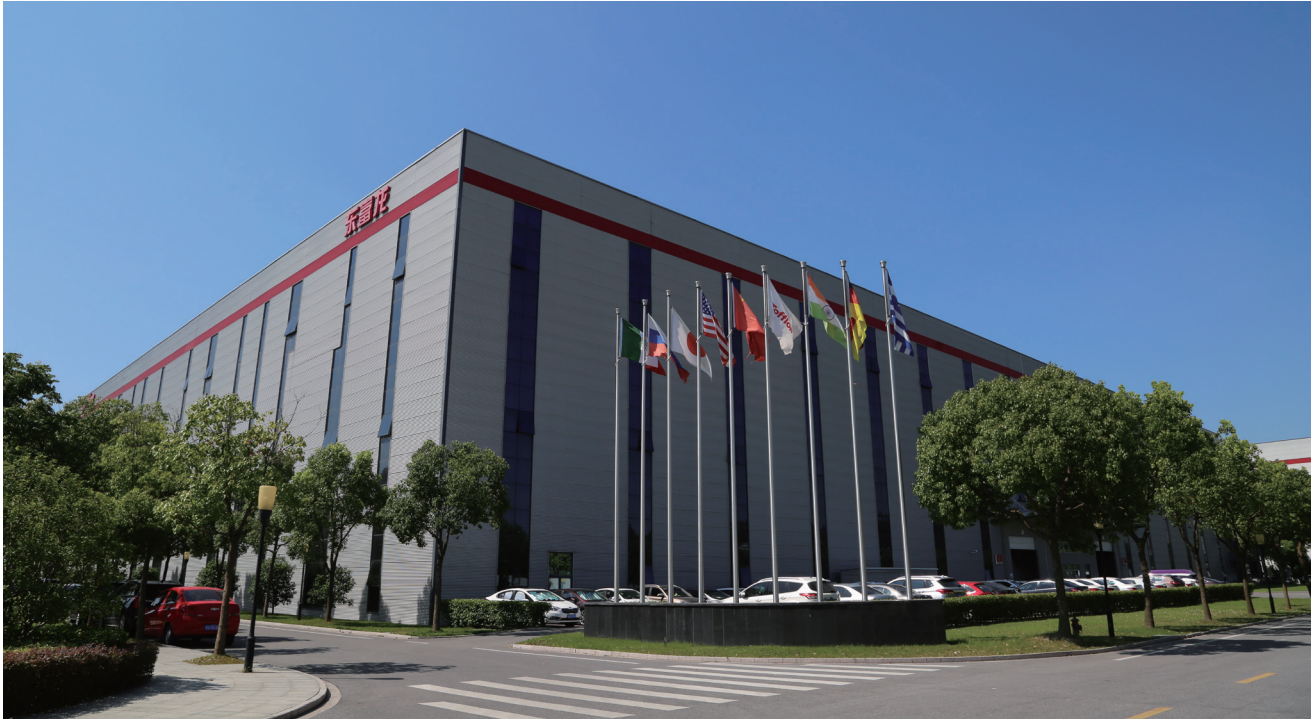


**Tofflon**



**STOSTE SUBPACKAGE  
SYSTEM**

# Tofflon Life Science Co.,Ltd.



**F**ounded in 1993, Tofflon Science and Technology Group Co., Ltd. (SZ:300171) is a pioneering Chinese enterprise in the field of biotechnology, with a rich history of 30 years. With annual sales reaching 5.4 billion RMB in 2022 and a global workforce of 5,500 employees, Tofflon has established over 50 offices worldwide, embodying a globalized business and team.

Tofflon Life Sciences Co., Ltd., the flagship subsidiary within the group, plays a pivotal role in their portfolio. It focuses on the research and development of cutting-edge technologies in the biopharmaceutical and life science industries. As a strategic division Tofflon life science provides one-stop solutions and services that integrate bioprocessing equipment, core consumables like sterile bags, culture media, resins to further enquire and professionally.

- In the realm of cell therapy, we offer complete solutions for the preparation and production of immune cell pipelines, stem cell pipelines, tumor cell vaccines, and more.
- For gene therapy, we provide overall solutions for the research, development, and industrialization of nucleic acid drugs (mRNA/DNA) and viral vector drugs.
- In the field of biological sample banking, we conduct research and development of automatic sample storage management systems to provide comprehensive solutions for cell seed and tissue samples.
- In the consumables sector, we have developed a complete range of products including disposable bags (culture bags, mixing bags, storage bags), bio-reagents (culture media, cryoprotectants, Ficoll, growth factors), resin (GFC, AC, AEX, CEX, HIC, MMC), filtration (microfiltration, deep filtration, TFF, cassette), and hard packaging materials.
- We also focus on disinfection, offering comprehensive solutions for clean room disinfection, surface and external disinfection, infection control, terminal disinfection, and multi-drug resistant microorganism disinfection, ensuring effective environmental disinfection.

Leveraging Tofflon Group's extensive expertise in design, manufacturing, engineering construction, and after-sales service worldwide, Tofflon Life Sciences Division is committed to serving the biopharmaceutical industry with enhanced speed and professionalism.

# Stoste Subpackage System

The traditional stores-loading methods are mostly manual loading, which is complicated in operation, tedious in data recording and large in batch loading error. The system realizes high-speed loading in an automatic way, and the equipment is equipped with a weighing system at the same time, so as to ensure high precision of loading and realize full data management.

## Product specification

20mL~50L

## Application

- ✔ Separate the stock solution
- ✔ Culture-medium packing
- ✔ Buffer solution packing
- ✔ Virus vector packaging
- ✔ Cell therapy cell packaging

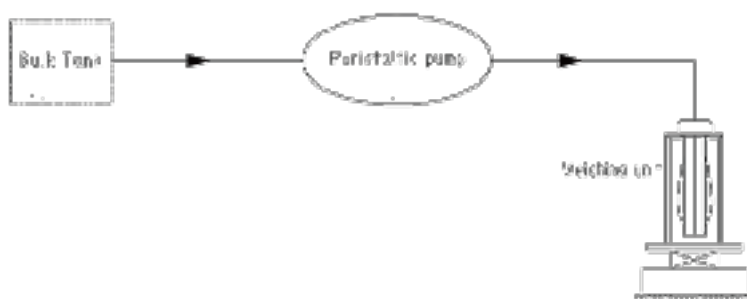


## Superiority

- ✔ Automation - Compared with the traditional packaging mode, the system realizes full automation, reducing the need for personnel
- ✔ High efficiency - can realize the function of multiple bags at the same time, improve the efficiency and accuracy of packaging
- ✔ Convenience - the whole sub-assembly system uses disposable consumables, convenient installation, no cleaning, sterilization verification
- ✔ Compliance -- in line with relevant GMP requirements and standards, precise control and data tracking of key packaging parameters, which can be connected with the company's EMS management system

## Working principle

- ✔ As a special equipment, the bulk liquor packaging system is mainly used for the bulk liquor processing. Through peristaltic pump, weighing unit to achieve quantitative, accurate packaging.



## ■ Technical parameter

Item	Description
Maximum unit volume	50L
Subassembly accuracy	≤±1%
Number of working stations	≤22
Subpackage system	Peristaltic pump quantitative packaging + weighing
Recommended operating temperature	18~26°C
Subassembly speed	2~3L/min
Protection class	IP44
power	≤2KW
Appearance material	304

## ■ System technical parameter

Standard	Parameters
Electrical standard	IEC60204-1
PLC	SIEMENS
HMI	SIEMENS Tablet computer
MCB miniature circuit breaker	ABB or Schneider
Ac contactor	ABB or Schneider
Electrical protection class	IP22
UPS	SANTAK
Software system	Master-4000
protection	Pressure alarm

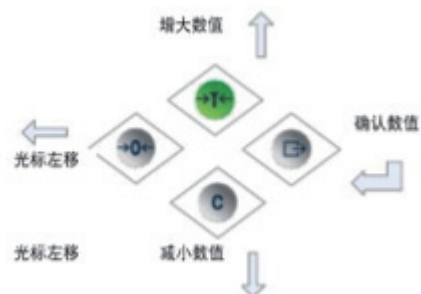
## ■ Software introduction



Login interface



Subassembly setup



Navigation key

## ■ System application

- ✓ Applicable to a variety of communication protocols
- ✓ Audit trail function
- ✓ Automatic data management
- ✓ Meet GAMP 5 and FDA CFR21 part 11 requirements
- ✓ Electronic signature support



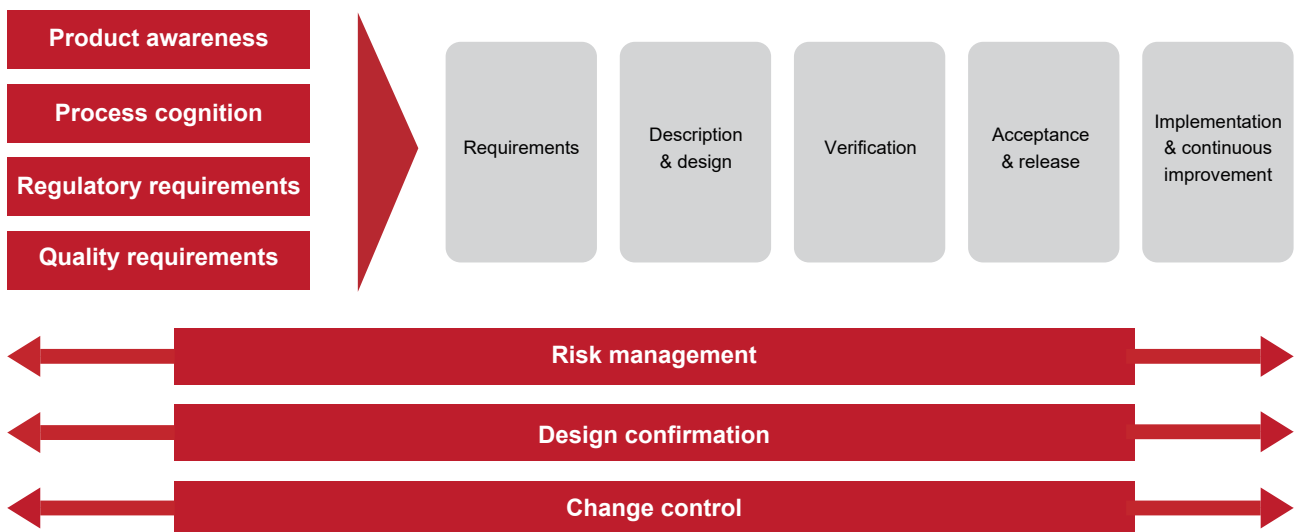
## Project Management

Three main factors determine the success of the project. Our organizational mode has been making constant update and improvement to enable you to fully achieve these goals. Through cooperation with us, you can minimize the direct resources required to manage the selection, purchase, installation, startup and verification of new production equipment.

- ✔ Reliable quality
- ✔ Short cycle
- ✔ Focus on cost

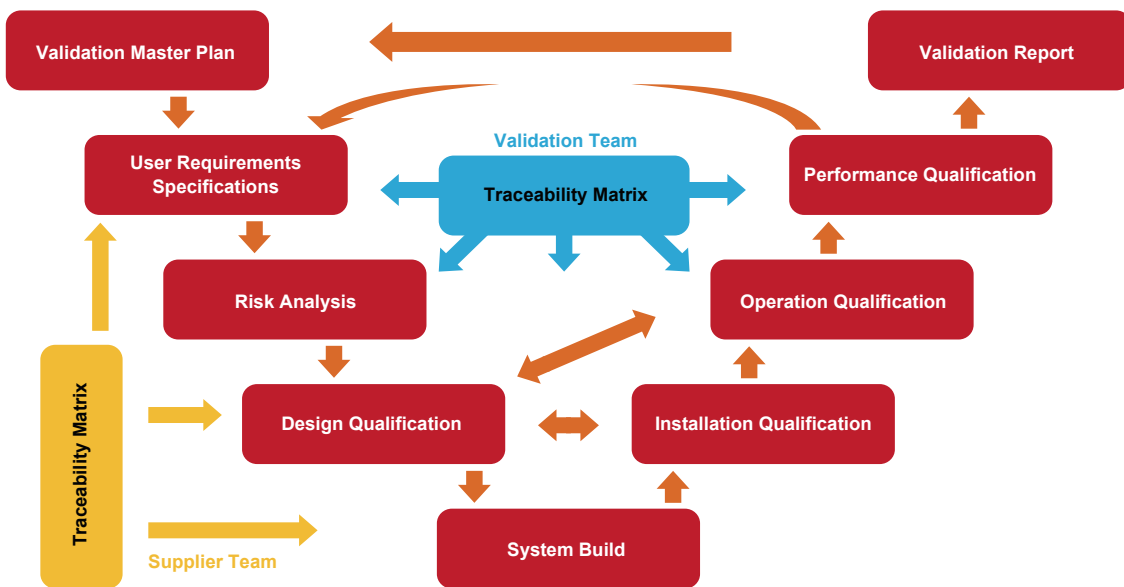


## Good Engineering Practice - GEP



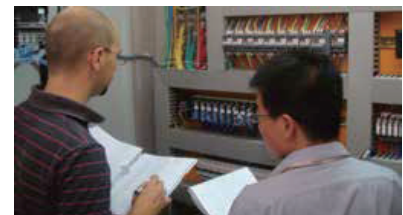


## Validation Support



## Verification Document System

- ✔ Complete document system
- ✔ Strict quality guarantee process
- ✔ Comply with cGMP confirmation scheme
- ✔ Ensure the stability and reliability of product quality





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