

# SCHOTT forma vitrum in China

experience, innovation

**SCHOTT Glass Technologies (Suzhou) Co. Ltd**  
**Pharmaceutical Packaging manufactures pharmaceutical packaging made of tubular glass that meets the stringent international requirements of the pharmaceutical industry**

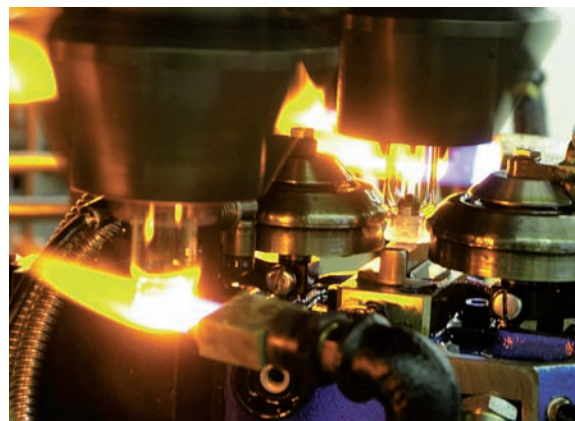
## The Site

Located in Suzhou in the Jiangsu province of China, the site opened in 2007. It is backed by the SCHOTT group's nearly 100 years of experience in the manufacture of pharmaceutical packaging.

The site became ISO 14001 certified in 2007 and received ISO 9001 certification in 2008. Also in 2008, the Chinese SFDA certified the site.

Technical expertise is combined with the use of latest technology (in-line control, SPC, and cosmetic control).

Capacity (pieces): More than 100 mio pieces  
Production area: 2500 m<sup>2</sup>  
Quality certification: ISO 9001, ISO 14001, SFDA China,  
FDA Type III Drug Master File No. 21315



## The Products

### Vials

Capacity: 1 ml through 25 ml  
Glass: SCHOTT Fiolax® Type I borosilicate glass  
Features:

- Injection and screw neck vials
- Insulin type vials
- Blowback (American and European)
- Printing available from 2009

### Ampoules

Capacity: 1 ml through 20 ml  
Glass: SCHOTT Fiolax® Type I borosilicate glass  
Break system: OPC and Color Break  
Types:

- Closed top
- Flame cut and saw cut
- ID rings and printing possible



# SCHOTT forma vitrum in China

flexibility, quality, reliability



## The Market

As a quality leader in the industry, SCHOTT addresses the high-end market for pharmaceutical packaging. Our products ensure the safe protection and long-term storage of pharmaceuticals, as well as the highest safety and delivery reliability for patients and healthcare personnel.

The plant supplies vials and ampoules to customers in China. In addition, it will also serve as a back-up facility for its sister plant in Indonesia for Asia-Pacific markets. The plant was built in accordance with the same high standards that SCHOTT pharmaceutical packaging sites adhere to around the world.

By supplying pharmaceutical packaging at an international quality level from Suzhou, as a strong partner we can support the Chinese pharmaceutical industry in attaining international quality standards.



## SCHOTT forma vitrum group

SCHOTT forma vitrum is one of the world's leading suppliers of parenteral packaging for the pharmaceutical industry. More than 600 production lines in 12 countries worldwide produce 7 billion syringes, vials, ampoules, cartridges and special articles made of tubing glass or polymer.

Excellent raw materials, state-of-the art manufacturing, the use of the latest technologies, continuous research and development enable developing innovative product solutions meeting the high demands of our customers.



The back-up possibilities offered by our production sites situated all over the world provide flexibility, reliability and security to our partners. Our production sites operate in a GMP environment and our products comply with the international standards USP, EP and JP. SCHOTT forma vitrum – a competent and reliable partner for today and for years to come.



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**SCHOTT**  
forma vitrum

# SCHOTT forma vitrum in Colombia

experience, innovation

SCHOTT Envases Farmacéuticos S.A., manufactures pharmaceutical packaging made from USP Type I tubular glass that meets the highest standards of the pharmaceutical industry in terms of cosmetic and dimensional requirements.

## The Site

SCHOTT's presence in the glass world can be traced back over 125 years. Our state-of-the-art Bogotá, Colombia facility was opened in 1999. ISO 9001, ISO 15378 and ISO 14000 complete our integrated quality system orientation to customer satisfaction at all levels. This makes us a reliable partner for the pharmaceutical, veterinarian and cosmetic industries.

- Capacity (pieces): 240 million
- Production area: 3,500 m<sup>2</sup>



## The Products

### Vials

Capacity: 1 ml through 30 ml  
Glass: Clear and amber  
Quality Levels: StandardLine, ClearLine  
Product Range: Blowback, printed vials, screw neck and crimp neck vials, treated vials and special designs for the lyophilisation process, perfume samples

### Ampoules

Capacity: 1 ml through 20 ml  
Type: Type B, C, D and Marzocchi  
Glass: Clear and amber  
Break systems: Color ring and OPC  
Product range: Treated ampoules, printed ampoules in one or two colors, up to three identification rings



# SCHOTT forma vitrum in Colombia

flexibility, quality, reliability



## The Market

We are committed to provide the best solution for your primary packaging needs. Pharmaceutical companies of the Andean community rely on our quality. We know the importance of a fast, reliable, and profitable filling process for our customers. Innovative and customer-oriented, we produce an excellent container that fulfills your requirements.

## SCHOTT forma vitrum group

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**SCHOTT**  
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# SCHOTT forma vitrum in France

experience, innovation

SCHOTT France SAS is a leading supplier of primary packaging solutions for the pharmaceutical and perfume industries, producing ampoules and perfume vials for the highest quality requirements.

## The Site

Located 100 km south of Paris, SCHOTT France has been manufacturing innovative packaging solutions since 1933. Its high quality products ensure total safety for the end-user as well as excellent machinability on its customers' filling and packing lines. Ampoules are manufactured according to cGMP rules with advanced technologies: high-precision forming process, latest generation of OPC, automatic stem regulation system, automatic tube loading and packaging, advanced statistical tools (SPC), sophisticated automated inspection system (dimension, aspect, printing), clear room. A wide variety of options is available to match special requirements: reduced hydrolytic resistance, treatment with ammonium sulphate, glide finish, etc. SCHOTT France also supplies the most prestigious perfume brands worldwide with its innovative range of perfume vials.

- 170 employees
- 800 million units production capacity
- Certified ISO 15378:2006 and ISO 9001:2008



## The Products

The site produces StandardLine and TopLine quality glass products.

### Ampoules

Capacity: 1 ml to 30 ml  
Glass: Clear and amber, made of glass tubing  
Range: Ampoules for injectables, Flared end, funnel-type and closed ampoules (ISO types B, C and D), Break systems OPC (One Point Cut), CBR (Color Break Ring) and Score Ring, Text silkscreen printing with enamels, Up to 3 coloured code rings for identification

### Perfume Vials

Capacity: 1 ml to 4 ml  
Glass: Clear vials made of AR glass tubing  
Range: Spray give-away samples and tubes, Silkscreen printing with heavy-metal free, precious or standard enamels

# SCHOTT forma vitrum in France

flexibility, quality, reliability



## The Market

SCHOTT France is the competence center for ampoules for SCHOTT Business Segment Pharmaceutical Packaging. The best known pharmaceutical companies worldwide rely on SCHOTT France as their trusted partner for high quality packaging solutions. A strongly committed team, an organization focusing on improvement, efficient manufacturing technologies and processes, as well as highly advanced automated camera inspection systems make it possible for SCHOTT France to deliver top quality products to its partners. For years SCHOTT France has indeed developed strong partnerships with its customers through technical and sales exchanges. SCHOTT France offers tailor-made solutions meeting its customers' most advanced requests and is also proactive in developing new solutions to support the improvement of its customers' processes.

## SCHOTT forma vitrum group

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**SCHOTT**  
forma vitrum

# SCHOTT forma vitrum in Germany

experience, innovation

SCHOTT AG in Muellheim, Germany, is committed to the enhancement of health care with our primary packaging made of glass and polymers. Our innovative solutions for sensitive drugs are highly recognized by the pharmaceutical and diagnostic industries.

## The Site

Located in the triangle formed by Switzerland, France and Germany, our production site benefits from an open spirit which is typical for border areas. We have been providing innovative packaging solutions since 1948. The site produces TopLine, ClearLine and StandardLine quality products of glass, polymer containers, closures, PICVD coated and siliconized containers for high-tech packaging solutions.

- Approximately 200 employees
- 7,000 m<sup>2</sup> of production and warehousing
- Production capacity of 240 million pieces



## The Products

### Glass

- Vials made of tubular glass: from 2 to 100 ml, with or without blow-back, special designs for lyophilization, screw neck vials, tablet bottles
- Siliconized glass vials with baked silicone surface
- Vials with polymer jacket (SCHOTT PURGARD®)

### Polymer

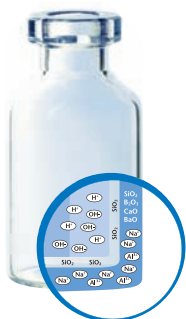
- Vials and cartridges made of COC polymer
- Plastic closure systems and customized moulding

### Coating

- SCHOTT Type I plus® barrier coating for improved chemical stability and inertness
- SCHOTT TopLyo™ vials with hydrophobic coating and adapted geometric design for optimum efficiency of the lyophilisation process

### Syringe components and packaging

- Plungers
- Tubs & nests



# SCHOTT forma vitrum in Germany

flexibility, quality, reliability



## The Market

An increasing number of pharmaceutical and biopharmaceutical companies rely on SCHOTT as their trusted partner for packaging solutions in Central Europe. Coated products are distributed worldwide. It is our goal to find the right solution to meet your needs. Our streamlined structure and flexible organization are perfect foundations for success.



## SCHOTT forma vitrum group

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**SCHOTT**  
forma vitrum

# SCHOTT forma vitrum in Hungary

experience, innovation

As a valued partner to pharmaceutical companies, SCHOTT forma vitrum kft. produces high-quality glass tubing containers for parenteral applications.

## The Site

SCHOTT forma vitrum kft. was founded in 1993 in Lukácsháza, Hungary. Some of the best known pharmaceutical companies from both the domestic and international markets know and appreciate the high quality of SCHOTT forma vitrum kft's products. Modern production equipment as well as the strictly controlled manufacturing processes are key to producing high precision products.

Ampoules, vials and cartridges are manufactured on state-of-the-art fully-automated production machines equipped with opto-electronic control devices. The finished product is then transported on-line to an adjacent clean area to be packed. 100% dimensional controls are applied on all production lines, supported by statistical inspection.

- Over 500 employees
- 20,000 m<sup>2</sup> production area
- 1.7 billion units production capacity



## The Products

1.7 billion insulin cartridges, vials and ampoules are manufactured each year out of clear and amber tubular glass, hydrolytic class I.

- Ampoules from 0.5 to 50 ml according to ISO standards or our customers' special requirements
- Vials from 1 to 30 ml, standard products or customized in a wide variety, with different crimp neck designs, with or without blow-back, with special forms for lyophilization and with screw necks
- Insulin cartridges meet the highest requirements regarding dimensions and cosmetic aspects

Consistently high quality is a key factor in providing our customers with a high level of security.

# SCHOTT forma vitrum in Hungary

flexibility, quality, reliability



## The Market

Multi-national pharmaceutical companies, as well as smaller regional firms, have confidence in our quality.

Innovative and customer-oriented, we also meet new requirements from the new member nations of the European Union, as well as the countries formerly belonging to the Soviet Union. Our focus on strong and long-term relationships based on trust and reliability allows us to grow in developing markets.

Continuous improvement and growth, enable us to meet our customers' ever increasing demands, both in terms of quality and quantity.

## SCHOTT forma vitrum group

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**SCHOTT**  
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# SCHOTT forma vitrum in Indonesia

experience, innovation

SCHOTT Igar Glass is the Asian pharmaceutical packaging center of SCHOTT forma vitrum group.

## The Site

The Cikarang plant was completed in 2002 and is located about 35 km from Jakarta in a contemporary building equipped with advanced machinery and equipment. Our state-of-the-art production facility of 17,000 m<sup>2</sup> with 70 production lines can generate up to 830 million ampoules, vials and pipettes per year. About half of the company's production is exported throughout Asia/Pacific and Europe. Customers include major multinational, national and regional firms - the world's leading pharmaceutical and cosmetic companies.



## The Products

A skilled workforce combined with the latest equipment creates innovative products. This forward-looking approach is supported by continuous improvement in technology and active know-how exchange among SCHOTT forma vitrum group companies.

Our product line covers virtually the entire range of pharmaceutical packaging made of tubular glass. This includes injection and screw neck vials, ampoules, dropper pipettes and diagnostic test tubes. All are made to customer specifications.

High operational standards are assured through ISO 9001, 14001, 15378 and 18001 certified quality systems. Products are batch numbered in a system that is similar to the one used by many pharmaceutical companies, and this enables us to trace products to each record issued during the manufacturing process. Camera control and sensor systems using the latest technology measure each product to assure that it meets the customer's specifications.



# SCHOTT forma vitrum in Indonesia

flexibility, quality, reliability



## The Market

We are committed to provide the best solution for your primary packaging needs. As a creative solution provider for pharmaceutical packaging, we have developed the Key Account Management concept to personalize our support and service.



## SCHOTT forma vitrum group

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**SCHOTT**  
forma vitrum

# SCHOTT forma vitrum in Mexico

experience, innovation

forma vitrum de México, S.A. de C.V. manufactures pharmaceutical packaging made out of tubular glass that meets the highest requirements of the pharmaceutical industry in terms of machinability and stability.

## The Site

Located in the state of Veracruz, this facility started operations in 1989. In 1994 we obtained ISO 9001 certification and in December 2002 ISO 14001. ISO 15378 certification was received in 2007. Technical expertise is combined with the use of the latest technology (in-line measurement control, SPC and cosmetic controls).

- Capacity (pieces): More than 800 million
- Production area: 6,000 m<sup>2</sup>
- Quality certification: ISO 9001, ISO 14001, ISO 15378



## The Products

### Vials

Capacity: 2 ml through 30 ml  
Glass: Clear and amber  
Features: Blowback (American and European), treated, special designs for lyophilisation, screw neck, pilfer proof ring, snap cap, insulin vials

### Ampoules

Capacity: 1 ml through 20 ml  
Glass: Clear and amber  
Break system: OPC, prescored, color band  
Types: B, C, D and Marzocchi  
Features: Treated, printed

### Cartridges

Application: Insulin  
Glass: Clear (only)



# SCHOTT forma vitrum in Mexico

flexibility, quality, reliability



## The Market

Our operations are focused on providing customized solutions of parenteral packaging for the pharmaceutical industry worldwide.

We know the importance of a fast, reliable and profitable filling process for our customers, therefore our job is to produce an excellent container that fulfills these requirements. Working closely with our customers, we ensure that they receive the best quality pharmaceutical packaging. Technical support can also be provided at customers' facilities. Our specialized personnel is trained in topics such as trouble shooting in filling lines, flame adjustment, glass and defect training, container design, etc.



## SCHOTT forma vitrum group

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**SCHOTT**  
forma vitrum

# SCHOTT forma vitrum in Switzerland

experience, innovation

SCHOTT forma vitrum ag and SCHOTT Schweiz AG in St. Gallen, Switzerland, are leading suppliers of primary packaging for the pharmaceutical industry. They have produced high-quality containers such as syringes, vials and cartridges since 1930.

## The Site

Located in the eastern part of Switzerland, SCHOTT forma vitrum has been manufacturing innovative packaging solutions for more than 75 years. Its products meet the highest demands. Quality has always been at the company's focus. A strictly controlled manufacturing process and state-of-the-art production facilities are key to success.

- Over 500 employees
- 30,000 m<sup>2</sup> production area
- 800 million units production capacity for syringes, cartridges and vials



## The Products

The site produces StandardLine, ClearLine and TopLine quality products made of glass and high-tech polymer.

### Syringes

- forma 3<sup>s</sup>® prefillable glass syringes (sterile)
- forma 2<sup>s</sup> glass syringes for bulk production (non-sterile)
- SCHOTT TopPac® prefillable syringes made of COC cyclic olefin copolymer (sterile)

### Cartridges

- Glass cartridges for pen systems

### Vials

- Vials made of tubular glass from 2 to 50 ml, with or without blowback, special designs for lyophilisation, and dual chamber vials
- TopLine, ClearLine & StandardLine qualities



# SCHOTT forma vitrum in Switzerland

flexibility, quality, reliability



## The Market

Pharmaceutical and biopharmaceutical companies worldwide rely on SCHOTT forma vitrum in Switzerland as their trusted partner for competent and innovative packaging solutions. Located here are also the technology centers for vials, syringes and pen cartridges for the Business Segment SCHOTT Pharmaceutical Packaging.

SCHOTT Pharmaceutical Packaging's Product Development and Global Quality Engineering groups are based in Switzerland. These groups develop and optimize products, technologies and processes for all manufacturing sites of Business Segment Pharmaceutical Packaging, and they ensure the same high standards worldwide. This includes, for example, the proprietary development and worldwide roll out of the highly advanced AIS automated camera inspection system.

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**SCHOTT**  
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# SCHOTT forma vitrum in the U.S.

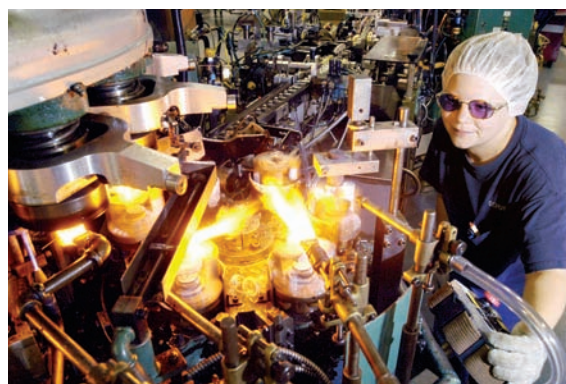
experience, innovation

SCHOTT North America, Inc. Pharmaceutical Systems manufactures pharmaceutical packaging made from USP Type I tubular glass that meets only the highest standards of the pharmaceutical industry in terms of cosmetic and dimensional requirements.

## The Site

SCHOTT's presence in the glass world can be traced back over 125 years. Our state-of-the-art Lebanon, Pennsylvania facility was opened in 2003, after relocating from Cleona, Pennsylvania where it had been in operation since 1985. ISO 9001 certification was obtained in 1996.

- Capacity (pieces): 520 million
- Production area: 9,060 ft<sup>2</sup>



## The Products

### Vials

Capacity: 1 ml through 30 ml  
Glass: Clear and amber  
Quality Levels: StandardLine, ClearLine, TopLine  
Product Range: Blowback (American and European), screw neck and dual chamber vials, treated vials and special designs for the lyophilisation process

### Cartridges

Application: Dental  
Glass: Clear only

### Syringes

forma 2<sup>S</sup>: Bulk syringe set  
forma 3<sup>S</sup>: Sterile syringe set



# SCHOTT forma vitrum in the U.S.

flexibility, quality, reliability



## The Market

Our operations are focused on providing customized solutions of parenteral packaging for the pharmaceutical industry in North America. We know the importance of a fast, reliable, and profitable filling process for our customers; therefore, our job is to produce an excellent container that fulfills these requirements.



## SCHOTT forma vitrum group

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**SCHOTT**  
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