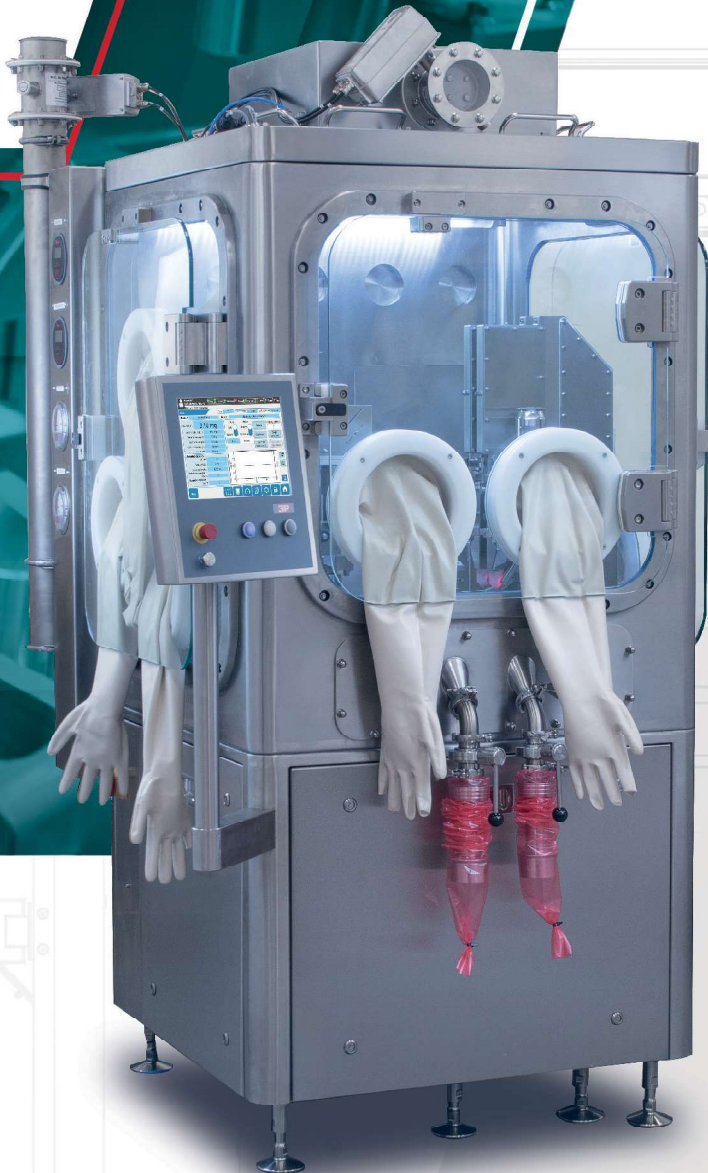


R500 & R1000 ROBOTIC CAPSULE AND DEVICE FILLER

The R500/R1000 Robotic Capsule Filler range integrates our award-winning **Fill2Weight** technology, eliminating 'formulation for filling' steps and reducing pre-clinical timescales, fast-tracking to Phase III.

A flexible system that fills powders with challenging properties, without having to change the physical hardware. No minimum batch size is required.



Fills vials, capsules, syringes, cartridges and custom containers on the same machine.



CUSTOM
CONTAINERS



BENEFITS AND APPLICATIONS

POWDER TYPES

Fills challenging powders, such as:

- Spray-dried and engineered particles < 5 microns
- Pure API
- Blends
- Lyophilised / Freeze-dried
- Delicate biologics
- Micro-spheres
- Solid dispersions / 'drug-in-polymer'
- Other custom powder types



KEY BENEFITS INCLUDE

- Integrates Fill2Weight technology
- Gentle powder handling, avoids compaction
- Precise, clean, repeatable filling
- 100% weight verification, 21CFR11 compliant
- Rapid changeover
- Scalable, high-speed gravimetric filling technology
- Integrated containment options
- Environment monitoring/control available
- Fully automated
- Fully cGMP compliant
- Device mode capability

TECHNICAL DETAILS

| | |
|-----------------|---|
| OUTPUT | R500: Up to 500 capsules/devices* per hour R1000: Up to 1000 capsules/devices* per hour <small>* Dependent on device design, dose weight and closure method</small> |
| DOSE ACCURACY | Range: sub 1mg to 5000g as standard* Accuracy: <3% RSD typical <small>*Lower and higher weights available on request</small> |
| HOPPER CAPACITY | 1g minimum* <small>*High capacity options available on request</small> |
| SUPPLIES | Electrical: 110V/230V AC 50Hz/60Hz 1-phase Pneumatics: 5.5 - 8.0 barG |
| APPLICATIONS | Formulation development Pre-clinical manufacturing Clinical production Commercial production |
| CAPSULE TYPES | HPMC, Gelatine, Pullulan |

FLEXIBLE FILLING PLATFORM

No minimum batch size. The gravimetric filling system allows you to fill cohesive or free flowing powders with just the change of recipe parameters. Using the same hardware reduces time and costs.

MULTI-STAGE IONISATION

Highly static powders and/or containers can be managed using an optional ionisation system.

SCALABLE



LAB → CLINICAL → COMMERCIAL

As the core filling technology, Fill2Weight can be easily scaled up to a commercial production solution with direct transfer of critical process parameters.

CUSTOMISED DESIGN OPTIONS

3P innovation can provide custom tooling for container handling, system mounting and alternative nozzle designs.

INTEGRATED CONTAINMENT OPTIONS

Containment isolator to enable filling of powders up to OEB5.

Temperature, relative humidity and pressure; control and monitoring.

Rapid transfer port options:

Integration with a transfer chamber, BETA containers, continuous liner, transfer mechanisms.

Safe-change HEPA-filtration.

QUICK PRODUCT CHANGEOVER

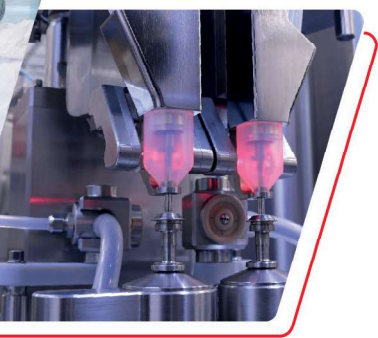
Removable change parts, designed for off-line cleaning.
Machine designed for clean-in-place.



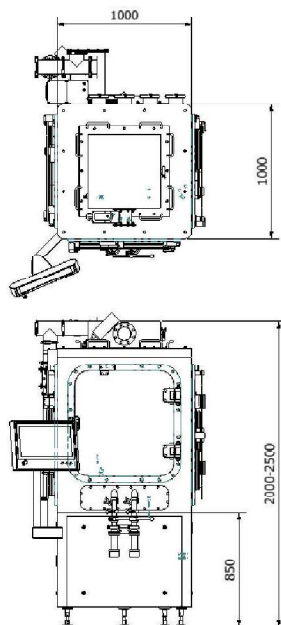
CONFIGURE YOUR OWN SYSTEM

| | R500 | R1000 |
|----------------------------------|-------------|-----------|
| STANDARD | | |
| Recipe Manager | ✓ | ✓ |
| Compact 1m x 1m footprint | ✓ | ✓ |
| 21CFR11 | ✓ | ✓ |
| F2W | X1 | X2 |
| Capsule Feeder | Single Lane | Twin Lane |
| High speed weigh cell | X1 | X2 |
| Guard system | ✓ | ✓ |
| OPTIONS | | |
| Containment | ✓ | ✓ |
| Environmental Control/Monitoring | ✓ | ✓ |
| Ionisation | ✓ | ✓ |
| Top-up powder feeder | X1 | X2 |
| Additional format sizes | ✓ | ✓ |
| Vacuum (CIP) | ✓ | ✓ |
| Height Check | ✓ | ✓ |
| Tamping station | ✓ | ✓ |
| Custom Tooling | ✓ | ✓ |
| Device mode isolator | ✓ | ✓ |
| RTP | ✓ | ✓ |
| Continuous liner | ✓ | ✓ |
| Transfer isolator | ✓ | ✓ |

DIMENSIONS



Compact 1m x 1m footprint. Mobile and easy to move between clean room and lab.



Shown here with optional transfer isolator ideal for secondary device assembly/disassembly operation.

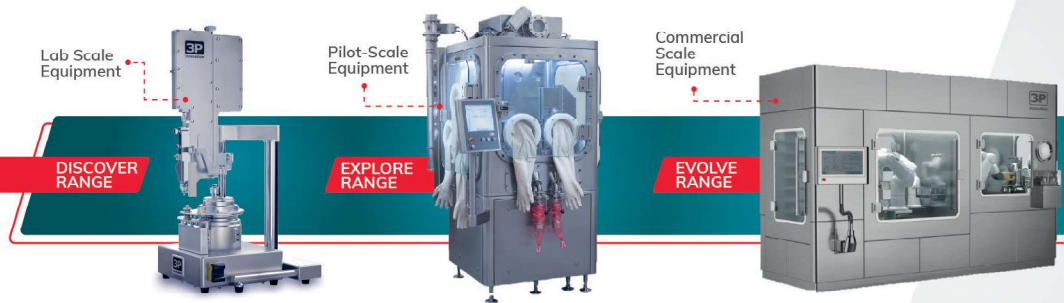


3P innovation is a dynamic and successful engineering and automation company with a strong reputation for helping multi-national customers to develop, produce and commercialise new products quickly and cost effectively.

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 activities, through clinical stage manufacturing and onto commercial scale production.

Focused on quality and production efficiency, 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.



Access our virtual showroom

SCAN ME



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