

DISCOVER RANGE



pharma  
equipment

# LIQUID FILL-FINISH PLATFORM

An ultra-compact and configurable aseptic filling platform with 100% check weighing and multi-format stoppering on a single machine. Now with an integrated precision pump and improved batch yields through intelligent filling control.



CUSTOM  
CONTAINERS

DISCOVER | EXPLORE | EVOLVE



ULTIMATE FLEXIBILITY IN ASEPTIC FILL-FINISH

Our ultra compact Liquid Fill-Finish Platform is designed to be used in research and small scale manufacturing settings

The technology is ideally sized to be used in existing isolators, RABS, biosafety cabinets or on the open bench.

SCALABLE

With the addition of automation, the Liquid Fill-Finish technology can be adopted through our larger Explore and Evolve Ranges for higher throughput fill-finish operations.



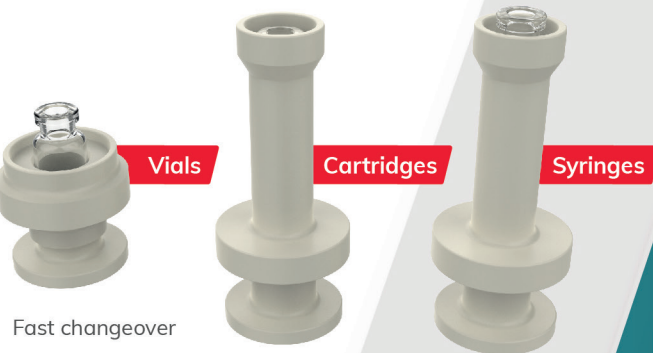
CORE TECHNOLOGY

KEY BENEFITS INCLUDE:

- Fill up to 360 containers/ hour
- Filling and stoppering of vials, cartridges, syringes and custom containers
- Most compact system available on the market, now with an on board pump
- Zero loss priming sequence available
- 100% weight verification and batch reporting
- Closed loop filling to maximise batch yield and compensate for tube wear
- Hygienic design for maximum cleanability
- 21CFR11 compliant software with recipe manager
- VPHP compatible



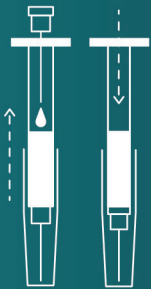
CONFIGURE YOUR OWN SYSTEM – FAST CHANGEOVER



The following table illustrates the processes available for various container types:

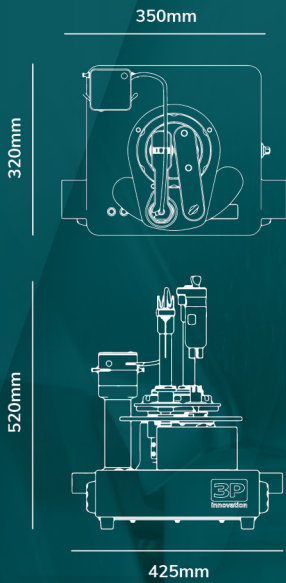
	100% weighing with intelligent control	Stopper/Cap Pick-And-Place	Vent Tube Stoppering	Vacuum Stoppering	Nitrogen Flush
Vials	✓	✓			✓
Cartridges	✓		✓	✓	✓
Syringes	✓		✓	✓	✓
Custom Containers	✓	✓	✓	✓	✓

Servo-controlled for precise bottom-up filling and stopper insertion



TECHNICAL DETAILS

DIMENSIONS

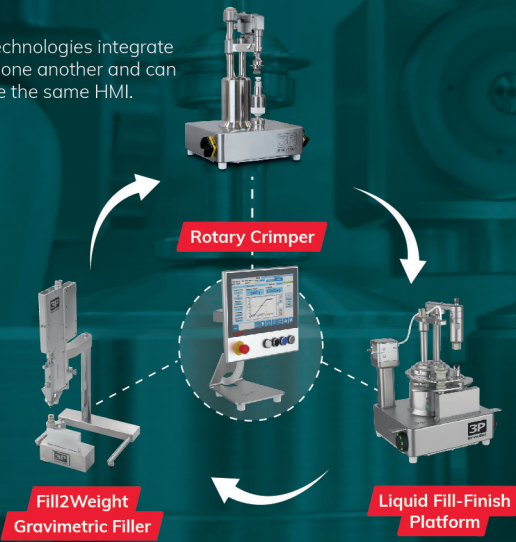


DOSE RANGE	<ul style="list-style-type: none"><li>• Dependent on pump selection:<ul style="list-style-type: none"><li>- Rotary Piston Pump: 0.03 - 50ml +</li><li>- Peristaltic Pump: 0.2ml minimum</li></ul></li></ul>
DOSE ACCURACY	Rotary Piston Pump +/- 0.1%* Peristaltic Pump +/- 1%* <small>*dependant on dose size and liquid properties</small>
LIQUID TYPES	<ul style="list-style-type: none"><li>• Aqueous and solvent-based solutions, suspensions</li><li>• High-viscosity liquids, gels, creams, syrups</li></ul>
POWER SUPPLY	110V AC @ 50Hz 13Amp or 110V AC @60Hz 15Amp
WEIGHT OF FILLING UNIT	Approx 43kgs (excluding control panel and touch-screen)

THE DISCOVER ECOSYSTEM

This Liquid Fill-Finish Platform is part of 3P pharma equipment's Discover Ecosystem, which includes our Rotary Crimper and Fill2Weight Gravimetric Powder Filler.

All technologies integrate with one another and can share the same HMI.



BENEFITS OF THE DISCOVER ECOSYSTEM

The use of our sterile fill-finish ecosystem accentuates the benefits of integrated quality and control systems.

- An integrated end-to-end fill-finish and crimping system for liquids and powders
- Quick and easy set up via a single HMI
- Centralised data storage - single batch report

STANDARD MACHINE CONFIGURATION

- |          |  |
|----------|--|
| INCLUDES | <ul style="list-style-type: none"><li>• Bottom up liquid filling</li><li>• Stopper pick &amp; place</li><li>• HMI stand and electrical cabinet</li></ul> |
|----------|--|

MODULE CONFIGURATION OPTIONS

PUMP	<ul style="list-style-type: none"><li>• Onboard precision peristaltic pump</li><li>• 100% in process check weigh</li><li>• Zero loss prime and closed loop filling</li><li>• Integration to external pump (e.g. rotary piston pump)</li></ul>
STOPPERING	<ul style="list-style-type: none"><li>• Vacuum and/or vent tube stoppering heads</li></ul>
NITROGEN FLUSH	<ul style="list-style-type: none"><li>• Flush and purge configurations available</li></ul>
CAROUSEL UPGRADE	<ul style="list-style-type: none"><li>• Increased throughput</li><li>• Batch processing</li></ul>
ADVANCED DATA MANAGEMENT	<ul style="list-style-type: none"><li>• Recipe manager</li><li>• Batch reporting</li><li>• User access control</li><li>• Data export</li></ul>
REMOTE DIAGNOSTICS	<ul style="list-style-type: none"><li>• Allows 3P innovation to communicate with machine remotely and support process development</li></ul>





3P innovation is a dynamic and successful engineering and automation company with a strong reputation for helping multi-national customers to develop, produce and commercialise new products quickly and cost effectively.

#### OUR EXPERTISE IS DIVIDED INTO TWO SUB-BRANDS:

Our **pharma equipment** brand covers our own equipment portfolio, which has been designed to support customers through the different phases of their product's lifecycle - from initial drug development, through clinical stage manufacturing and onto commercial scale production.

Focused on quality and reliability, each one of our ranges and their equipment have been developed to meet our core values of 'process understanding' and scalable methodology.



**Custom automation** is our traditional area of business, working collaboratively with our customers to support product and process innovation and development.

Our specialisms include design and development of equipment for assembly and test automation, web-based material handling and converting, powder and liquid filling, device filling and finishing and also specialist aseptic processing.