

VOLUMETRIC POWDER FILLERS

Biopharma Group is the exclusive Europe distributor of Kinematics & Controls Corporation, a world leader in the volumetric powder filler industry, applying their expertise in the field of engineering to the design of all of their equipment range.

Their range of compact modular powder filling systems have proved to be popular in environments where not only precise material dosing is required, but also areas where companies seek to make the process more efficient, maximising potential product throughputs.

Model 4400/VC

This semi-automatic, portable powder filling system is comprised of the Model 4400/VC console with integral pump, and at least one filling gun. Other features include:

- Requirement of one hand to operate the filling gun, dosing via foot pedal or button
- Accurate dosing from ~50mg to ~180g
- Forming part of both the Model 4400/TX & the Model 5500/TX (it is a modular system)
- Complete operating instructions with mechanical drawings

For its small size, the system can easily produce 3,000 - 4,000 (dependent on material) accurate and repeatable fills in an eight hour period and when adding an optional three-gun manifold and two additional filling guns, 10,000 precise doses can be turned out.

Easy to use, cost efficient and virtually maintenance free, the 4400/VC is the ideal system. To reach maximum filling potential use with the 4400/TX and 5500/TX models

Model 4400/TX

This fully automatic, rotary shuttle powder filler turns out low to moderate volume production runs of precisely metered powders. It is put together by the base machine and at least one shuttle disk assembly. The base machine includes:

- Vacuum console assembly (4400/VC)
- Rotary shuttle mechanism (4400/RS) - chamber size to be selected

The 4400/TX produces up to 9,000 accurate and repeatable dry fills in a single, eight hour period. It's easy to calibrate, 4 inch diameter which provides doses up to 40 gm, single cavity shuttle disk makes set up easy as well as changeovers and cleanups. Its integral hopper combined with the stirring mechanism improves efficiency and reduces filling time.





Model 5500/TX

The Model 5500/TX, rotary shuttle, vacuum/volumetric, powder filler is the first of its kind bench-top filler that has the capability of cleanly delivering accurate and repeatable small doses of dry powder in amounts of up to 180 gm. The system can be configured the way you need it with the following:

- Base machine or 4400/VC console(required)
- Tooling (at least one shuttle disk is required)
- Container platform assembly including product sensor
- Funnel assembly
- Column assembly
- Large product hopper
- Low product level sensor

Not only does the 5500/TX ensure six-sigma levels of repeat accuracy, it is also directly driven and completely automatic.

Other features include:

- Production rates of up to 25 fills/min
- PLC system with 5 user selectable modes of operation
- Modern drive technology
- A complete set of Assembly Drawings and electrical and pneumatic schematics
- Certified 316.S.S. Construction

Options for more challenging applications

- Funnel assembly
- Multiple gun manifold (for 4400/VC system)
- Vibratory feeder
- Balancer suspension for filling guns - fatigue support

Fully automated and customised systems

Custom-build systems and/ or fully automated production lines with container platforms and cappers can be designed to specific manufacturing requirements.

To request more details or discuss your requirements further, please contact our specialist at bps@biopharma.co.uk

