



www.zemleypharma.com
www.nbzhengli.com



info@zemleypharma.com



Global Leader
in **Pharmaceutical
Packaging** and Drug
Delivery Solutions

Utek 友德國際股份有限公司

<http://www.utekinco.com.tw>

統編：12682542

- 總公司：台北市內湖區瑞湖街103號 6樓
TEL：02-2799-3339 FAX：02-2799-3331
- 台中市西區市府路39號7樓之5
TEL：04-2222-3998 FAX：04-2223-3998

- 台南市永康區小東路689-8號4樓之2
TEL：06-311-3636 FAX：06-511-6100
- 高雄市鼓山區華榮路250號8樓A室
TEL：07-555-5595 FAX：07-555-5591

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ZHENGLI GROUP

Empowering Health,
Enriching Lives

*"Make sure the packaging remains
the ultimate safeguard for the
medication."*

— CEO Ye Huan

PRODUCT SECTION

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VIALS

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ABOUT US

Global Leader in
Pharmaceutical Packaging and Drug Delivery Solutions

Ningbo Zhengli Pharmaceutical Packaging Co., Ltd.

Located in Ningbo, Zhengli Pharmaceutical Packaging was founded in 1991, our core focus is to provide pharmaceutical packaging and drug delivery system solutions for pharmaceutical companies.

We maintain top-notch quality standards through strict adherence to **GMP** standards. Our advanced facilities span over **120,000 m²**, featuring state-of-the-art production units, with **D, C, A level clean rooms** and a leading domestic lab center. This dedication fuels an annual production capacity exceeding **2.5 billion**.

As a leader in pharmaceutical packaging, Zhengli pioneers research in innovative materials and precision drug delivery systems. We provide top-quality pharmaceutical solutions such as **Vials, Cartridges, Prefillable syringes, Ampoules, and Injection pens**, and also products like **Polymer based (COP/COC) items**. These cater to various sectors including **vaccines, biological drugs, cells and gene therapy, medical and aesthetic injections**, etc.

120,000 m² **2.5 billion**
GMP standard plant Annual production capacity

30+ Years
Glass experience



ZHENGLI

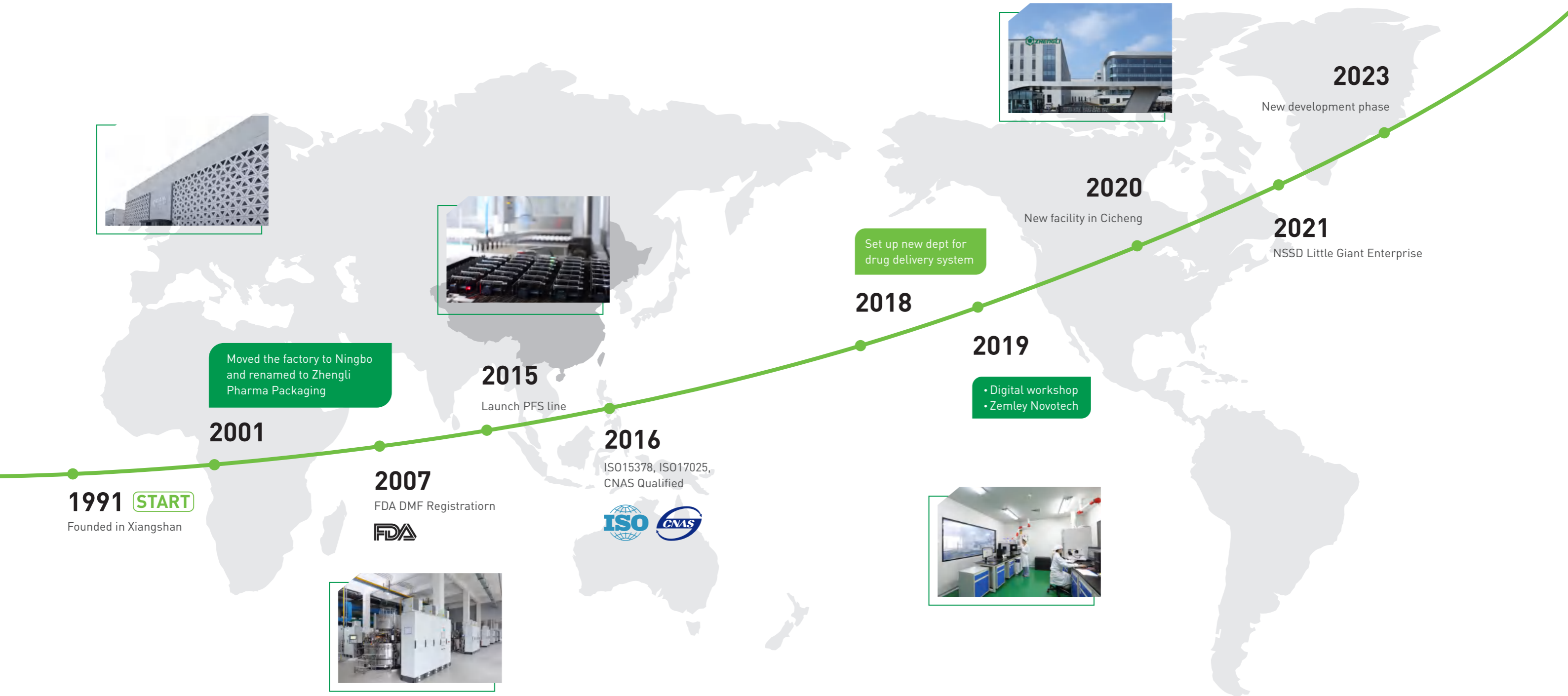
DIGITAL
INTELLIGENT
ACCURATE
SWIFT
REFINED



宁波正力药品包装
NINGBO ZHENGLI PHARMACEUTICAL

MILESTONE

ZHENGLI GROUP



Global Leader in **Pharmaceutical Packaging**
and Drug Delivery Solutions

VIALS

Vials are the main product of Zhengli.

Compliant with **ISO standards** and **YBB**, these vials exhibit excellent physical and chemical properties, making them the top choice for packaging pharmaceuticals.

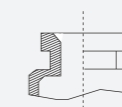
We also accept customized sizes.

Information

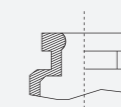
- ✔ Range between 2R - 50R
- ✔ Available in clear and amber using glass types I
- ✔ Vials with different Blowback EBB, ABB or NBB
- ✔ Enhanced quality in the labeling process for optimal results
- ✔ Exceptional resistance to high thermal shocks
- ✔ DMF document available upon request

Applications

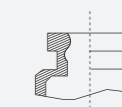
- ✔ Vaccines
- ✔ Biologics
- ✔ Antibiotics
- ✔ Antitumors
- ✔ Genetics
- ✔ Medical aesthetics, etc.



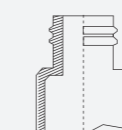
No Blowback



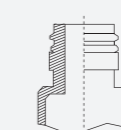
European Blowback



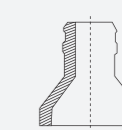
American Blowback



Screw Neck



Pilfer Proof



Snap-On

Characteristics



Granule water resistance



Internal stress $\leq 40\text{nm/mm}$



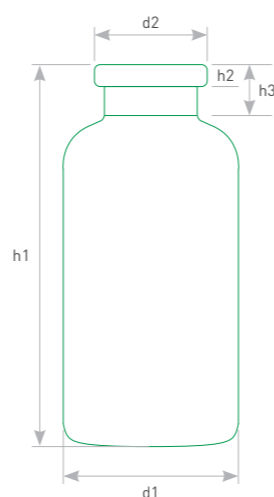
Water resistance of inner surface



Various specifications are available and can be customized

Parameters

| Size \ Spec | Brimful Capacity ml | d1 | d2 +0.2-0.3 | d4 ±0.2 | h1 | s1 |
|-------------|---------------------|---------|-------------|---------|--------|----------|
| 2R | 4±0.5 | 16±0.15 | 13 | 7 | 35±0.5 | 1±0.04 |
| 4R | 6±0.5 | 16±0.15 | 13 | 7 | 45±0.5 | 1±0.04 |
| 6R | 10±0.5 | 22±0.2 | 20 | 12.6 | 40±0.5 | 1±0.04 |
| 8R | 11.5±0.5 | 22±0.2 | 20 | 12.6 | 45±0.5 | 1±0.04 |
| 10R | 13.5±1 | 24±0.2 | 20 | 12.6 | 45±0.5 | 1±0.04 |
| 15R | 19±1 | 24±0.2 | 20 | 12.6 | 60±0.5 | 1±0.04 |
| 20R | 26±1.5 | 30±0.25 | 20 | 12.6 | 55±0.7 | 1.2±0.05 |
| 25R | 32.5±1.5 | 30±0.25 | 20 | 12.6 | 65±0.7 | 1.2±0.05 |
| 30R | 37.5±1.5 | 30±0.25 | 20 | 12.6 | 75±0.7 | 1.2±0.05 |
| 50R | 62±4 | 40±0.4 | 20 | 12.6 | 7±0.75 | 1.5±0.07 |



Stoppers

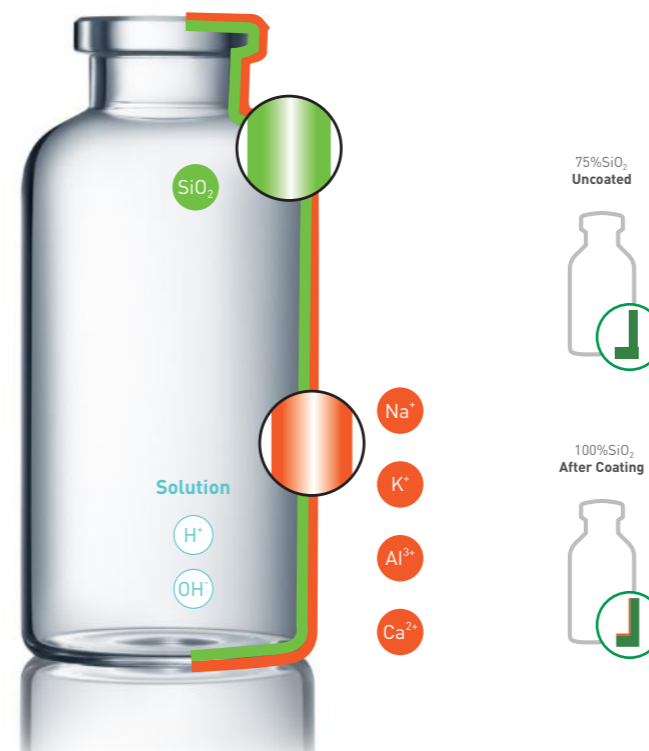
| Supplier | Formulation | Material | Size |
|----------|-------------|-----------|---------|
| Datwyler | FM257 | BIIR | 13/20mm |
| | FM457 | BIIR | |
| | FM460 | BIIR | |
| | FM140 | CIIR | |
| | FM701 | CIIR | |
| West | 2116 | | |
| | 4432 | BIIR | |
| | 4023 | | |
| Local | TBC* | CIIR/BIIR | |



CUSTOMIZATIONS

Inorganic Siliconized

✓ Zhengli implements cutting-edge machinery to achieve precise silicon dosage and uniform distribution of silicon oil, ensuring optimal drug-container compatibility.



Siliconization

✓ Zhengli offers premium siliconized packaging, enhancing glass durability and maximizing product value or delicate pharmaceutical needs.

Frosted Glass

✓ The surface of containers can be frosted and colored at the same time according to customers requirements, to make it suitable for holding cosmetic and special drug.



Silkscreen & Laser Print

✓ High quality laser marking machines to implement graduation.

PREFILLABLE SYRINGES

These pre-fillable syringes **enhance convenience, accuracy,** and **reduce the risk of dosage errors,** and **reduce waste.**

We also accept customized sizes.



Information

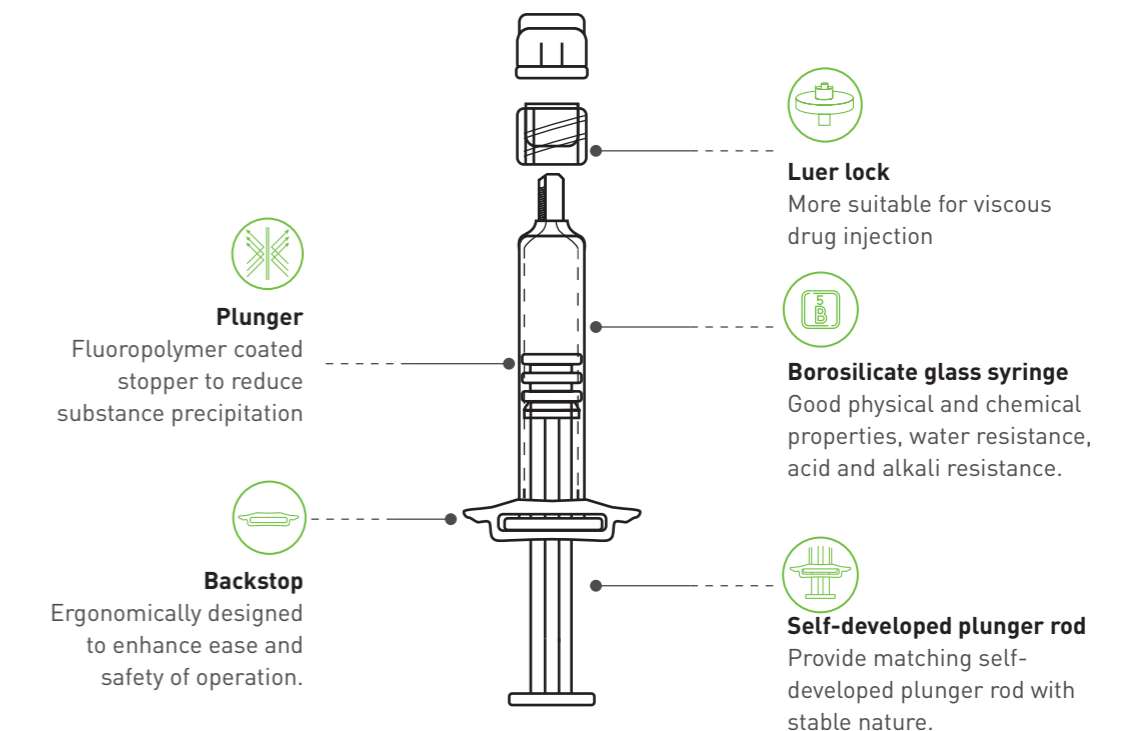
- ✔ Range from 0.5ml - 3ml
- ✔ Ready to use format
- ✔ Glass Type I
- ✔ Syringes can be provided as a complete system with plunger stopper, plunger rod, and backstop
- ✔ Syringe type: With Needle, With Luer lock, With Luer cone
- ✔ Needle Dia: 25G, 27G, 29G
- ✔ Bevel: 3 Bevel, 5 Bevel
- ✔ Sterilized: ETO sterilization
- ✔ DMF document available upon request

Applications

- ✔ Vaccines
- ✔ Biologics
- ✔ Oncology
- ✔ Anticoagulation
- ✔ Emergency drugs
- ✔ Medical aesthetics, etc.



Characteristics

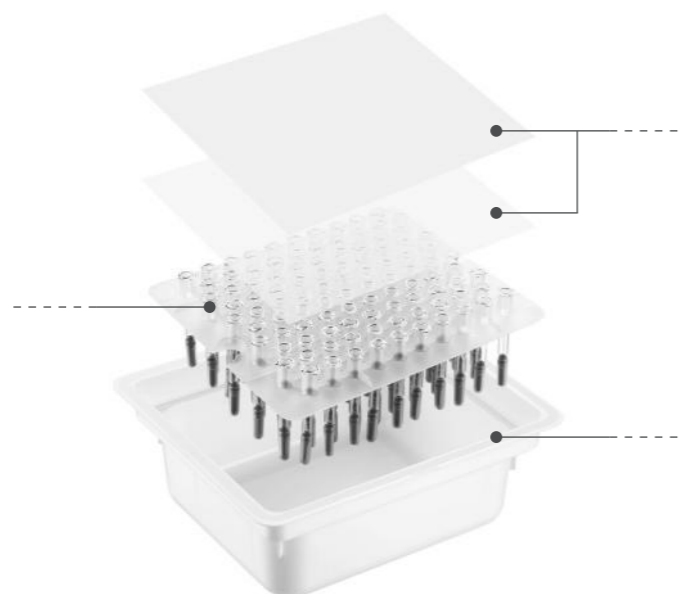


| Specification | Diameter | Stacked Needle | Luer Cone | Luer Lock |
|---------------|----------|---------------------|-----------|-----------------------|
| | | Rigid Needle Shield | Tip Cap | Plastic Rigid Tip Cap |
| 0.5ml | 6.85mm | ✓ | ✓ | ✓ |
| 1ml Long | 8.15mm | ✓ | ✓ | ✓ |
| 1ml | 10.85mm | ✓ | ✓ | ✓ |
| 1.5ml | 10.85mm | ✓ | ✓ | ✓ |
| 2.25ml | 10.85mm | ✓ | ✓ | ✓ |
| 3ml | 10.85mm | ✓ | ✓ | ✓ |

Packaging

Easy Filling Antimicrobial Ventilation Aseptic Delivery Direct Filling Reduced Costs Versatile and Flexible

Ready-to-use components that meet regulatory standards for a comprehensive container solution, eliminating additional processing steps.



Ethylene Oxide (ETO) sterilized, double-layered Tyvek™ for dust containment and sealing, with a breathable bag for bacteria control and breathability.

Vials, Cartridges and Pre-fillable syringes are available in nested and tray packages.



Suitable for direct use in pharmaceutical companies and research institutions.

Formulations

✓ With/Without Needle/ Luer Lock

| Supplier | Formulation | Material |
|----------|-------------|-----------|
| Datwyler | FM257 | BIIR |
| | FM457 | BIIR |
| | FM460 | BIIR |
| | FM140 | CIIR |
| | FM701 | CIIR |
| West | 2116 | BIIR |
| | 4432 | |
| | 4023 | |
| | 7028 | |
| Local | TBC* | CIIR/BIIR |

TBC: To Be Confirmed

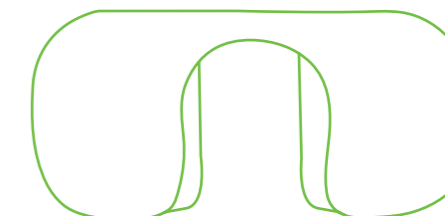
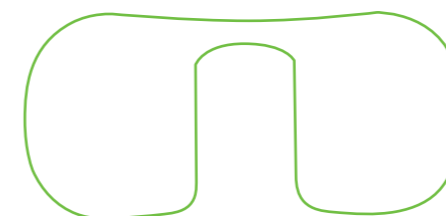
Plungers

| Supplier | Formulation | Material |
|----------|-------------|-----------|
| Datwyler | FM257 | BIIR |
| | FM457 | BIIR |
| | FM460 | BIIR |
| | FM140 | CIIR |
| | FM701 | CIIR |
| West | 2116 | BIIR |
| | 4432 | |
| | 4023 | |
| Local | TBC* | CIIR/BIIR |

TBC: To Be Confirmed

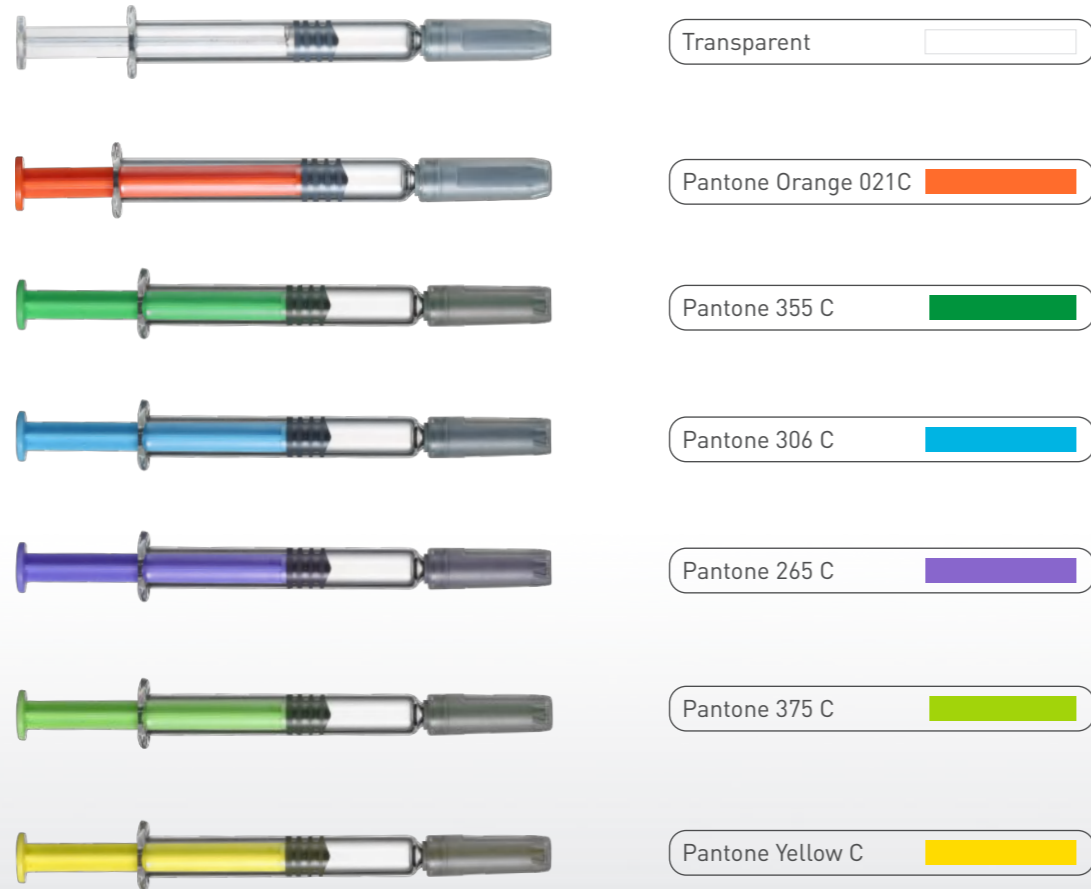
Backstops

✓ Backstop ensures reliability, building client confidence by guaranteeing service even in unexpected situations. It's a fail-safe for commitments, demonstrating dedication to client needs.



AVAILABLE PLUNGER ROD COLOURS

✔ Our product range includes an extensive variety of plunger sourced from top-tier providers such as Datwyler, and West, also from Chinese local producer. We provide diverse options in terms of size, material, and quality, available either as 'ready-to-use'. Tailored to meet specific customer needs.



POLYMER PRODUCTS

Our recent addition to our existing product line offers customers the widest selection of Pre-Fillable Syringes (PFS), and Vials, as it is offered in **COP** (Cyclic Olefin Polymer) and **COC** (Cyclic Olefin Copolymer) materials.

COP

✔ Made from high-performance Cyclic Olefin Polymer, COP PFS, vials ensures the integrity and safety of sensitive drug formulations with excellent chemical resistance and minimal extractables.

COC

✔ COC PFS blend COP advantages with polyolefins, offering superior strength and clarity for various pharmaceutical uses.

Applications

Polymer Syringe

- ✔ Medical and healthcare
- ✔ Laboratory and research
- ✔ Cosmetics and beauty
- ✔ Veterinary medicine

Polymer Vial

- ✔ Pharmaceuticals
- ✔ Biotechnology and life sciences
- ✔ Chemicals and reagents
- ✔ Food and beverages



CARTRIDGES

Precision in medication delivery. These specialized containers, **made of neutral borosilicate glass**, are designed to **accurately** and **safely deliver** a specific dosage of medication.

We also accept customized sizes.

Information

- ✓ Range between 1.5ml, 1.8ml, and 3ml.
- ✓ Glass Type I
- ✓ State-of-the-art production technologies
- ✓ 100% in-line camera monitoring
- ✓ DMF document available upon request

Applications

- ✓ Insulin
- ✓ Growth hormone
- ✓ GLP-1
- ✓ Anesthesia, etc.

| Format. | h1 | h2 | h3 | d1 | d2 |
|---------|----------|---------|---------|-----------|----------|
| 1.5ml | 57.0±0.2 | 5.0±0.2 | 2.9±0.1 | 8.65±0.1 | 7.15±0.2 |
| 1.8ml | 62.0±0.4 | 5.0±0.2 | 2.9±0.1 | 8.65±0.1 | 7.15±0.2 |
| 3ml | 62.3±0.4 | 5.0±0.2 | 2.9±0.1 | 11.6±0.15 | 7.15±0.2 |







CombiSeals

| Supplier | Formulation | Material |
|----------|------------------|-----------|
| Datwyler | FM257 + H1-7-207 | BIIR |
| | FM457 + H1-7-207 | BIIR |
| | FM460 | BIIR |
| | FM140 | CIIR |
| | FM701 | CIIR |
| West | 2116 | |
| | PH701 | BIIR |
| | 4432 | |
| | 4023 | |
| Local | TBC* | CIIR/BIIR |



Characteristics



-  100% in-line camera inspection
-  Stable forming process with minimal product geometric tolerance
-  Strict temperature control technology enhances mechanical strength and ensures safe and convenient use
-  Compatible with a variety of injection equipment, matching the flexible application needs of pharmaceutical companies



AMPOULES

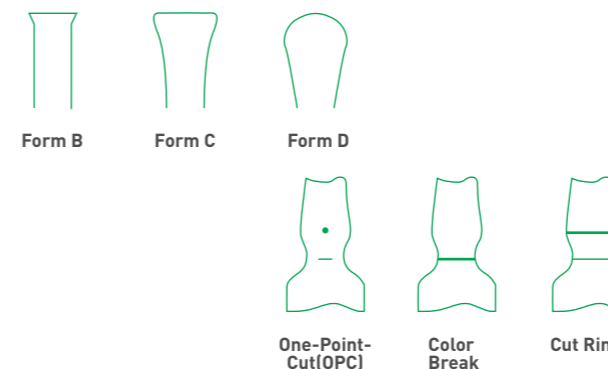
Zhengli introduces foreign high-end equipment to ensure the smooth breaking surface of the ampoule to a greater extent, making it simple and safe to open the ampoule, and bringing better product experience to users while reducing pollution.

Information

- ✔ ISO Form B, C and D, or as customer request
- ✔ Range from 1ml - 30ml
- ✔ Glass Type I
- ✔ Design: OPC (One Point Cut), CBR (Color Break Ring) and SCR (Score Ring) forces
- ✔ Color Ring: Up to three colored coded identification rings or customized ceramic Printing

Applications

- ✔ Pharmaceutical
- ✔ Personal care and cosmetics
- ✔ Drugs



Characteristics



100% in-line camera inspection



Excellent surface durability for long-lasting protection of pharmaceuticals



Introducing foreign high-end equipment to ensure smooth cross-section and make the bottle opening operation simple and safe



Reduce pollution while providing users with a better product experience

READY TO USE

We operate a **washing** and **drying** assembly line under pharmaceutical-grade clean conditions. This makes it apt for direct filling and utilization in pharmaceutical companies, research institutions, and labs.



Advantages

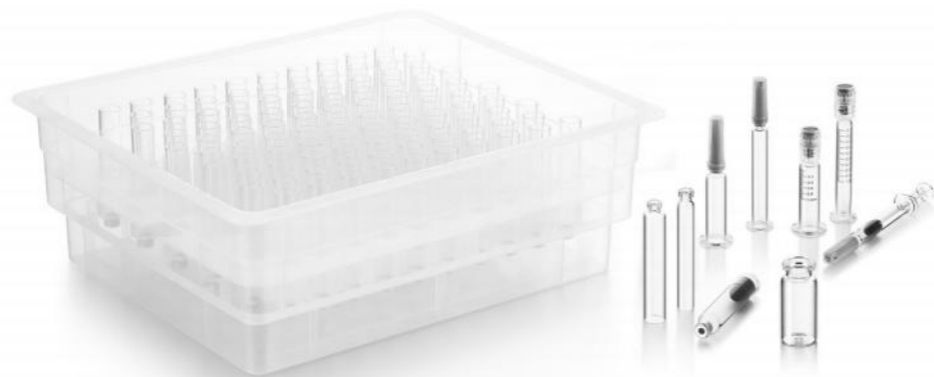
- ✔ Time saving and efficiency
- ✔ Minimal waste and environmental impact
- ✔ Ease of storage and inventory management
- ✔ Reduced risk of contamination

Available

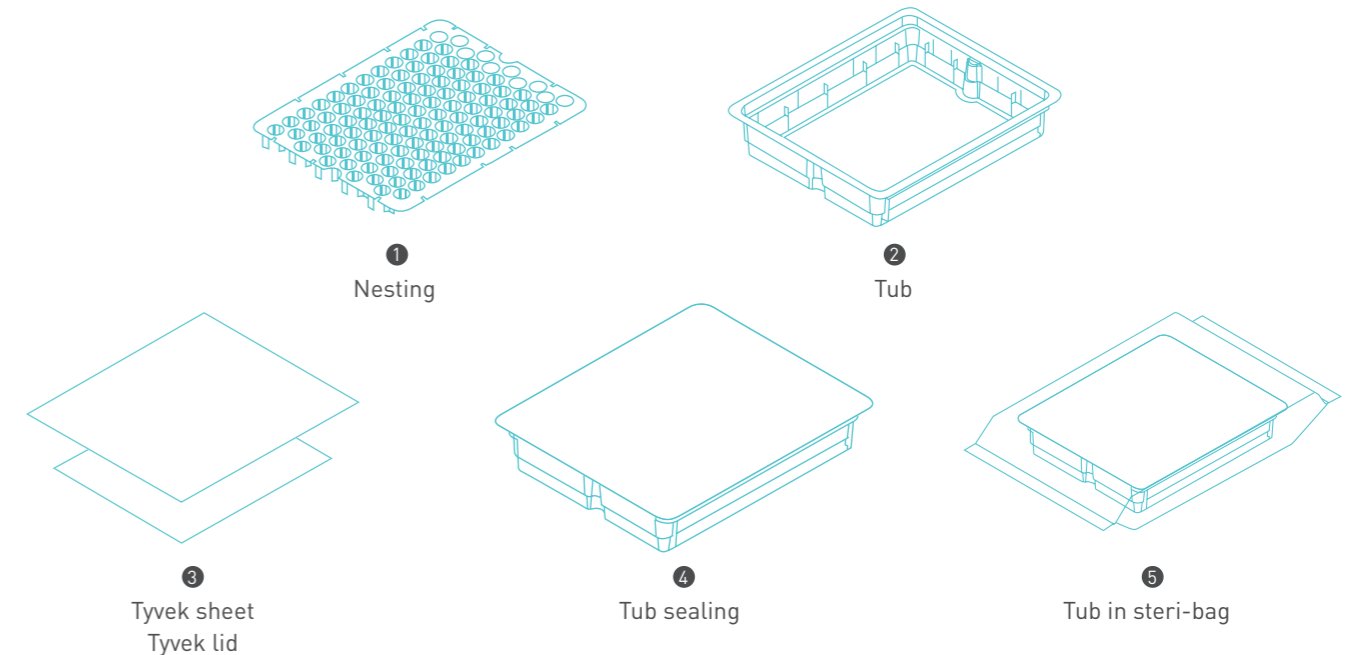
- ✔ Prefillable Syringes
- ✔ Vials
- ✔ Cartridges
- ✔ COP Syringes
- ✔ COP Vials

Applications

- ✔ Pharmaceutical
- ✔ Personal care and cosmetics
- ✔ Drugs



Packing



AUTO INJECTION PENS

Cartridge Injectors

An injector with cartridge ensures precise and controlled drug delivery using advanced mechanisms and high-quality materials.



PFS Injectors

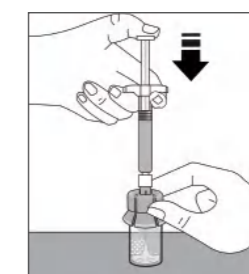
Combining an injector with prefillable, high-quality syringes ensures precise dosing, enhancing both patient experience and healthcare professional efficiency.



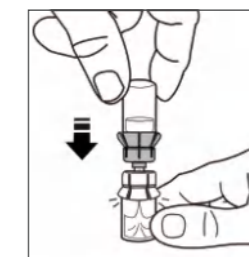
| | |
|---------------------------------|-------------------|
| Adaptation container | 1ml long, 2.25ml |
| Liquid filling quantity | 0.2-2.25ml |
| pipe diameter | 6.85ml |
| Liquid viscosity | ≤ 25cP |
| Needle diameter | ≥ 27G |
| Injection time | < 15s |
| Needle insertion and retraction | Automatic |
| Needle depth | 6-8mm |
| End of injection feedback | hearing or vision |

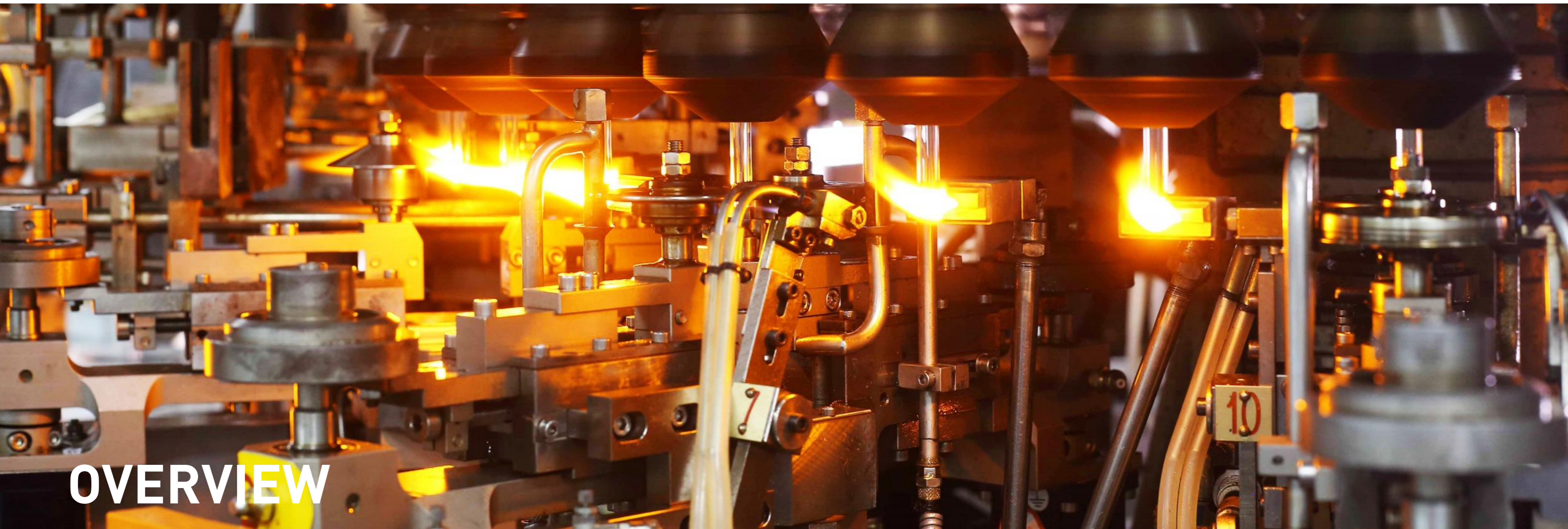
Vial Adapters

✓ **Vial Adapter** is a sterile, single-use medical device designed for non-invasive drug transfer and mixing from vials. It features an integral plastic spike at its center to puncture vial closures. Its packaging and cover ensure sterility and facilitate easy attachment to drug vials.



✓ **Transfer Device** is a one-time-use, sterile tool comprising two vial adapters joined via Luer ports following reconstitution, the drug can be prepared for administration by detaching the diluent vial and attaching a syringe to the female Luer port.





OVERVIEW

Features

- ✔ Controlled forming temperature for precision.
- ✔ High-res cameras ensure quality checks.
- ✔ Automatic adjustments during glass forming.
- ✔ Certified clean rooms in production.
- ✔ Advanced prewashing and strengthening.
- ✔ Detailed data recording for quality analysis.

Forming at Zhengli embodies precision through controlled and efficient processes.

Annealing ensures glass strength and resilience through carefully controlled heating and cooling processes.

All packaging process is done automatically in clean room.



LABORATORY

Our inhouse lab covers 300m², fully equipped with all the advanced machines to carry out qualified testing for products.

Features

- ✓ We construct testing rooms to ensure all **raw materials, in-process products, finished goods**, and the production environment meet rigorous **quality standards**. We conduct **regular, randomized** tests on **every batch** to uphold **quality assurance**.
- ✓ Reflective/transmissive B&D field metallurgical microscope



CERTIFICATES



ISO14001



ISO13485



ISO15378



ISO45001



CNAS

Our retention room is designed for secure storage of products over **five years**, emphasizing quality maintenance and efficient organization. It's a vital component of our long-term inventory strategy, ensuring safe and accessible product preservation.

