

THE PROCESS: FILL-STOPPER-CRIMP

Fully finish an empty container
(vial, cartridge, syringe or custom).

Process up to **360 containers per hour**.

LIQUID FILL-FINISH PLATFORM

Servo-controlled bottom-up filling
ensures precise liquid dosing while
minimising splash.

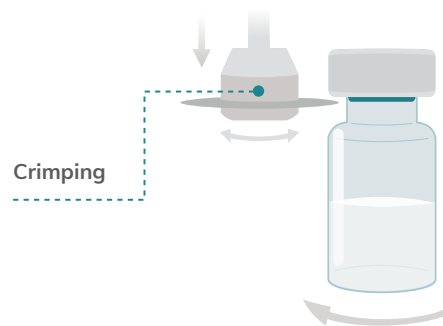
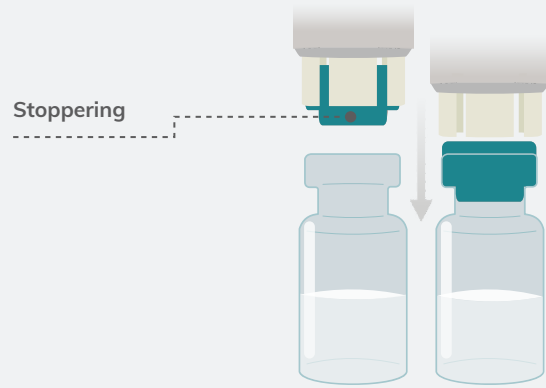
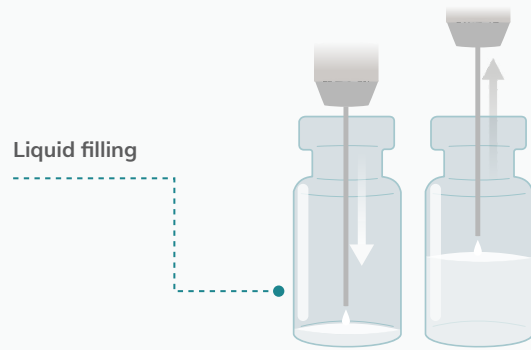
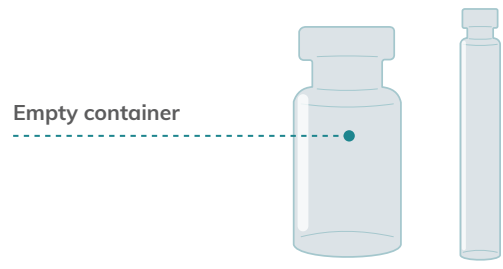
Integrated indexing mechanism
transfers vials smoothly to the stoppering
station post-fill.

Stoppering flexibility accommodates a range
of container closure systems.

ROTARY CRIMPER

Consistent, precise crimping
100% in-process stopper compression force
feedback enabling a validated stoppering
process.

Fully finished container.



SMART ENGINEERING. INNOVATION BEYOND AUTOMATION

3P innovation is the UK's leading supplier of aseptic fill-finish equipment, trusted by multinational clients to bring innovative products from concept to market. With over 1,000 years of combined engineering expertise, we provide end-to-end support for product development, production, and commercialisation.

pharma equipment

Pharma equipment is our unique portfolio designed to support you through the different phases of your product life cycle - from initial drug development, through clinical stage manufacturing and on to commercial scale production. With a focus on quality, our ranges have been developed to meet our core values of 'process understanding' and scalable methodology.

custom automation

Custom automation is our traditional area of business, working collaboratively with clients to support product and process innovation and development. We specialise in: liquid & powder fill-finish, aseptic manufacturing, device test & assembly and web-based material handling.

customer care

Our dedicated **customer care** department offers a comprehensive range of support services, backed by our machinery technicians and engineers. We provide ongoing support throughout the complete life-cycle of your machine.

BOOK A DISCOVERY CALL

Get in touch with one of our engineers to discuss your product, process or production needs.



www.3pinnovation.com enquiries@3pinnovation.com

3P innovation Ltd, Tournament Fields, Bosworth Avenue, Warwick, UK



DISCOVER RANGE

DISCOVER FILL-FINISH SYSTEM



Aseptic liquid filling, stoppering
and crimping of vials, cartridges,
syringes and custom containers.



www.3pinnovation.com

DISCOVER | EXPLORE | EVOLVE



LIQUID FILL-FINISH AND ROTARY CRIMPING PLATFORMS

We've simplified your aseptic fill-finish process into two GMP-ready, aseptic platforms.

Automate your aseptic process to reduce manual intervention, minimise contamination risk and accelerate your route to market.

Ideal for: **cell and gene therapies, early-phase clinical trials, personalised treatments and small-batch, high-value medicines.**

LIQUID FILL-FINISH PLATFORM



Accurate

Fully integrated peristaltic pump delivers zero-loss priming and closed-loop aseptic filling.

Flexible

Quick format, toolless changeovers, accommodating vials, syringes, and cartridges on the same platform.

Consistent

Integrated weigh cell allows for 100% in-process check weighing.



ROTARY CRIMPER

Vial capping is a critical step in drug manufacturing. The **Rotary Crimper's** highly precise, repeatable process guarantees consistent closure integrity with every vial.



Aseptic

Rotary crimping with zero relative motion minimises particulate generation for cleaner fills.

Versatile

Adjustable process parameters to suit vials, cartridges and custom containers.

Consistent

Integrated force transducer measures stopper compression force



TECHNICAL DETAILS

Aseptic-ready

Both units are aseptically designed, with GMP compliance.

Software

HMI touchscreen with 21CFR11 compliant software.

Containment

Compact platforms, designed for integration into biosafety cabinets, laminar flow booths and isolators.

ASEPTIC CONTAINMENT

The ultra-compact units fits inside your:

- Biosafety cabinet
- Laminar flow booth
- Isolator

All our core technologies are designed for **total life cycle** and can be used throughout all stages of drug development - from early-stage research to full-scale commercial production.

This means you won't need to develop and validate costly new technologies with each scale-up.



SCALABLE BY DESIGN

We've designed the core technologies in both units to scale seamlessly into roboFIL™, our advanced Robotic Fill-Finish Cell. This aseptic isolator, engineered by 3P innovation, is fully aligned with the latest Annex 1 revision, ensuring compliance with the most current regulatory standards.

- Compatible with any RTU-based product - **vials, syringes, cartridges, crimp caps and press-fit caps.**
- **Single-source approach.** Both isolator and process equipment are designed, manufactured, and integrated by 3P innovation. This simplifies controls, service and technical support.

