



Wanhai Medical

# Wanhai Medical

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China's Premium Injection Pen Manufacturer.



Improving Patient Experience • Advancing  
Biopharmaceutical Innovation



**COST-EFFECTIVE  
EXCELLENCE**

Dedicated to five consecutive years  
of price reductions

# ► About Wanhai

Founded in 2016, specializes in the R&D, manufacturing, and sales of various pen injectors. It has been awarded the national titles of "National High-Tech Enterprise" and "Specialized, Sophisticated, and Innovative Enterprise".

The company currently has a plant area of 12,000-square-meters, and a new 36,000-square-meter under construction. There are more than 300 employees, including over 50 senior R&D engineers, graduates of leading science and technology universities, 20+ specialists in the regulatory affairs, 20+ specialists in the quality assurance, and 20+ professionals in the Sales & Marketing. Now, Wanhai Medical has the ability to consistently produce 90 million disposable and reusable pen injectors annually. Upon completion of our new facility, Wanhai Medical will establish an automated, intelligent production base with a total annual capacity of 400 million units.

With Wanhai Medical vertically integrated industrial layout, consistently high standards, efficient customer service and support, exceptional value proposition, it has earned wide recognition in global markets.

To date, Wanhai Medical has provided products and integrated services to over 180 renowned pharmaceutical companies, serving clients across more than 60 countries and territories worldwide.



Facility Size

+ **12,000sqm** (Current)  
+ **36,000sqm** (Expanding)



Workforce

**300+**



Annual Capacity

+ **90M** (Current)  
+ **310M** (Expanding)



Global Clients

**180+**



Countries & Regions

**60+**



# ► Accreditations & Honors

Wanhai Medical holds CE Certification issued by TÜV SÜD, ISO 13485 Certification, NMPA Class II Medical Device License (Jiangsu Medical Products Administration), Pharmaceutical Packaging Filing (NMPA CDE), and FDA Submission (Under Review).

Wanhai Medical holds 50+ Patents for pen injector technologies and product quality inspection reports issued by 30+ Third-Party Test Reports from internationally accredited labs. The core product patents have passed FTO Validation by leading IP agencies for global freedom-to-operate to ensure no infringement risks in global sales. The products have undergone long-term large-scale commercial verification, with excellent, stable and reliable performance.

## Corporate Recognition



National High-Tech Enterprise



Specialized, Sophisticated,  
and Innovative Enterprise

## International Certification



CE Certification  
(Issued by TÜV SÜD)



ISO 13485 Certification  
(Medical Device QMS)



FDA Certificate  
(Under Authentication)

## Domestic Certification



NMPA Class II Medical Device Registration



Pharmaceutical Packaging  
Material Certification

## Intellectual Property



50+ Patents for injection pen technologies.

## R&D Excellence



Core products cleared via freedom-to-operate analysis by leading IP agencies.

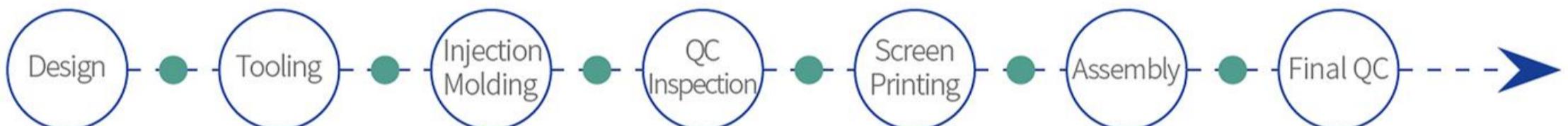


Senior R&D Engineers Advanced degrees from globally-recognized STEM universities.

# ► Manufacturing Excellence

Global Tier-1 raw material sourcing.

Leveraging fully automated smart manufacturing for a vertically integrated production system.



## TOOLING CENTER

50+ Advanced Mold Fabrication Systems



▲ Makino EDM



▲ Makino CNC



▲ Sodick WE



▲ Sodick EDM

## METROLOGY LAB



▲ Hexagon CMM(Coordinate Measuring Machine)



▲ Mitutoyo Projectors (Precision Optical Measurement)

## INJECTION MOLDING CENTER

70+ Sumitomo Demag Electric Molding Machines (e-mac)



▲ Cleanroom Molding Zone(Class 100,000) SE50-100 series



▲ Standard Molding Group 1 SE100-180 series



▲ Standard Molding Group 2 SE180-220 series



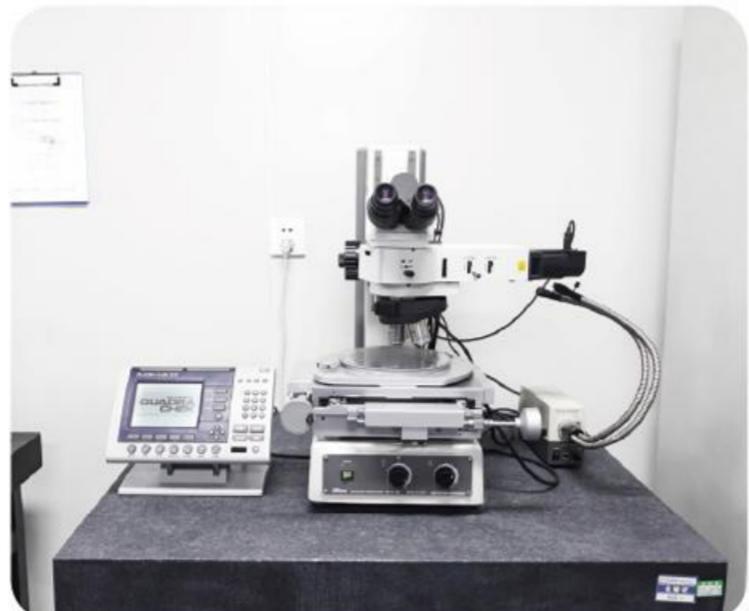
▲ Standard Molding Group 3 SE220 series

## SCREEN PRINTING & ASSEMBLY

Class 100,000 Cleanroom Environment | Fully Automated Production Line | Assembly with Inline QC Inspection



## QUALITY ASSURANCE LABORATORY



▲ QA Lab

▲ Nikon Vision Measurement System (VMS)

▲ Mitutoyo Optical Comparator

# ► Product Showcase

## Client-Driven Customization

We engineer Pen Injector to your exact specifications:

Color Schemes & Packaging Design | Dosing Mechanism Optimization | End-to-End URS Compliance Documentation



WH-DC | Disposable Pen Injector



Application	Cartridge Size (mL)	Min. Deliverable Dose (mL)	Dosing Increments	Dosing Range (mL)
Semaglutide	3	0.0125	30	0-0.375
	3	0.0125	60	0-0.75
Tirzepatide	3	0.01	60	0-0.60
Liraglutide	3	0.01	30	0-0.30
	3	0.01	50	0-0.50
Teriparatide	3	0.005	16	0-0.08
Insulin Glargine, Insulin Aspart, Biphasic Insulin Aspart 30, Biphasic Insulin Aspart 25, NPH Insulin	3	0.01	60	0-0.60
Insulin Degludec and Liraglutide	3	0.01	50	0-0.50



WH-DB | Disposable Pen Injector



Application	Cartridge Size (mL)	Min. Deliverable Dose (mL)	Dosing Increments	Dosing Range (mL)
Growth Hormone	1.5	0.02	25	0-0.50
Tirzepatide	3	0.01	60	0-0.60



## WH-DE | Disposable Pen Injector



Application	Cartridge Size (mL)	Min. Deliverable Dose (mL)	Dosing Increments	Dosing Range (mL)
Semaglutide	3	0.01	74	0-0.74
	3	0.0125	30	0-0.375
	3	0.0125	60	0-0.75
	3	0.0156	48	0-0.75
Tirzepatide	3	0.01	60	0-0.60
Liraglutide	3	0.01	30	0-0.30
	3	0.01	50	0-0.50
Teriparatide	3	0.01	8	0-0.08
	3	0.005	16	0-0.08
Follicle-Stimulating Hormone (FSH)	3	0.0208	36	0-0.75
Insulin Glargine, Insulin Aspart, Biphasic Insulin Aspart 30, Biphasic Insulin Aspart 25, NPH Insulin	3	0.01	60	0-0.60
Insulin Degludec	3	0.01	80	0-0.80
Insulin Degludec and Liraglutide	3	0.01	50	0-0.50
Growth Hormone	3	0.0075	60	0-0.45



## WH-DG | Disposable Auto-Injector Pen (Multi-Dose)



Application	Cartridge Size (mL)	Min. Deliverable Dose (mL)	Dosing Increments	Dosing Range (mL)
Semaglutide	1.5	0.01	37	0-0.37
	3	0.01	74	0-0.74
Tirzepatide	3	0.01	60	0-0.60
Insulin Degludec	3	0.01	80	0-0.80
Insulin Degludec and Liraglutide	3	0.01	50	0-0.50



WH-RA | Reusable Pen Injector



WH-RA2



WH-RA3



WH-RA4

Application	Cartridge Size (mL)	Min. Deliverable Dose (mL)	Dosing Increments	Dosing Range (mL)
Semaglutide	3	0.0125	30	0-0.375
	3	0.0125	60	0-0.75
Tirzepatide	3	0.01	60	0-0.60
Liraglutide	3	0.01	30	0-0.30
	3	0.01	50	0-0.50
Teriparatide	3	0.005	16	0-0.08
Insulin Glargine, Insulin Aspart, Biphasic Insulin Aspart 30, Biphasic Insulin Aspart 25, NPH Insulin	3	0.01	60	0-0.60
Insulin Degludec	3	0.01	80	0-0.80
Insulin Degludec and Liraglutide	3	0.01	50	0-0.50
Growth Hormone	3	0.0075	60	0-0.45



Application	Refill(mL)	Dose Range(mL)
Tirzepatide		
Semaglutide		
Adalimumab		
Alirocumab	1	0.15-1.00
Ixekizumab		
Secukinumab		
Omalizumab		
Adrenaline		
Sarilumab		
Omalizumab		
Fremanezumab	2.25	0.50-2.00
Secukinumab		
Dupilumab		
Alirocumab		



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