry technology division and formed an expert team. Externally, they monitor industry trends and customer needs; internally, they coordinate materials and solution resources. This structure enables Kingfa to deliver end-to-end solutions.

Opportunities in new racetracks, NEVs, and home appliances

Chu: How do you view the growth potential of emerging sectors such as the low-altitude economy and humanoid robotics? What is Kingfa's business approach in these areas?

Wu: Kingfa has already begun supplying materials to leading companies and is positioned as a mature materials solutions provider in these sectors. However, the market has not yet reached large-scale adoption and remains at an early stage. Once adoption accelerates, we expect these sectors to provide remarkable momentum for our growth.

Chu: New energy vehicles (NEVs) are a core application area for modified plastics. Has this market already peaked? What are Kingfa's key strategies in this field?

Wu: The market has not peaked. In China, NEVs have already surpassed 50% penetration. Going forward, growth will depend mainly on two factors.

First is product competitiveness. If technologies such as fast charging and solid-state batteries can effectively increase the range, the market share can rise significantly.

Second is policy direction. China lacks petroleum resources and relies heavily on crude oil imports. From a national strategic perspective, NEV's development will

continue to be promoted.

In overseas markets, NEVs are increasingly positioned as "smart vehicles". Consumers care more about intelligence and comfort than the energy type. This trend is irreversible, and the market opportunity remains significant.

Chu: What share of Kingfa's revenue comes from NEV-related business?

Wu: The automotive business accounts for about 40% of Kingfa's modified-plastics revenue. Within that, NEV-related business makes up approximately 50% of the automotive business, meaning it has a clear and meaningful impact on Kingfa's overall business.

Chu: Beyond NEVs, what other application areas does Kingfa consider to have strong growth potential?

Wu: In end-use markets for modified plastics, home appliances are the second-largest sector after automotive. In emerging regions such as India, Africa, and Southeast Asia, rising living standards are supporting steady growth in home appliance demand.

In China, growth is supported by the expanding middle class. Leading brands are placing greater emphasis on consumer experience and emotional value, integrating digital features and AI capabilities into product upgrades. This trend creates substantial opportunities for our materials.

Investing long-term in bio-based and recycled plastics

Chu: From what I understand, bio-based materials are one of Kingfa's key R&D priorities. Is this mainly driven by current market conditions, or is it part of Kingfa's long-term strategy?

Wu: It's a long-term strategic commitment.



Kingfa's halogen-free, flame-retardant enhanced PA66 is widely used in new NEVs.

Both domestic and overseas markets are actively promoting bio-based materials, and Kingfa has been developing them for some time. Related products have already entered mass production. At the same time, recent military conflicts have underscored the risks of over-relying on fossil feedstock supply. Bio-based materials help address both environmental and energy-supply risks.

Chu: Will the price gap between bio-based materials and conventional materials persist?

Wu: No. Once bio-based materials achieve large-scale adoption, prices will inevitably drop. Their current premium mainly reflects higher production costs. When bio-based material costs approach those of petroleum-based plastics, market demand should grow quickly.

Chu: How does Kingfa view the development of recycled/recyclable plastics and bio-based materials? And how does Kingfa help customers feel confident in using them?

Wu: Bio-based materials, recycled/recyclable plastics, and petroleum-based plastics show a shift toward diversified feedstocks. Demand is strong globally, and these categories will coexist long term, so customers are not dependent on a single material type.

On quality, we have not seen strong customer concerns. Last year, Kingfa sold nearly 300,000 tons of eco-friendly, high-performance recycled plastics. We also

believe that isolated quality issues are not the main bottleneck. Customers are generally more cautious with PCR materials only in industries with extremely high requirements for performance and consistency. In most sectors, such as automotive and home appliances, the main priority is cost, and bio-based and petroleum-based materials provide the same performance—only the feedstock differs.

At this stage, PCR materials are the most widely accepted “green” option, with a typical price premium of up to about 30% versus virgin materials. Bio-based materials are usually priced at roughly two to three times the cost of virgin materials.



Kingfa offers a broad product portfolio, including modified plastics, high-performance resins, and recycled plastics.

Advancing the “333” and “1438” revenue targets

Chu: In response to raw-material price volatility and supply instability, what would you recommend to the industry and to customers?

Wu: For both supply and demand sides,

the rational approach is to purchase and produce based on actual needs, while objectively accepting cost increases. If conditions change and costs come down, then we should also accept cost reductions.

The key is to stay rational and return to fundamentals. As a manufacturer, focusing on core work—raw-material procurement, production processing, and product sales—is sufficient. Decisions should not be driven by market sentiment.

Chu: This year marks the start of the “15th Five-Year Plan”. Over the next three to five years, what are Kingfa’s key targets?

Wu: We are currently drafting our three-year development plan, with two core targets.

First, we will continue to drive the “333” revenue goals, including 30% overseas revenue, 30% revenue from engineering plastics, and 30% revenue from serving Fortune 500 companies.

Second, in the medium to long term, we will pursue the “1438” revenue targets: RMB 80 billion for modified plastics, RMB 40 billion for green petrochemicals, RMB 30 billion for new materials, and RMB 10 billion for healthcare.

For the “333” goals, we have already met the engineering plastics target of 30% of revenue. As this is a dynamic target, its share could be diluted if general plastics grow faster, so we must continuously balance and advance the initiative.

Chu: At CHINAPLAS 2026, what will be the highlights of Kingfa?

Wu: At the exhibition, Kingfa will highlight three themes: Creation, Reproduce, and Innovation. We will showcase how high-performance materials enable a better life, launch a full-lifecycle low-carbon circular solutions package, and unveil technological breakthroughs in areas such as new energy, AI, and communications.

We will also focus on demonstrating our capability to create value for customers. Our booth will be organized by industry—such as home appliances and automotive—with dedicated liaisons to engage buyers directly and identify key pain points and material needs more precisely.

Kingfa Sci. & Tech. Co., Ltd.

Founded in 1993, Kingfa is an advanced materials company specializing in R&D, production, sales, and services for high-performance chemical and material solutions. Driven primarily by in-house innovation, Kingfa’s product portfolio includes modified plastics, eco-friendly high-performance recycled plastics, fully biodegradable plastics, specialty engineering plastics, carbon fiber and composites, light hydrocarbons and hydrogen energy solutions, high-performance resins, and medical & healthcare polymers.

Headquartered in Guangzhou Science City, Kingfa operates more than 60 subsidiaries and maintains R&D and production bases across South Asia, North America, and Europe.

7.2C66



Emery Oleochemicals introduces additives for C-PVC

April 2026 - Emery Oleochemicals, a global specialty chemical manufacturer, has developed a portfolio of additives for chlorinated polyvinyl chloride (C-PVC).

Just as for standard PVC, additives are necessary to process C-PVC. However, additives specifically designed for C-PVC can preserve and even improve the desired properties of this material. To preserve a high heat resistance, it is essential to choose additives that do not influence the Vicat softening point. At the same time, friction must be reduced to improve the processability of the polymer melt. Consequently, a higher dosage of external lubricant improves the processability without reducing the Vicat softening point. While the static heat stability of C-PVC is similar to standard PVC, the dynamic heat stability can be significantly improved using LOXIOL® VPN 963 (Figure 2).

To meet the market’s unique requirements, Emery Oleochemicals has developed a broad product portfolio specifically for C-PVC applications.

LOXIOL® VPN 963: An external lubricant with a high dropping point (80–90°C) for easy handling. It is thermally stable across a wide range, improves plate-out behavior (reducing cleaning cycles), and enhances dynamic heat stability without affecting the color of white end-products. It is suitable for pipes, profiles, and fittings.

LOXIOL® G 32: A neutral ester wax providing both internal and external lubrication. It improves melt flow, prevents sticking to molds, and holds food contact approval, making it ideal for residential water systems.

LOXIOL® G 12-40 V: Serves as an effective mold release agent, particularly for injection-molded fittings, boosting productivity and reducing maintenance costs.

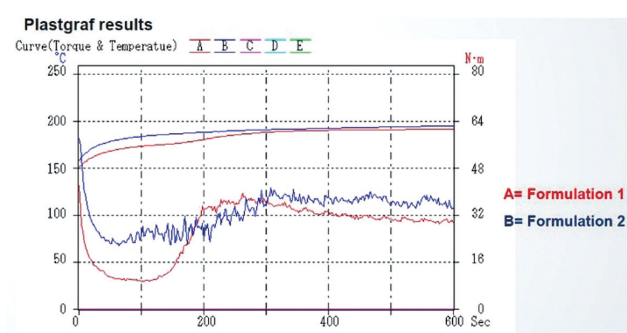
LOXIOL® G 21 H: Developed to minimize plate-out and melt adhesiveness. Even at low dosages (0.2–0.3 phr), it extends cleaning intervals and delivers cost savings. Best results are achieved when used with LOXIOL® VPN 963.

Emery Oleochemicals has decades of expertise with C-PVC applications.

In addition to additives for C-PVC, Emery Oleochemicals’ GPA unit manufactures a wide range of standardized products as well as customized solutions including lubricants, plasticizers, antistatic & antifogging agents etc. as well as release agents made from renewable resources. Our plastic additives series can enable or optimize the production process while also improving the properties of the final plastics part in your formulation.

Our LOXIOL® and EDENOL® brands stand for high quality and reliable products for the plastics industry.

Our team is looking forward to meeting you at our booth @ Nr 6.2 A51 in Hall 6.2 Chinaplas 2026 or you can email to our Asia team by gp.asia@emeryoleo.com if you can’t meet our expertise there.



(Information provided by advertiser)

Molding the future in uncertainty: Insights from Bekum's Managing Director



Michael Mehnert
Managing Director, Bekum Group

Show Daily recently interviewed Michael Mehnert, Managing Director of Bekum Group, to gain insights into the market and technology from this leading German blow molding machine manufacturer. Mehnert discussed the current fluctuating global landscape and Bekum's distinctive approach to the Chinese market. He also shared perspectives on process optimization, the circular economy, and the impact of AI.

Michael Mehnert is the CEO and sole shareholder of the Bekum Group. He studied mechanical engineering at RWTH Aachen before joining the family business, founded in 1959 in Berlin by his father, Gottfried Mehnert. Since 2016, he has served as managing director, overseeing the company's generational transition and strategic development.

Remain competitive amid external forces at play

In your opinion, what are the major challenges facing the global plastics industry in 2026?

Mehnert: In 2026, the global plastics industry is increasingly shaped by geopolitical and economic factors rather than specific machine technologies. Ongoing geopolitical tensions, trade conflicts, and military disputes are affecting international supply chains and investment confidence.

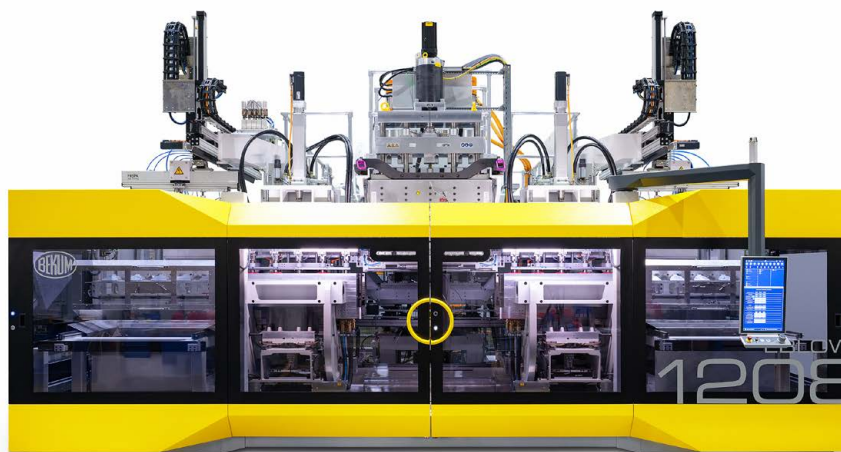
Tariff policies, fluctuating oil prices, and the resulting volatility in resin costs significantly impact the economics of plastics processing worldwide. A significant challenge is the high level of economic uncertainty. Many regions face stagnating consumer demand and limited economic growth. Consequently, investment decisions are often postponed.

Regarding opportunities, which application sectors are likely to demonstrate higher demand for blow molding machines?

Mehnert: At the moment, global consumption trends are relatively stagnant in many regions, limiting strong growth expectations for the blow molding sector. In consumer packaging, several product categories that traditionally relied on extrusion blow molding are increasingly shifting to PET 2-stage processing technologies.

Additionally, certain established applications like automotive fuel tanks are gradually declining due to the transformation of the automotive industry, diminishing the significance of traditional growth drivers in extrusion blow molding.

Future growth opportunities are therefore more likely to arise from new material developments and innovative applications. For example, the rising use of PET in extrusion blow molded handleware containers is opening new application fields.



Bekum blow molding machines excel at manufacturing containers with short cycle times and exceptional process stability.

Deliberate differentiation to navigate the Chinese market

Is the Chinese market a priority for Bekum? Why has Bekum not established production facilities in China?

Mehnert: China is an important market for Bekum, but our strategic focus diverges from the large-volume consumer packaging segment. Standard applications, such as shampoo and household bottles, face intense local competition and extreme price sensitivity, with many Chinese manufacturers offering highly competitive solutions.

Instead, Bekum concentrates on areas where advanced engineering, process stability, and technological expertise are crucial. In China, this primarily includes applications like cleanroom production for pharmaceutical packaging, solutions for the semiconductor industry, demanding automotive components, and specialized multilayer applications, such as six-layer containers.

While establishing a production facility in China makes sense for serving the broader local market with standard

machines, as I mentioned, this environment poses challenges for European manufacturers competing on price. Therefore, Bekum does not plan to set up its own production facilities in China.

We have deliberately chosen a different strategic approach by forming strong local partnerships. This allows us to leverage local products and resources for our new SmartLine series while maintaining our technological standards and know-how.

Could you share more about the SmartLine machine program?

Mehnert: With our new SmartLine concept, Bekum offers a machine platform that reduces investment costs by approximately 30%, lowers energy consumption by around 20%, and enables material savings of up to 10% through optimized processing technology.

Importantly, it maintains the key technological advantages of Bekum systems, particularly in extrusion performance, machine control technology, and overall process reliability. Coupled with strong local service and spare parts availability, this makes Bekum's solution highly competitive, even in increasingly price-sensitive markets.

On process optimization and energy efficiency

Let's talk about technology. What are the latest advancements in blow molding solutions?

Mehnert: Current advancements are primarily centered on improved process intelligence, enhanced simulation capabilities, and greater precision in material distribution.

A key example is the ongoing development of spiral-flow extrusion heads. With advanced flow simulation and optimized design, these systems achieve highly precise layer distribution and stable melt flow conditions, leading to improved repeatability, tighter tolerances, and more stable production processes.

This precision allows for further optimization of wall thickness distribution and material usage reduction without compromising product performance. Meanwhile, machine developments continue to prioritize increased energy efficiency and improved process stability.

How can Bekum and other manufacturers enhance the energy efficiency of their equipment?

Mehnert: In extrusion blow molding, the majority of energy consumption occurs during the extrusion process rather than from the blow molding machine's movements. Typically, about 70 to 80 percent of total energy is needed just to melt the plastic resin.

To enhance energy efficiency, the focus should primarily be on extruder design. Bekum's latest generation of HiPEX extruders has been specifically developed to deliver very high performance while minimizing energy consumption. Features such as optimized screw geometry, improved heat management, and highly efficient drive systems enable excellent melt quality with reduced energy input.

It is important to recognize that there are physical limits to energy savings. A

specific amount of energy is fundamentally required to melt one kilogram of polymer, and modern extruder technology is approaching this theoretical limit.

On circular economy and PCR

What solutions does Bekum offer to promote the circular economy and sustainable development?

Mehner: One key solution Bekum offers is Tri-Ex technology, which enables the production of three-layer containers featuring defined recycled material content in the middle layer. In this configuration, high-quality virgin material is used for the inner and outer layers, while PCR material is processed in the core.

Another important aspect is the possibility to upgrade existing mono-layer machines. Many Bekum systems in the field can be retrofitted with multilayer extrusion



Bekum's automation systems optimize processing and ensure quality, even with challenging material combinations.

technology, enabling customers to convert their current equipment into machines that can process PCR materials in multilayer structures.

What technological challenges arise in processing recycled materials in blow molding?

Mehner: Compared with processes like injection molding, extrusion blow molding imposes stricter requirements on material consistency. Parameters such as intrinsic viscosity (IV), melt strength, and overall material homogeneity play a critical role in stable parison formation and consistent container quality.

Recycled materials often exhibit greater variability in these parameters, resulting in narrower operating windows during processing. Consequently, maintaining tight process tolerances becomes more challenging. Reliable extrusion technology, stable temperature control, and precise process management are essential to ensure consistent product quality when using recycled materials in blow molding applications.

On digitalization and AI

Can you provide updates on Bekum's developments in digitalization?

Mehner: Digitalization is an integral part of Bekum's machine development strategy. Our Bekum Control 8.0 platform is

continuously enhanced with new features and performance improvements. Regular software updates ensure that customers benefit from ongoing technological advancements throughout their machines' lifecycle.

The control system incorporates various Industry 4.0 functionalities, including advanced remote service capabilities, improved cybersecurity, and enhanced machine diagnostics. Intelligent monitoring functions enable operators to quickly identify process deviations or potential machine issues, supporting predictive maintenance strategies and reducing unplanned downtime.

In addition, important documentation such as electrical schematics, operating manuals, and spare parts catalogs can be accessed directly through the machine interface. Bekum is also working on further service innovations, including augmented reality support.

What are your thoughts on the impact of AI on machinery?

Mehner: In practice, the distinction between advanced machine logic and AI is sometimes difficult to define clearly. Bekum machines already incorporate sophisticated control logic and intelligent algorithms that enhance process stability, fault detection, and efficient operation.

Looking ahead, we expect further integration of AI-based technologies. These advancements will enable more in-depth analysis of machine data, improved process optimization, and additional automation

features that will assist operators in daily production.

Presence at CHINAPLAS 2026

Could you share highlights of Bekum's presence at CHINAPLAS 2026?

Mehner: At CHINAPLAS, Bekum positions itself as a packaging specialist for technically demanding markets. Our focus is on applications where product protection, process stability, and material performance are mission critical—ranging from pharmaceutical cleanroom applications to PET handle bottles and large industrial packaging for sensitive, high-purity media.

Bekum

Since 1959, the Bekum Group has established itself as a leader in automation, process reliability, and energy efficiency for blow molding machines. Through strong in-house technology development, Bekum stands for durable and high-ROI solutions.

This family-owned German manufacturer employs approximately 300 people across its facilities in Germany, Austria, and the USA. With over 18,000 Bekum machines installed in more than 100 countries, the company boasts a strong global presence.

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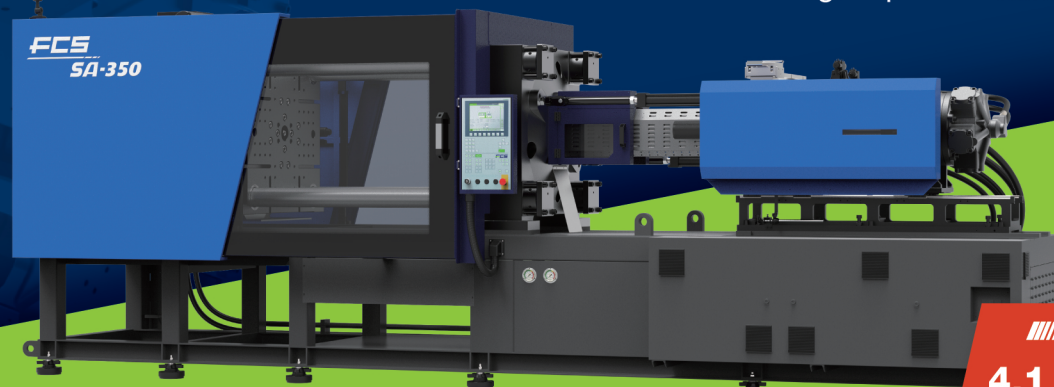
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Discover the must-attend concurrent event lineup

More than just a high-quality trade fair, CHINAPLAS 2026 is an essential ecosystem for industry intelligence. Visitors can stay ahead of market shifts through a diverse range of “not-to-be missed” inspirational concurrent events, including the debut of The Power of Plastics Forum, InnoAccelerate, Additives Seminar, and Day4 Trend Insights.

Whether you are seeking technological inspiration or market clarity, these concurrent events are designed to accelerate your growth in the global marketplace.



Concurrent
Event Overview

Medical Plastics Connect

Medical Plastics Connect showcases global innovations and cutting-edge technologies, empowering medical product manufacturers to master critical topics and adapt to industry changes. The “Medical Plastics Conference” is scheduled for the afternoon of April 21 and features esteemed companies presenting valuable technical insights.

Date: April 21, 13:00 - 16:30

Venue: Hall 4.2, Booth H61

InnoAccelerate

CHINAPLAS partners with prestigious universities to launch the special event InnoAccelerate, which features a variety of activities, including industry-academia seminars, signing ceremonies for the commercialization of scientific research achievements, and exhibitions showcasing university innovation achievements. The aim is to establish an innovation docking platform that bridges enterprises and academic institutions.

Date: April 21-24, 09:30 - 17:30; April 23, 14:00 - 17:00

Venue: Hall 4.2, Booth H92; Hall 4.2 Booth H61

InnoAccelerate



The Power of Plastics Forum: Green · Smart · Responsible

The Power of Plastics Forum invites industry stakeholders to join a transformative gathering aimed at shaping the future of plastics. Attendees can engage with leading experts from VDMA and other industry pioneers, discussing breakthrough recycling technologies, advancements in the smart processing of recyclates, and AI-driven digital solutions such as digital twins and product passports.

Date: April 21-23, 10:00 - 17:00

Venue: Hall 2.1, Booth J92



The *Power of Plastics* Forum

Green · Smart · Responsible



Partner

ADSALE 雅式

Tech Talk

As the official platform for launching innovative technologies at CHINAPLAS, this year's Tech Talk features over 40 groundbreaking solutions across five key sessions: Innovative Packaging Solutions, Green and Low-Carbon Solutions, Automotive Plastics Solutions, 2026 New Materials, and Specialized & Niche Chinese Technology Presentations.

Date: April 21-22, 10:30 - 16:30; April 23, 12:30 - 16:30

Venue: Hall 2.2, Booth J80

TECH TALK

Innovative Technologies
Official Release Platform





Product Innovation Gallery

This year, the Product Innovation Gallery showcases over 200 bespoke products and semi-finished goods, displayed across seven signature walls strategically located at the entrances of five major exhibition halls. Visitors can observe these innovative achievements up close.

Date: April 21-24

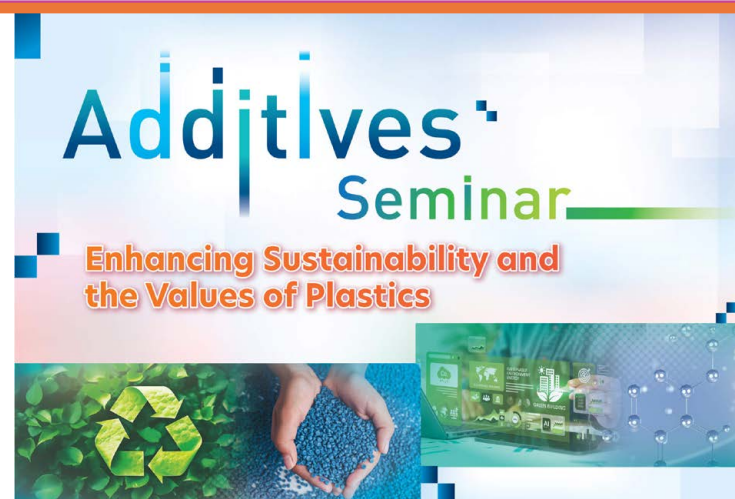
Venue: Hall 1.2, 4.1, 6.2, 7.2, 8.1

Additives Seminar: Enhancing Sustainability and the Values of Plastics

Making its highly anticipated debut at CHINAPLAS, the Additives Seminar: Enhancing Sustainability and the Values of Plastics aims to assist chemical suppliers and brand enterprises in navigating cost and compliance challenges through innovative additives that promote ESG goals and enhance product safety.

Date: April 22, 13:30 - 16:30; April 23, 09:45 - 12:45

Venue: Hall 4.2, Booth H61



Applications in Focus Buyer's Perspective Steering Tech Strategy

Applications in Focus

At Applications in Focus, seven themed forums address the pain points of end-use industries while seeking collaborative solutions across the supply chain. The forums explore more than 50 hot topics, including automotive, medical, packaging, antimicrobial products, cables, and eco-friendly PVC solutions.

Date: April 23, 10:00 - 17:00

Venue: Meeting Room 302, 303, 402, 403, 502, Mezzanine Floor

Smart Molding, Shaping the Future

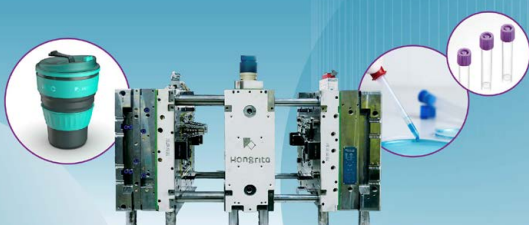
The Smart Molding, Shaping the Future forum centers on two critical industry trends: Intelligent Transformation and Sustainable Development. It explores how robotics, AI, and advanced management systems are driving intelligent upgrades. Additionally, discussions emphasize the role of green manufacturing in enhancing core competitiveness.

Date: April 23, 10:00 - 12:30

Venue: Hall 2.2, Booth J80

Smart Molding, Shaping the Future

Intelligent Transformation and Sustainable Development in the Plastics & Molding Industry



Day4 Trend Insights

A meticulously curated full-day itinerary awaits attendees on the final day of CHINAPLAS, April 24, promising an enriching experience. The day begins with the "Decode Trends Forum" in the morning, followed by the "Exclusive VIP Factory Tour" in the afternoon.

Date: April 24, 10:00 - 17:00

Venue: Meeting Room 302, 402, Northwest Footpath, Mezzanine Floor; Meeting Room 502, Southwest Footpath, Mezzanine Floor



Development Day for Campus Elites

In collaboration with the Shanghai Plastics Industry Association and leading universities, the Development Day for Campus Elites brings traditional campus recruitment directly to the fairgrounds. The program features onsite sharing sessions, face-to-face industry-academia communications, and group visits.

Date: April 24, 10:00 - 12:00

Venue: Hall 2.2, Booth J80

Development Day for Campus Elites

Connecting Enterprises with Future Talents



Human-AI collaboration on the road to Industry 5.0

Artificial Intelligence (AI), not least generative AI (GenAI), has evolved from an experimental phase to a vital and mission-critical driver for the plastics and rubber industry.

While traditional AI focuses on classifying and analyzing data, GenAI goes a step further by generating new, original outputs that resemble human creativity. It achieves this by using deep learning models to learn patterns from vast amounts of existing data.

From automation to autonomy: Doors for manufacturing advancement

As we transition from automation to a more autonomous approach, the advancement of GenAI paves the way for significant improvements in manufacturing.

ENGEL's new inject AI framework combines extensive injection molding expertise with AI to address industry challenges such as skilled labor shortages, material savings, and quality assurance.

Concrete AI solutions of inject AI include the iQ process observer, which automatically analyzes over 1,000 parameters in real time. It detects deviations and offers actionable recommendations, thereby reducing misadjustments and supporting optimization.

The latest predictive maintenance systems for injection molding machines utilize AI and digital twin technologies within the cloud analytics layer of data processing. These systems aggregate data from multiple machines and employ

machine learning models to provide deeper insights and reporting. The digital twin serves as a virtual replica of the physical machine, enabling "what-if" simulations and parameter optimization with a prediction horizon of 2-6 weeks. Consequently, these advancements enable more proactive and effective predictive maintenance.

For instance, in the automotive industry, a Tier 1 supplier implemented advanced predictive monitoring on a Tederic DH-650 injection molding machine line producing radiator parts, resulting in a 42% reduction in downtime and an increase in overall equipment effectiveness (OEE) from 78% to 88% within nine months.

By integrating AI-powered electrical signature analysis (ESA) and machine learning technologies, Siemens' NXpower Monitor—its digital caretaker for electrical networks—conducts real-time analyses of high-quality current and voltage data. This capability enables the detection of electrical and mechanical faults up to five months before potential downtime occurs.

Furthermore, the system also provides comprehensive performance and efficiency insights, pinpointing areas with the highest electricity consumption, costs, and efficiency losses. By implementing data-driven recommendations, organizations can optimize their operational processes, significantly reducing energy waste and cutting CO2 emissions by up to 15%.

The paradigm shift: Next Wave of material discovery

AI's role in research and development

of materials is equally transformative. BASF is one of the leading chemical companies that leveraging AI to drive material innovation, resulting in over 1,000 new patents globally in 2024, with around 23 percent emphasizing AI and digitalization. Central to this effort is BASF's QKnows platform, which consolidates scientific literature, patents, and internal reports, enabling global researchers to efficiently search through over 400 million documents.

Additionally, BASF has developed its first AI reactor, designed to enhance the yield of chemical reactions. Traditionally, chemists varied reaction parameters sequentially, a time-intensive process. The AI reactor revolutionizes this by planning, executing, and analyzing experiments. It learns and autonomously triggers the next reaction cycle and maximizes the yield of the reaction, significantly speeding up the process—demonstrating up to 20 times faster results compared to manual methods.

The synergy between technology and sustainability is crucial in the food sector. Nestlé is continuously reducing the use of virgin plastic in packaging, moving to recyclable mono-material and other solutions. The food and beverage giant is collaborating with IBM to create a generative AI tool for discovering innovative and sustainable high-barrier packaging materials that protect food, while considering cost, recyclability, and functionality.

Nestlé and IBM scientists leveraged AI-based processing techniques to construct



BASF and research partners collaborate to optimize mechanical recycling of plastics by combining advanced measuring techniques with AI.

a knowledge base of known materials from public and proprietary documents. Subsequently, the team fine-tuned a fit-for-purpose chemical language model, enabling it to learn the representation of the molecular structures and the correlation between key structural molecular features and the resulting physical-chemical properties.

Pathway to future success

The critical question facing the plastics and rubber industry is not whether to adopt AI, but how to implement it effectively to propel the industry forward.

Industry 5.0 represents a transition from automation-focused manufacturing to a collaborative model that integrates human expertise with generative AI. This approach leverages AI's data processing capabilities while preserving the vital human skills of creative problem-solving.

Uniting the chemical industry to pioneer net-zero and circularity

Achieving net-zero emissions presents a challenge that is too vast and complex for individual chemical companies to tackle alone.

The challenge arises because over 70% of greenhouse gas emissions are embedded within value chains rather than confined to individual corporate boundaries. Specifically, the most crucial decarbonization levers—circular feedstocks, waste-to-chemicals pathways, low-carbon fuels, and advanced recycling—operate at the interfaces between chemical producers, waste managers, OEMs, and energy providers.

This is where the Global Impact Coalition (GIC) comes into play. By uniting the world's leading chemical companies, it serves as a neutral platform with clear governance, stage-gated investment logic, and credible pathways to commercialization.

GIC delivers practical solutions—not merely a talking shop that sets targets—with projects like Automotive Plastics Circularity and Waste-to-Pyrolysis Oil. These projects align resin producers, recyclers, automotive OEMs, and technology providers around shared data, cost-sharing, and staged decision-making.

Charlie Tan, CEO of GIC, underscores the importance of practicality: "Chemical companies today are operating under significant margin pressure, especially in Europe, delayed capital deployment, and increased scrutiny over returns. This means collaboration must be sharply focused on tangible outcomes rather than broad



Charlie Tan, CEO of Global Impact Coalition.

ambition."

Tan also emphasizes the need to ground collaboration in real market constraints—volatile feedstock prices, delayed CapEx (Capital Expenditure) cycles, and regulatory uncertainty. When executed effectively, collaboration can accelerate decisions that would otherwise be stalled for years.

Collaboration based on structured framework

Operationally, GIC encounters challenges such as data transparency, IP protection, and varying regulatory assumptions across regions. These issues are addressed through clearly defined project scopes, neutral project management oversight (PMO), and early agreements on decision gates. Without this structured

framework, cross-continental collaboration tends to hinder rather than accelerate progress.

There is a growing need to bridge perspectives between regions that are advancing at different rates. For instance, China's scale and execution capabilities contrast with Europe's regulatory initiatives and technological developments. Platforms like GIC are increasingly valuable precisely because they enable these strengths to complement rather than compete with one another—something individual bilateral partnerships often struggle to achieve.

Expansion to energy and waste management industries

In addition to chemical companies, GIC has recently welcomed partners from other sectors, such as energy and waste management. This expansion acknowledges a fundamental reality: achieving net-zero emissions increasingly involves perspectives and resources beyond the chemical plant.

By integrating energy companies, waste managers, and infrastructure providers, GIC projects have advanced from concept to pre-commercial pathways. For instance, GIC's waste-to-methanol and waste-to-pyrolysis oil projects necessitate aligned feedstock aggregation, energy inputs, and offtake commitments—collaboration that would be nearly impossible through bilateral negotiations alone.

Tan adds that this expansion also reflects the current constraints facing

the industry. With chemical CapEx under pressure globally, companies are prioritizing projects that share risk and shorten time-to-decision. "Cross-sector collaboration enables precisely that, allowing participants to test economics, logistics, and regulatory viability before committing balance sheet capital," he notes.

He points out that this model is particularly relevant for Asia, including China, where the availability of waste, industrial clustering, and energy integration present unique advantages. "Bringing these sectors together is not a theoretical exercise—it is increasingly the only viable route to scalable, competitive decarbonization," he reiterates.

Next step: Expanding membership to China

Chinese chemical companies are uniquely positioned to shape the next phase of global sustainability. Their scale, execution capabilities, and increasing focus on efficiency and circularity are critical to achieving significant emissions reductions at a global level. "We are actively open to expanding membership in China and see this as a natural next step in GIC's evolution," says Tan.

GIC's focus on execution-ready projects in advanced recycling, alternative feedstocks, and industrial decarbonization closely reflects the strategic agendas of leading Chinese chemical groups, positioning the coalition well for selective engagement as global collaboration in these areas deepens.

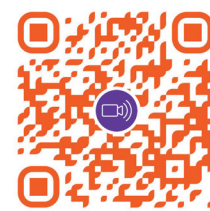
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2026.4.21-23

Booth 2.1J92

Putonghua & English
(Simultaneous interpretation available)

Three Key Themes

- Closing the Loop: Breakthrough Plastics Recycling Technologies from Europe**
- From Waste to High-Performance Materials: Advanced Processing of Recyclates**
- How Digitalization and AI are Transforming the Plastics Value Chain**

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An array of cutting-edge solutions for medical device production



As the healthcare landscape evolves, the demand for high-performance medical devices intensifies. Recent advancements in material science and production technologies facilitate the development of devices that better meet user needs, ultimately enhancing patient care and outcomes.

At CHINAPLAS 2026, a diverse array of exhibitors showcase their latest innovative materials and processing equipment tailored for medical device production. These presentations highlight the latest technologies, offering industry professionals valuable opportunities to explore new ventures and collaborations while staying at the forefront of this dynamic sector.

Sino ultra-clean culture dish with lid (4+4 mold)

Sino Mould Co., Ltd. Zhejiang's ultra-clean culture dish with lid 4+4 mold adopts



a stacking mold design. This innovative mold utilizes high-precision tooling and processing techniques, achieving a scrap rate of $\leq 0.1\%$ and a mold life of ≥ 10 million shots. The design significantly reduces the frequency of mold replacements and maintenance costs. The end product boasts exceptional cleanliness, high light transmittance, and no dents, fully complying with the stringent requirements of the medical industry.

5.1C71

Vertical injection molding machines for medical catheter production

Hangzhou Atech Machinery (AKPLAS) specializes in manufacturing vertical injection molding machines, with an annual output of over 1,200 units. The company has developed more than



one hundred types of injection molding machines, featuring clamping forces ranging from 35 tons to 800 tons and injection volumes from 1 g to 8,000 g.

AKPLAS's fourth-generation double servo turntable injection molding machines are particularly suited for medical catheter production. These machines incorporate the latest oil systems and mechanical structures, resulting in low energy consumption, enhanced stability, and high injection repeatability. Additionally, the machines are more compact, with a running speed that is 15% faster than previous models.

Meanwhile, the all-electric E series from AKPLAS meets various medical application requirements, offering high product accuracy for precision injection molding of medical components.

4.1D08

VECTOR SEBS medical solutions

VECTOR SEBS, offered by TSRC Corporation, is a safe and eco-friendly material that is free from plasticizers, significantly reducing potential health risks.



It boasts excellent transparency, flexibility, and mechanical properties, making it an ideal alternative to PVC in the medical field.

Certified by the ISO 10993-5 cytotoxicity test and the USP Class VI test, and compliant with medical Good Manufacturing Practices (GMP), VECTOR SEBS is widely utilized in infusion bags, medical tubing, and syringe plungers. It is also suitable for general modifications of articles in medical applications.

6.2C02

PEEK-OPTIMA for drug delivery devices

PEEK is renowned as one of the highest-performing polymers and has gained significant traction in the production of medical devices. The medical-grade implantable PEEK-OPTIMA, provided by Invibio, a part of the Victrex plc group, delivers all the advantages of non-implantable PEEK while ensuring biocompatibility and, in specific grades, radiolucency.

As a leading supplier of high-performance PEEK polymers, Victrex collaborates with partners to develop both non-implantable and implantable drug delivery devices. Utilizing PEEK materials enhances product safety and durability, offers design flexibility, improves patient comfort, and promotes cost efficiency.

7.2B01

Precision heat shrinkable tube extrusion line

Sheng-An Plastics Machinery is a leading supplier specializing in the research, development, manufacturing, and marketing of precision medical extrusion equipment. Its equipment features originally imported German screws and barrels, designed to withstand high temperatures and corrosion, ensuring long-term extrusion performance of fluorine plastics. The equipment maintains a diameter control

error of ± 0.01 to ± 0.03 mm for tubes ranging from 2 to 5 mm.

The precision heat shrinkable tube extrusion line from the company is used for producing medical equipment with fluorine resin tubes, including FEP and PFA tubes, as well as FEP, PFA, PEEK heat-shrinkable tubes, develop tubes, and tearable tubes.

2.2F31

Injection blow molding machine for nucleic acid testing reagent bottles

The SZCX160/50X one-step injection blow molding machine, which has received multiple innovation patents, is designed specifically for manufacturing pharmaceutical bottles, including plastic nucleic acid testing reagent bottles. This machine meets the strict criteria for pharmaceutical packaging, ensuring stable

and reliable product quality.

Zhejiang Keli Plastic Machinery's one-step injection blow molding machines integrate injection and blow molding functions in a single unit, eliminating the need for neck and bottom flash trimming and minimizing material waste. They are capable of producing high-end medical bottles from materials such as PP, PE, PS, and ABS, with sizes ranging from 2 ml to 1500 ml.

These machines offer precise and stable performance, robust rigidity, extended service life, adherence to cleanroom standards, and compliance with European safety regulations.

8.1C68

Calcium/zinc one pack stabilizer for medical applications

The Xinda QY-60 series stabilizer is known for its exceptional inhibition of initial coloration, excellent long-term thermal



stability, and low additive content. It also functions as a lubricant, is easy to disperse, and exhibits good compatibility with PVC resin, while eliminating pressure analysis and frosting issues. This stabilizer is primarily used in the processing of medical tubing and other products.

Guangdong Xinda Advanced Materials Technology, recognized as a National High-Tech Enterprise, is a leading manufacturer of plastic additives in China.

1.2A92

TPE overmolding in medical device applications

Audia Elastomers provides a range of TPE solutions tailored for medical device applications. These materials exhibit excellent bonding performance with various substrates, including PP, PE, ABS, PC, PC/ABS, PBT, PA, and POM, while meeting RoHS, REACH, and ISO 10993 standards.

Audia's TPE grades offer outstanding

clarity across a broad hardness range (Shore OO, Shore A, and Shore D). The company also supplies materials compliant with ETO, GAMMA, and steam sterilization requirements. Specialty grades are particularly suitable for replacing traditional thermoset and silicone rubber in various healthcare applications.

6.2C83

Revolutionize Your Plastics Supply Chain with Our Newly Released Sourcing Guide



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Boost Competitiveness:

How Chinese extrusion machinery can enhance your business?



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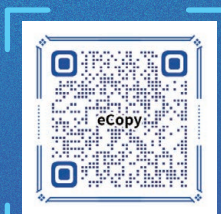
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Gneuss presents solutions for stable recycling and efficient extrusion



2.1G01

Gneuss showcases solutions for stable recycling and efficient extrusion at CHINAPLAS 2026. Key highlights include OMNI recycling systems, MRS extrusion technology, and the company's rotary filtration systems.

These technologies enable processors to maintain stable operations, even with challenging material qualities. They also help reduce energy and material consumption, while efficiently upgrading existing lines in both recycling and conventional extrusion and compounding.

OMNI recycling systems

OMNI recycling systems are specifically designed to reliably handle incoming material streams with fluctuating properties while producing high-quality recyclates in an economical manner. Depending on the application, they can process a wide range of polymer streams, including PET, polyolefins, and styrenics.

With features such as efficient devolatilization and continuous melt filtration during operation, these recycling systems ensure process stability, reproducible product quality, and low operating costs.

A primary focus is the production of

high-quality recyclates for applications with strict purity requirements, including solutions for food contact applications, supported by the necessary regulatory assessments in the United States and Europe.

MRS extrusion

MRS extrusion technology combines proven single-screw technology with a specialized multi-screw section that significantly increases the melt surface area under vacuum. This design allows for the efficient removal of volatiles, moisture, and odor-forming components.

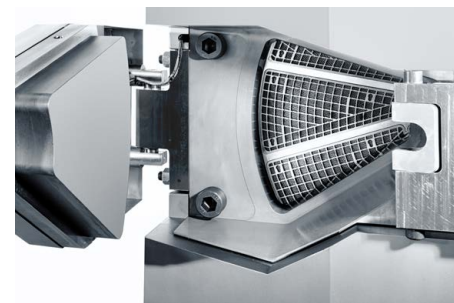
Even when processing challenging materials, this extrusion technology enhances product quality by producing more consistent results with reduced odors, fewer gels or optical defects, and a more robust process.

Moreover, energy and equipment requirements can be minimized, as many applications do not require complex pre-drying. This leads to lower energy costs, simplified line design, and a reduction in potential sources of operational errors.

Rotary filtration systems

Gneuss rotary filtration systems facilitate continuous melt filtration without production interruptions, even in the presence of highly variable contamination levels.

The RSFgenius series, in particular, combines constant-pressure filtration with efficient backflushing for automatic self-cleaning. This design minimizes downtime,



Patented Gneuss RSFgenius rotary filtration system (detailed view of screens).

reduces operator involvement and the need for screen changes, and limits material losses.

As a result, users benefit from a more stable production process, lower scrap rates, and higher overall line efficiency in both recycling and demanding extrusion applications.

Retrofit and process optimization

Another focus is on retrofit and optimization projects. In many cases, significant improvements can be achieved by upgrading existing lines with modern melt filtration and extrusion technology. These upgrades often lead to increased process stability, reduced downtime, improved output, and lower operating costs. As a result, customers can realize efficiency gains without the need for a complete new line investment.



Patented MRS extrusion system with 25mbar vacuum system.

motan offers uninterruptible control for material management



Automotive



E&E



Medical

4.1F42

The central theme of motan Taicang Co., Ltd. at CHINAPLAS will be an uninterruptible control system for smart material management.

As we transition into the AI era, equipment must be capable of delivering more data, necessitating the addition of more sensors to facilitate AI learning. With the demand for increased data comes a heightened need for system reliability. Any system failure can lead not only to production losses but also to data loss, underscoring the growing necessity for uninterruptible control system.

A drying system comprises a dryer and

drying bins. Currently, the most common control systems in the market utilize a single CPU, either in the form of a PLC or a standalone board computer located within the dryer, with all sensors wired directly to the dryer's control input. The dryer's output then regulates the heater in the drying bin.

However, this type of drying system has notable limitations: it is challenging to install on-site and difficult to expand. Typically, one dryer can support only four to five drying bins. Furthermore, if the CPU in the dryer fails, the entire drying system becomes inoperative.

To connect more drying bins, the control system must be modified. Currently, signals are routed to a remote input and output (I/O) board in each drying bin, which then connects to the CPU in the dryer via a device-level network typically operating at 125 to 256 kbps. This configuration allows for the addition of more drying bins and simplifies installation. However, the overall

number of bins is constrained by the capabilities of the controller in the dryer and the slow network speed.

In addition, expanding functionality within the bins is challenging due to the limitations of the remote I/O board. As before, if the CPU in the main dryer fails, the entire drying system becomes non-operational.

In the AI era, vast amounts of information are required for self-learning, necessitating an increased number of sensors to provide comprehensive data. To simplify this process, motan has integrated a CPU into each drying bin. This CPU features expandable I/O capabilities and can control the heater and airflow while collecting data on temperatures, weight, energy consumption, and more. The manufacturing execution system (MES) can access all data from each individual drying bin.

Meanwhile, the independent CPU allows each drying bin to connect

seamlessly with conveying units, enabling closer integration between systems. This structure lays the groundwork for an uninterruptible control system.

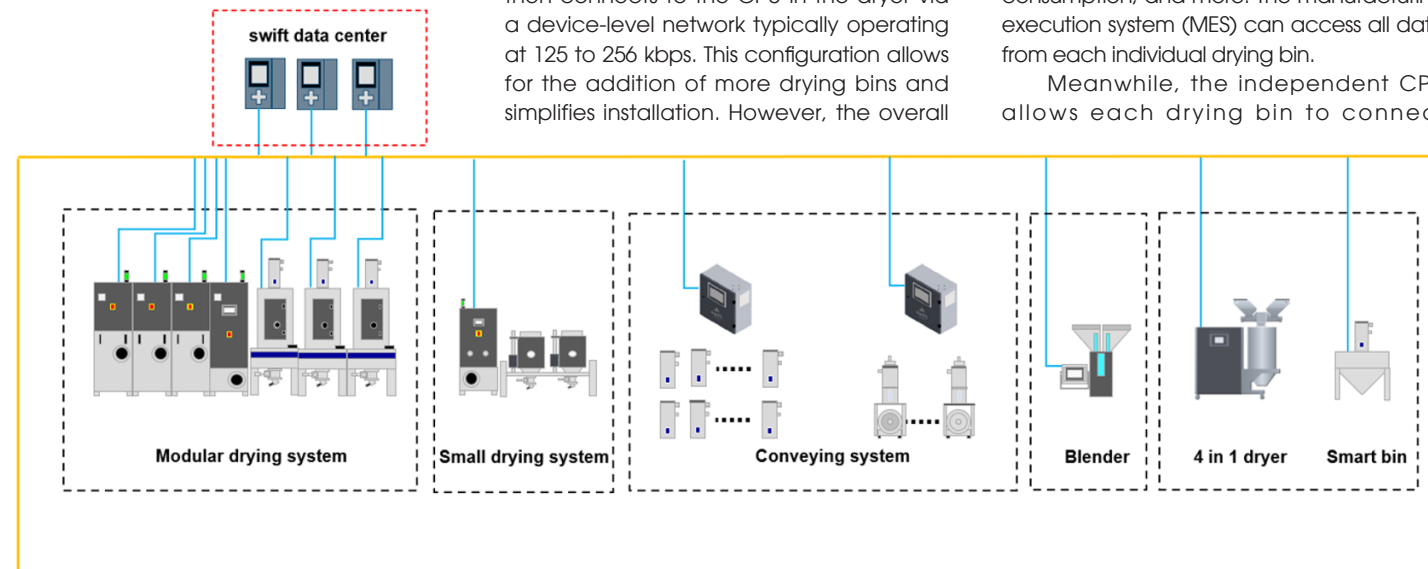
As drying bins become smarter and more independent from the dryer, a crucial question arises: what happens if the dryer breaks down? In that case, the entire drying system would still be affected. This challenge led motan to develop modular dryers.

The dryer is no longer a single unit; it is now composed of individual modules. Each module delivers 450 cubic meters of dry air and features its own CPU, allowing it to automatically adjust based on the total dry air requirements of all the bins. To ensure redundancy, only one additional module is needed instead of a complete dryer.

On the conveying side, motan offers a modular blower system where each blower serves as a backup for the others, providing an uninterrupted conveying system.

An uninterruptible control system also requires a reliable network. motan employs an optical fiber ring network in its system, which is immune to electromagnetic interference (EMI) and radio frequency interference (RFI) noise. The ring network enhances redundancy and helps prevent cable breakage.

If a supervisory control and data acquisition (SCADA) system is required for the factory, a data center is essential for collecting all data from the equipment within the system. What happens if the data center fails? motan provides double or even triple redundancy in the data center, making the company the first in the market to offer this feature.



motan offers an uninterruptible control system for smart material management.

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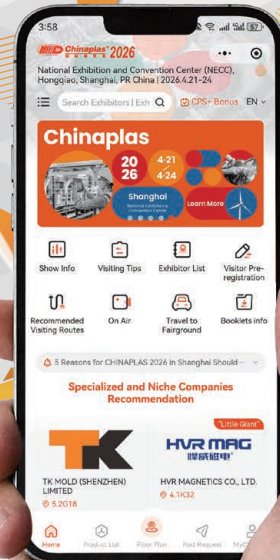
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