



Press Release

For immediate release

Dec aseptic fill/finish solutions

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Dec Group offers comprehensive filling lines and packaging solutions that extend from primary to secondary packaging and meet the need for aseptic filling of liquids and solids for pharmaceutical applications.

Dec's ability to provide end-to-end solutions from API manufacturing to primary packaging filling covers the complete range from R&D processes and small batches to large filling campaigns and include state of the art robotics for the filling and handling of complex delivery systems like pre-filled syringes (PFS).

Holistic approach

As a single source provider for applications “from the reactor into the syringe”, Dec offers a holistic approach to engineer comprehensive solutions for various fields such as small molecules, biologics, cell/gene therapies and other ingredients in the rapidly growing field of advanced therapy medicinal products (ATMP).

In the field of filling lines, Dec covers the whole “liquid to solid” spectrum with innovate solutions taking in three principal areas of expertise:

- **Microdosing** of powders in continuous process
- **Liquid handling** at accelerated speeds to highest standards of precision and accuracy
- **Filling Lines** that can accommodate aseptic and contained process needs within semi- or fully-automated environments, along with lyophilization loading and unloading features

Microdosing

To overcome the inherent limitations of gravimetric dosing systems when measuring small powder amounts, Dec has developed accurate volumetric dosing systems that can accurately dispense any kind of powder, including crystalline, lyophilized, round and fluffy substances.

The new Boma technology for filling liquids can accurately feed liquids without the need for a scale, thus allowing operation in unstable environments and filling processes in parallel. Another main advantage is the absence of seals which is synonym with maintenance-free operation and ease of cleaning. These dosing systems can be combined with Restricted Access Barrier Systems (RABS) and isolators to provide total containment under strictly controlled conditions.

All the systems can be delivered with dynamic, on the fly volume change options for flexibility and patient centric manufacturing.

Liquid Handling

Dec's liquid handling and filling solutions encompass various techniques and technologies, including:

- Boma technology
- Net weight filling
- Time-pressure filling
- Peristaltic pump filling
- Rotary piston pump filling

The choice of which of these solutions is most appropriate will need to take into account the many factors that define the product and application in question to ensure proper operation and minimum maintenance demands. Dec's Boma technology (patent pending) is designed to provide an effective solution to work around speed, accuracy and flexibility problems encountered with current pumps. Combining pressure and vacuum, Boma systems can deliver accurate doses of all components of a recipe within a few seconds, boosting production rates. The absence of an actual pump (with seals and chambers) also eases cleaning to accommodate quick product changes.

Filling Lines

Dec offers a range of primary packaging solutions for aseptic filling of vials, syringes, bottles and cartridges as well as ready to use delivery systems such as DCS Dual Chamber.

These highly accurate, (semi-) automated filling methods for low or high production volumes can eliminate costly or hazardous overfilling or spillage and can be precisely tailored to specific customer needs.

The range of solutions for sterile and highly contained liquids and/or solids filling includes:

- Semi-automatic to fully automated filling lines
- Modular filling lines for R & D and clinical trials
- Aseptic and contained filling of various primary packaging
- Pharmaceutical lyophilization loading equipment solutions

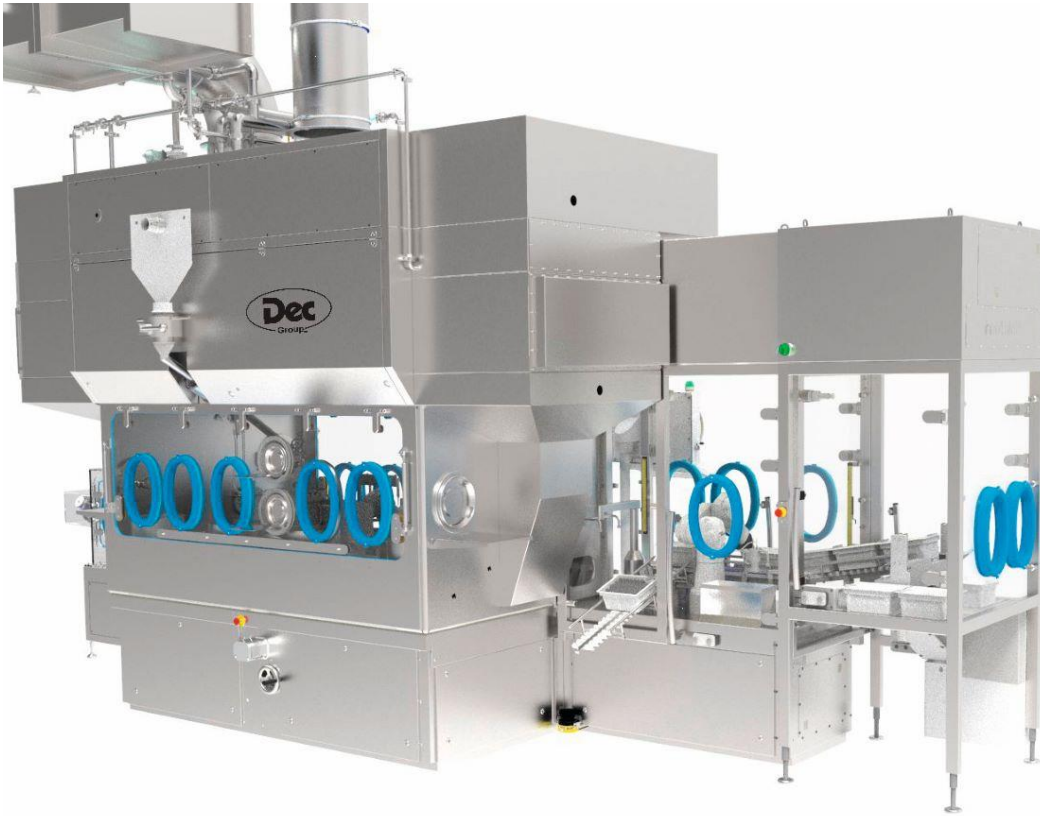
Dec Group

Dec is a leading global provider of contained powder handling systems and is recognized as a world-leading expert in process containment technologies. It has been supplying the pharmaceutical, chemical, food and cosmetic industries for more than 30 years.

Headquartered near Lausanne, Switzerland, Dec Group has a global presence with subsidiaries and agents in more than 30 countries including subsidiaries in the UK, Ireland, Germany, Poland, the Netherlands, India, China and the USA.

In excess of 600 companies worldwide have successfully integrated more than 9000 Dec systems into their production sites. These include a wide range of patented products that enhance safety, hygiene, containment, reliability and productivity in powder handling.

Dec offers innovative approaches across the range of powder handling and process containment applications, including transfer, micronizing, filling/emptying, sampling, blending, dosing, aseptic solutions, milling, isolators and advanced cleaning (CIP/SIP) features.



High containment filling isolator for dual chamber prefilled Syringes



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