



The Pharma Division of Heumann PCS, part of the French Fareva Holding, provides contract-manufacturing services to more than 50 customers worldwide, including a number of the top ten pharmaceutical companies. It is known for its first class facilities, technologies and experience in the manufacturing of solid dosage forms containing highly potent or toxic compounds.

To protect workers from hazardous drugs during manufacturing, and yet allow high flexibility, is a big technological challenge for equipment manufacturers, as well as for pharmaceutical companies. To meet such requirements, Heumann PCS looks for equipment with special features to ensure that manufacturing operations are in compliance with environmental, health and, of course, Good Manufacturing Practice (GMP) regulations. The new **GKF HiProTect** capsule-filling machine delivers such features, being engineered to satisfy

- 1 **GKF HiProTect** undergoing the cleaning process
- 2 Additional peripheral equipment with containment construction
- 3 Heumann PCS in Feucht (Germany)

One step ahead of the market: GKF HiProTect meets the needs of Heumann PCS

GMP requirements and safely processing potent compounds. It features an innovative, integrated isolation system developed by Bosch Packaging Technology.

The **GKF HiProTect** minimizes the risk of contamination by eliminating the contact between an operator and potent substances and also removes the need for expensive and restrictive air suits, masks and other safety equipment. Its advanced powder dosing station gives a highly accurate fill weight, while its innovative design helps avoid product loss and provides easy accessibility to the station.

HiProTect caters to Heumann PCS's special needs in two ways. On one hand, its modular design emphasizes flexibility, so it can switch between fill combinations or add capacity quickly. This provides flexibility for a wide range of filling combinations, including powder, tablets, pellets and liquids. It provides "containment without compromise", allowing opening capsules, check-weighing and

filling as an integral process. On the other hand, the clear construction of all stations makes the entire system easy to clean; it has its own wash-in-place (**WIP**) function for product contact parts and is also easy to clean from outside.

"We are glad that Bosch Packaging Technology accepted the technological challenge and developed the **GKF HiProTect** capsule filling machine. In order to serve the needs of our clients as well as to guarantee the safety of our workforce we just bought its prototype. The combination of flexibility, containment and an easy-to-clean machine design is exactly what we need for capsule manufacturing under high containment conditions," said Mr. Weigelt, project manager at Heumann PCS. "We are very impressed at Bosch's project management, professional attitudes and solution-oriented research and development, as well as its willingness to accept the special requirements that we need for our customers."

The **GKF HiProTect** capsule-filling machine not only provides Heumann PCS with solutions, it is a step ahead of the market trend in answering the growing need of pharmaceutical researchers and producers to fully isolate operators from active substances during operation, maintenance, and cleaning. Through several key philosophies in its design – containment, flexibility, quality controls, cleaning, and accessibility – **HiProTect** provides a quantum leap for manufacturers and developers to meet the rising challenges in the marketplace beyond simply adding isolators to a filling line.

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