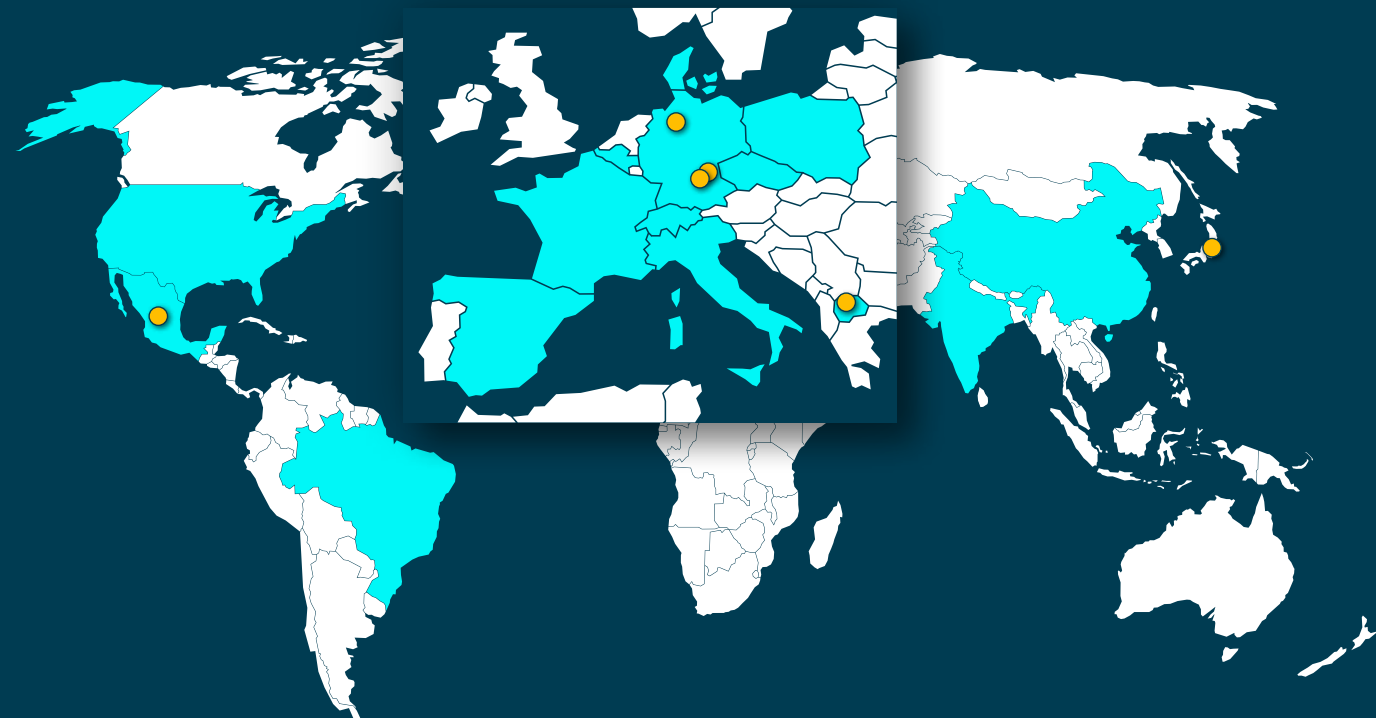


Gx[®] Syringe Platform



Syringe solutions matching your needs

Prefillable syringes provide a trusted, efficient drug delivery format that supports accurate dosing, enhances product safety, and improves patient adherence. We support pharmaceutical manufacturers by providing innovative prefillable syringe solutions that enable them to deliver therapies to patients more safely, efficiently, and conveniently.



Maximilian Vogl
Head of Global Product Management Syringes
Business Development
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Six great reasons to choose Gerresheimer as preferred system and solution partner

Next generation quality

High-end manufacturing quality through next generation syringe forming lines based on Gerresheimer expertise.

Securing supply chain through global sourcing

Local-for-local supply, in Europe as well as in North America where we will continuously expand our global capacity to 1 bn syringes by 2028.

A reliable portfolio suitable for next generation drugs

Providing market-trusted syringe configurations ready for next generation drug products such as e.g. Gx Elite RTF® baked-on or silicone-oil-free.

Risk mitigation with smart packaging solutions

Reducing particle generation within RTF packaging for syringes drastically to decrease potential interactions with particles during handling process.

Easing projects: System and solution provider

Leveraging possible scale effects on further RTF projects within the Gerresheimer portfolio.

Sustainable solutions: Circularity & reduced CO₂

- Concept for reusable packaging material
- One stop shop with local production of the whole syringe system and short delivery routes.
- All products are produced by 100% green electricity.
- Ecovadis Gold 2025

Gx[®] Performance Levels

Gx[®] Choice

Gx[®] Elite

Best-in-class quality and protection for highly sensitive drugs.

Gx[®] Advance

Improved quality for higher efficiency in fill & finish.

Gx[®] Value

Proven solutions in pharmaceutical quality.



For All Your Needs and Applications

To make it as easy as possible for you to find the right Gerresheimer product we have created a consistent structure with three performance levels for our vials, syringes, ampoules and cartridges.

The new classification is based on an understandable systematic with increasing performance from Gx[®] Value up to Gx[®] Elite and clearly defined quality requirements and attributes for each level.

Products at all performance levels passed through multi-stage, strict quality assurance processes and fulfill all regulatory requirements. On all three performance levels we offer several standard products in each product category: a broad range for all needs and applications.

Moreover, with Gx[®] Choice, we also offer you the opportunity to customize products and solutions according to your requirements. Whether you are optimizing for clinical efficiency, patient safety, or brand identity, Gx[®] Choice ensures your product is as unique as your application.

Gx Value RTF[®] Syringes

Proven solutions in pharmaceutical quality.



Our Gx Value RTF[®] syringes are designed for safe and accurate medication delivery. This globally standardized platform provides a reliable sourcing solution with fast time-to-market and efficient supply chains.

Perfectly suited for treatments such as anticoagulants, generics, and veterinary medicine, these syringes ensure ease of use and patient safety.

Product Benefits

- Internationally standardized product**
Full compliance to ISO standards to address pharma quality
- Local-for-local supply**
Secured supply chain by global availability with short lead times
Multiple sources (Gx plant)
- Proven functionality**
Seamless integration into all existing fill & finish equipment
- State-of-the-art material**
Glass tubing and Polymers like COP from all major suppliers available

Product Offerings

	SIN	LL
Sizes	0.5 ml, 1.0 ml long, 1.0 ml standard	1.0 ml long, 1.0 ml standard, 2.25 ml, 3.0 ml
Cannulas	RW, ½" or 5/8", 23–29G	
Closures	RNS	Gx TWILC [®] , Tip Cap
Rubber formulations	4800GS	FM30, W7025, W1883
Finger flange	Small round, Standard round, Cut	Standard round, Cut
Siliconization	Oily siliconized – diving nozzle	Oily siliconized – diving nozzle
Tungsten	Not specified	Not specified

Gx Advance RTF[®] Syringes

Improved quality for higher efficiency in fill & finish.



Gx Advance RTF[®] Syringes deliver efficient fill & finish performance while minimizing total cost of ownership (TCO).

Featuring customizable add-ons, they are ideal for obesity treatments, vaccines, veterinary medicine, and ophthalmic treatments.

Product Benefits

-  **Internationally standardized product**
Full compliance to ISO standards to address pharma quality
-  **Local-for-local supply**
Secured supply chain by global availability with short lead times
Multiple sources (Gx plant)
-  **Proven functionality**
Seamless integration into all existing fill & finish equipment
-  **State-of-the-art material**
Glass tubing and Polymers like COP from all major suppliers available
-  **Improved fill & finish efficiency**
Improved product quality leads to less defects on fill & finish lines with improved performance and reduced TCO
-  **Higher product quality level**
Tighter AQLs, reduced glass-to-glass and glass-to-metal contact leads to reduced cosmetic defects. Increased dimensional consistency for all products.
-  **Advanced system variety**
Additional features available

Product Offerings

	SIN	LL
Sizes	1.0 ml long, 2.25 ml	1.0 ml long, 2.25 ml, 3.0 ml
Cannulas	TW, RW, 27–29G	
Closures	Gx InnoSafe [®] , RNS	Gx TWILC [®]
Rubber formulations	4800GS	FM30, W7025
Finger flange	Small round, cut	Standard round, cut
Siliconization	Oily siliconized – diving nozzle	Oily siliconized – diving nozzle
Tungsten	Specified	Specified

Gx Advance RTF® ClearJect® Syringes

Improved quality for higher efficiency in fill & finish.



Made from high-performance cycloolefin polymer, they ensure optimal biocompatibility and precision with low cosmetic defects.

Ideal for aesthetic applications and seamless fill & finish processing.

Product Benefits

- **Internationally standardized product**
Full compliance to ISO standards to address pharma quality
- **Local-for-local supply**
Secured supply chain by global availability with short lead times
Multiple sources (Gx plant)
- **Proven functionality**
Seamless integration into all existing fill & finish equipment
- **State-of-the-art material**
Glass tubing and Polymers like COP from all major suppliers available
- **Improved fill & finish efficiency**
Improved product quality leads to less defects on fill & finish lines with improved performance and reduced TCO
- **Higher product quality level**
Tighter AQLs, reduced glass-to-glass and glass-to-metal contact leads to reduced cosmetic defects. Increased dimensional consistency for all products.
- **Advanced system variety**
Additional features available
- **Tight dimensional tolerances**
Resulting in optimized residual volume
- **Glue and metal free production**
Ensuring drug stability and patient safety over shelf life
- **Inert barrel material**
Reducing the risk of drug-interaction with the syringe barrel to a minimum
- **Siliconization with high viscosity silicone oil**
Superior break-loose and gliding-forces combined with low particle loads
- **Conformity to ISO 11040-6**
Processable on commercially established fill and finish lines

Product Offerings

	SIN	LL
Sizes	1.0 ml long, 2.25 ml	1.0 ml long
Cannulas	SPTW, 27G	
Closures	RNS	Tip Cap
Rubber formulations	4800GS	FM257
Finger flange	Cut	Cut
Siliconization	Oily siliconized	Oily siliconized
Tungsten	Metal-free	Metal-free

ClearJect® TasPack® Syringes

Improved quality for higher efficiency in fill & finish.



ClearJect® TasPack® syringes are manufactured by our partner Taisei Medical Co. Ltd. in Japan.

Ideal for chronic and autoimmune diseases or viscous medications like hyaluronic acid.

Product Benefits

- **Internationally standardized product**
Full compliance to ISO standards to address pharma quality
- **Local-for-local supply**
Secured supply chain by global availability with short lead times
Multiple sources (Gx plant)
- **Proven functionality**
Seamless integration into all existing fill & finish equipment
- **State-of-the-art material**
Glass tubing and Polymers like COP from all major suppliers available
- **Improved fill & finish efficiency**
Improved product quality leads to less defects on fill & finish lines with improved performance and reduced TCO
- **Higher product quality level**
Tighter AQLs, reduced glass-to-glass and glass-to-metal contact leads to reduced cosmetic defects. Increased dimensional consistency for all products.
- **Advanced system variety**
Additional features available
- **Tight dimensional tolerances**
Resulting in optimized residual volume
- **Glue and metal free production**
Ensuring drug stability and patient safety over shelf life
- **Inert barrel material**
Reducing the risk of drug-interaction with the syringe barrel to a minimum
- **Conformity to ISO 11040-6**
Processable on commercially established fill and finish lines

Product Offerings

	LL
Sizes	0.5 ml, 1.0 ml long, 2.25 ml, 3.0 ml, 5.0 ml
Cannulas	
Closures	Tip Cap
Rubber formulations	P-134
Finger flange	Cut
Siliconization	Oily siliconized
Tungsten	Metal-free

ClearJect® TasPack® Syringes

Improved quality for higher efficiency in fill & finish.



ClearJect® TasPack® syringes are manufactured by our partner Taisei Medical Co. Ltd. in Japan.

Ideal for chronic and autoimmune diseases or viscous medications like hyaluronic acid.

Product Benefits

- 

Internationally standardized product
Full compliance to ISO standards to address pharma quality
- 

Local-for-local supply
Secured supply chain by global availability with short lead times
Multiple sources (Gx plant)
- 

Proven functionality
Seamless integration into all existing fill & finish equipment
- 

State-of-the-art material
Glass tubing and Polymers like COP from all major suppliers available
- 

Improved fill & finish efficiency
Improved product quality leads to less defects on fill & finish lines with improved performance and reduced TCO
- 

Higher product quality level
Tighter AQLs, reduced glass-to-glass and glass-to-metal contact leads to reduced cosmetic defects. Increased dimensional consistency for all products.
- 

Advanced system variety
Additional features available
- 

Tight dimensional tolerances
Resulting in optimized residual volume
- 

Glue and metal free production
Ensuring drug stability and patient safety over shelf life
- 

Inert barrel material
Reducing the risk of drug-interaction with the syringe barrel to a minimum
- 

Conformity to ISO 11040-6
Processable on commercially established fill and finish lines

Product Offerings

	LL
Sizes	0.5 ml, 1.0 ml long, 2.25 ml, 3.0 ml, 5.0 ml
Cannulas	Tip Cap
Closures	P-134
Rubber formulations	Cut
Finger flange	Oily siliconized
Siliconization	Metal-free
Tungsten	

Gx Elite RTF[®] Syringes

Best-in-class quality and protection for highly sensitive drugs.



Our answer for demanding drug products – combining exceptional quality with performance you can trust. Backed up by comprehensive data, these syringes are ready to support pharmaceutical partners throughout drug development and beyond – ensuring smooth integration into existing delivery systems. Manufactured by state-of-the-art technologies, our Gx Elite RTF[®] syringes meet even the highest biopharmaceutical standards.

The flexible platform supports a wide range of applications, including sensitive biologics.

Product Benefits

- **Internationally standardized product**
Full compliance to ISO standards to address pharma quality
- **Local-for-local supply**
Secured supply chain by global availability with short lead times
Multiple sources (Gx plant)
- **Proven functionality**
Seamless integration into all existing fill & finish equipment
- **State-of-the-art material**
Glass tubing and Polymers like COP from all major suppliers available
- **Improved fill & finish efficiency**
Improved product quality leads to less defects on fill & finish lines with improved performance and reduced TCO
- **Higher product quality level**
Tighter AQLs, reduced glass-to-glass and glass-to-metal contact leads to reduced cosmetic defects. Increased dimensional consistency for all products.
- **Advanced system variety**
Additional features available
- **Optimized TCO**
Improved performance on fill & finish lines leads to optimized TCO (lower running / lower overall costs for customers)
- **Highest compatibility for sensitive drugs**
Extractables testing data, fulfils sophisticated pharmaceutical requirements
- **Comprehensive data packages available**
System performance and compatibility data available including data for pharmaceutical requirements.
- **Proven Autoinjector fit**
Ensuring reliable device compatibility & functionality with standard Autoinjector platforms.
- **Reduced risk of tungsten interaction**
Ultra low tungsten residuals or metal-free formed option minimizing risk of protein aggregation.
- **Reduced risk of silicone oil interaction**
Significantly reduced free silicone oil or silicone free configuration, supporting improved drug stability.
- **Optimized cannula penetration forces**
Consistent injection performance and potential reduction of pain sensation.
- **Enhanced RNS pull-off forces**
Balancing integrity with usability

Product Offerings

	SIN	LL
Sizes	1.0 ml long, 2.25 ml	0.5 ml, 1.0 ml long, 2.25 ml, 3.0 ml
Cannulas	TW, UTW, STW, 25–29G	
Closures	InnoSafe [®] , RNS	TELC [®]
Rubber formulations	4900GS, FM30, W7028	FM30, W7028
Finger flange	Small round	Standard round, Cut
Siliconization	Silicone–oil–free Baked–on–siliconization Ultra low oily siliconized – diving nozzle	Silicone–oil–free Baked–on–siliconization Ultra low oily siliconized – diving nozzle
Tungsten	Ultra low oily siliconized – diving nozzle	Ultra low tungsten residuals Metal–free

Gx Elite RTF® ClearJect® Syringes

Best-in-class quality and protection
for highly sensitive drugs.



Our answer for demanding drug products – combining exceptional quality with performance you can trust. Backed up by comprehensive data, these syringes are ready to support pharmaceutical partners throughout drug development and beyond – ensuring smooth integration into existing delivery systems. Manufactured by state-of-the-art technologies, our syringes meet even the highest biopharmaceutical standards. Our COP syringes combine robust performance with outstanding drug compatibility and break resistance.

A smart choice for sensitive biologics, high-viscosity drugs, and patient-friendly delivery.

Product Benefits

- **Internationally standardized product**
Full compliance to ISO standards to address pharma quality
- **Local-for-local supply**
Secured supply chain by global availability with short lead times
Multiple sources (Gx plant)
- **Proven functionality**
Seamless integration into all existing fill & finish equipment
- **State-of-the-art material**
Glass tubing and Polymers like COP from all major suppliers available
- **Improved fill & finish efficiency**
Improved product quality leads to less defects on fill & finish lines with improved performance and reduced TCO
- **Higher product quality level**
Tighter AQLs, reduced glass-to-glass and glass-to-metal contact leads to reduced cosmetic defects. Increased dimensional consistency for all products.
- **Advanced system variety**
Additional features available
- **Optimized TCO**
Improved performance on fill & finish lines leads to optimized TCO (lower running / lower overall costs for customers)
- **Highest compatibility for sensitive drugs**
Extractables testing data, fulfils sophisticated pharmaceutical requirements
- **Comprehensive data packages available**
System performance and compatibility data available including data for pharmaceutical requirements.
- **Suitable for deep cold storage**
(-80°C) suitable solution for gene therapies
- **No tungsten**
residuals due to injection molding process minimizing the risk of protein aggregation
- **Inert Material Choice**
inert material lowering the risk of protein aggregation onto surface
- **Silicone free configuration**
supporting improved drug stability.

Product Offerings

	SIN	LL
Sizes	1.0 ml long	1.0 ml long
Cannulas	STW, 27G	
Closures	RNS	Tip Cap
Rubber formulations	4800GS	FM257
Finger flange	Cut	Cut
Siliconization	Silicone–oil–free	Silicone–oil–free
Tungsten	Metal–free	Metal–free

Components, Add-ons and Services

Thanks to the three performance levels Gx® Value, Gx® Advance and Gx® Elite, you can find the right solution for your needs quickly and easily. In addition, we provide our products as a complete system with a great variety of components, add-ons and services that guarantee a perfect match with our standard products within the three performance levels.

Components and accessories

We offer you suitable caps, plunger stoppers and backstops for our syringes. All components offered meet the highest requirements in terms of safety and user-friendliness. Depending on the application and the fill & finish process, they vary in sizes, material and design.

For Glass Syringes



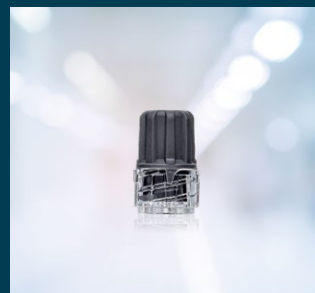
Tip Cap



Rigid Needle Shields



Gx InnoSafe®



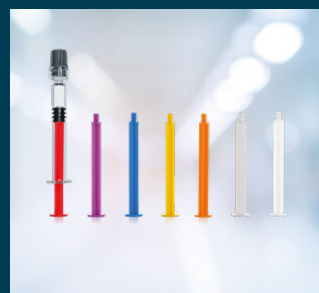
Gx TELC®



Plunger Stoppers



Silicone-Oil-Free
Plunger Stoppers



Gx® Plunger Rods

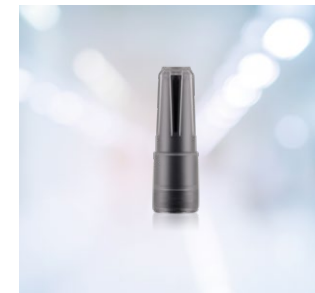


Gx® Backstops

For COP Syringes



Tip Cap



Rigid Needle Shields



Plunger Stoppers



Silicone-Oil-Free
Plunger Stoppers



Gx® Plunger Rods



Gx® Backstops

Container-level traceability



The Gerresheimer traceability system enables complete traceability of our products throughout the value chain: from primary packaging to secondary packaging, and from drug filling and serialization up to the final application at the PoC. Therefore traceability helps to increase patient safety and fight counterfeiting. Data can be linked to individual products, analyzed and evaluated via our powerful digital infrastructure.

Accredited Lab Services



Our analytical services help you to determine the perfect glass packaging solution for your drug molecules. Whether material and mechanical testing, non-conformance identification, performance testing or elemental extractables testing – we are pleased to support you with our dedicated lab capabilities.

About Gerresheimer

Gerresheimer is an innovative systems and solutions provider and a global partner for the pharma, biotech and cosmetic industries. The Group offers a comprehensive portfolio of drug containment solutions including closures and accessories, as well as drug delivery systems, medical devices and solutions for the health industry. The product range includes digital solutions for therapy support, medication pumps, syringes, pens, auto-injectors and inhalers as well as vials, cartridges, ampoules, tablet containers, infusion, dropper and syrup bottles and more. Gerresheimer ensures the safe delivery and reliable administration of drugs to the patient. Gerresheimer supports its customers with comprehensive services along the value chain and in addressing the growing demand for enhanced sustainability. With over 40 production sites in 16 countries in Europe, America and Asia, Gerresheimer has a global presence and produces locally for regional markets. Together with Bormioli Pharma, the Group generated revenues of around EUR 2.4bn in 2024 and currently employs around 13,600 people. Gerresheimer AG is listed in the MDAX on the Frankfurt Stock Exchange (ISIN: DE000A0LD6E6).