

# FEATURE: RESUMING PRODUCTION

== JUNE 2020 ==

COVID-19 has aroused global awareness of safety and hygiene. The critical roles of plastics and rubber technologies in fighting against the epidemic have stimulated wider application of advanced anti-bacterial materials, safe packaging, as well as materials and machinery for producing anti-epidemic and medical products. Meanwhile, under the circumstances in which factories have difficulties resuming operation, productivity is maintained thanks to the back-up of automation, digitalization and intellectualization of production and measuring equipment.

CHINAPLAS is always an unparalleled platform for plastics & rubber industry to demonstrate full spectrum of solutions. Make sure to stay tuned with CHINAPLAS and be the first to acquire the emerging technologies and their applications in challenging environment.

## Golden Electric Allrounder 470 E: LSR Components

To achieve reproducible production of high-quality LSR components, ARBURG has launched an electric ALLROUNDER from the GOLDEN ELECTRIC series in an LSR version for the first time. It produces LSR lenses, each containing 33 optical fibres, in an automated and cost-effective manner and is equipped with two robotic systems: a linear MULTILIFT SELECT removes the lenses from the mould and places them on a cooling station. A six-axis robot delivers the injection moulded parts to a laser station where a DM code is applied. Every part is therefore 100 per cent traceable. LSR lenses are used, for example, in matrix headlights for cars to switch the LED main beam lights on and off depending on the situation.

ARBURG (SHANGHAI) CO., LTD.



## PVC Medical Film Production Line

The traditional method of PVC medical film product is calendaring. With years of screw production experience, Jwell has developed the extrusion casting method. The production energy consumption of the product is greatly reduced by 30% compared with products of the same specifications. And the workshop production environment is cleaner!

Product specifications can be diversified, thickness and width can be adjusted online, and the pattern on the product surface is easy to change!

The extrusion casting process can measure the thickness online, which can timely adjust the uniformity of product thickness and improve product quality.

CHANGZHOU JWELL PLATE & SHEET  
EQUIPMENT CO., LTD.

## Electric Injection Molding Machines for Medical Application and Dust Free Environment

Medical consumables have stringent product quality requirements. As a domestic manufacturer specialized in production of high-precision medical filter and infusion devices, W.E.O. maintains a strategic relationship with Yizumi. Most medical consumables are made of transparent materials without dark spots and free from contamination. The requirements for dimensional accuracy and consistency are extremely high. Yizumi's FE series all-electric injection molding machines, FF electric injection molding machines, and A5 high-end servo injection molding machines are featured by high efficiency, precision, and stable performance. They not only meet the product molding requirements with high precision, but also help to achieve the operation in a dust-free work environment as required in the medical supply manufacturing industry.

GUANGDONG YIZUMI PRECISION MACHINERY CO., LTD.





## Siemens Advanced PLC SIMATIC S7-1500 T-CPU

SIMATIC Technology provides an intelligent solution for all challenges involving Motion Control, Signal acquisition/output, and Closed-loop/PID Control, all the way to serial communications. Integrated and scalable SIMATIC Technology automation solutions not only save you valuable engineering time in the case of simple tasks or even complex problems but also ensure maximum efficiency and flexibility. The result: one engineering, one controller, one communication for standard automation, safety and technology.

SIEMENS LTD., CHINA

## FC grade Two Spindle IML Visual Inspection Solution

This IML system is mainly used in food packaging industry, which is composed of two spindle IML system and visual inspection system. It is a set of system that adapts to die stacking, in mould labeling, take out, stacking and omnibearing visual inspection, identification and sorting. The purpose of this system is not only increasing the multiple production output, but also to carry out omnibearing visual inspection, to ensure the safety of packaging containers, facilitate the packing and stacking of various cartons and support flexible manufacturing to the greatest extent, create a prerequisite for improving production efficiency and reduce labor costs.

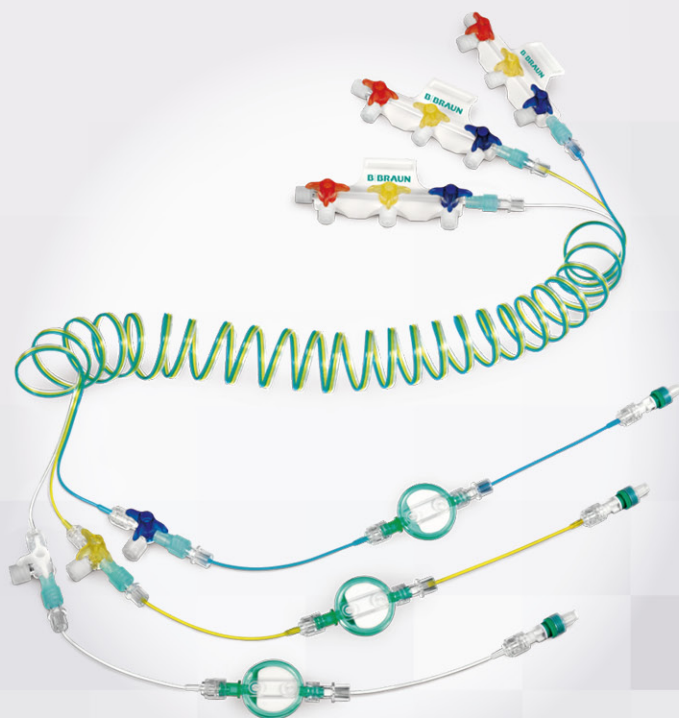
NINGBO WELL-LIH ROBOTS TECHNOLOGY CO., LTD.

## Combination of Nano-scale Feed Block Pus Multi-manifold Co-extrusion Die

This combination has adopted 2.5D multi-layer analytical method, through which the realistic simulation will be carried out to make sure the most uniform melt distribution across the whole flow channel of each layer, thus is able to produce functional films with multi-layer and excellent physical performance. It can be widely used in packaging, medical, electronics, automotive and other industries.

ZHEJIANG JINGCHENG MOLD MACHINERY CO., LTD.





## Elastollan® FC grade TPU

Target Market: Medical equipment

Target application: Infusion tube

Elastollan® FC grade TPU can provide:

- 1) High transparency, chemical resistance, and ease of sterilization
- 2) Tearing & kinks resistance and outstanding elastic recovery properties
- 3) Phthalate-free with FDA and USP Class VI certification, can pass ISO-10993

**BASF (CHINA) CO. LTD.**

## Solvay and PDI Healthcare Collaborate on Disinfectant Resistance Testing of Specialty Polymers

Solvay's materials are employed extensively in medical devices and equipment that are exposed to the repeated application of aggressive disinfectants used to help prevent the risk of hospital acquired infections (HAI). 93 percent of the Solvay polymers showed a high retention of tensile strength and 100 percent of Solvay polymers showed high retention of impact properties, which are key indicators of their resistance to environmental stress cracking (ESC), potentially resulting from chemical exposure. The cosmetic testing revealed no apparent surface damage or degradation to any of the Solvay materials tested.

**SOLVAY**



## Withstand™ Antimicrobial Technology

PolyOne's WithStand™ antimicrobial materials are members of a family of technologies designed and tested to specific log kill requirements to eliminate or inhibit microbe growth on plastic surfaces and protect the products from microbial degradation, mold, and mildew.

WithStand™ antimicrobial materials are customizable for customers' unique needs and applications.

WithStand™ antimicrobial materials have been tested and demonstrate compatibility across a wide range of polymers. In addition, the PolyOne technical service team can work with customer to provide a stress-free experience when incorporating any PolyOne solution into the products.

**POLYONE CORPORATION**







## Silicone Rubber Protective Masks

The rubber products in Elkem Silicones is widely used in medical and health market such as breathing masks, catheters, surgical parts and medical equipment accessories and other fields. Elkem Silicones has quickly responded to meet market demands. To fight against COVID-19, Elkem Silicones has supplied BLUESIL™ LSR 8600, raw materials of silicone rubber series, to a China manufacturer of professional medical protection and silicone rubber protective masks which are soft, comfortable and excellent coverage to the face.

BLUESIL™ LSR 8600 series product which has the characteristics of highly transparent, good processing properties, strong tear resistance and excellent elongation at break, meets the requirements of the FDA in U.S. and LFGB certification in Germany.

**ELKEM SILICONES**

## CYROLITE® Biocompatible Acrylic Multipolymer Compound

Röhm offers a range of high-performance polymers and compounds for various non-implantable medical device and packaging applications, including CYROLITE®, Vu-Stat® and XT® polymer. Being highly biocompatible, ductile and easily processed, these products are your first material choice for applications like luer locks, connectors, catheter accessories, Y-sites, filter housings, blood handling device. All CYROLITE® grades meet the requirements of USP IV, Tripartite, ISO 10993-1 and FDA and are free from Bisphenol A (BPA), Bisphenol S (BPS) and Di-(2-ethylhexyl) phthalate (DEHP).

**ROEHM CHEMICAL (SHANGHAI) CO., LTD.**



## Microban Antimicrobial Technologies for Cleaner, Fresher & More Sustainable Plastic Products

Microban antimicrobial protection works to eliminate bacteria, mould and mildew growth on plastic products and surfaces. The innovative formulations have been proven to perform faster than other antimicrobials on the market, providing up to a 99.9% reduction of Salmonella enterica, E. coli, MRSA and VRE in 2 hours at room temperature. Plastic products treated with Microban remain hygienically cleaner and fresher for their expected lifetime. The technologies also enhance the sustainability of a product, reducing premature disposal and plastic pollution. Microban additives are suitable for a range of polymers such as ABS, PP, PS, PE, LDPE, PVC and PC. Typical applications include food storage containers, drinks bottles, high chairs and water tanks. BPR notified and EPA approved.

**MICROBAN INTERNATIONAL (ASIA) LTD.**

## Polycarbonate Goggle

Polycarbonate (PC) is a thermoplastic engineering plastic with excellent optical transparency, impact resistance and heat resistance.

Wanhua Chemical Clarnate® A1077 is suitable for manufacturing goggle lenses with the following advantages:

- 1) PC lens is light and thin with unique light transmittance comparable to glass, offering clear vision, wear comfort and anti-fog effect by surface coating.
- 2) Excellent impact resistance, avoiding eye damage caused by dust, sand, liquid splash and broken lenses.
- 3) Heat-resistance temperature up to 120°C, additional ultraviolet proof effect and resistant to repeated disinfection.

**WANHUA CHEMICAL GROUP CO., LTD.**



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📁 Suppliers Database: [www.ChinaplasOnline.com/SuppliersDB20](http://www.ChinaplasOnline.com/SuppliersDB20)  
New and Hot Technology Collection: [www.ChinaplasOnline.com/NewTecheBook](http://www.ChinaplasOnline.com/NewTecheBook)  
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